| Descriptor Commission_Decision_GES_c | Commission_Decision_indicat or_or_indicator-class | Component | Proposed_Indicator_Name | Indicator_Metric | Proposed_Target | Target_relevance | Baseline_used | New_or_existing_target | development_stage_of_indicat or_and_target | Source | Additional_monitoring_required | Existing_Monitoring_Scheme_or_data_source | Baseline-setting_approach | Target-setting_approach | Evidence-base_for_indicator_DETAILS |
|--------------------------------------|--|-----------|--|--|--|--|--|------------------------|---|--------|--|--|-----------------------------|--|--|
| 1 1.1 Species distribution | 1.1.1 Distributional range | Birds | Distributional range of breeding seabirds | Number /location of breeding seabirds colonies | Compared to baseline range, no loss of species from any existing underministrative sense, i.e., country in England, Walles & Northern Ireland; and regions in Scotland; | Applicable to all breeding seabird species in all relevant functional groups | set for each species based on expert judgement of when population distribution and population size were considered to be least negatively impacted by human activities. | New Target | defined by 2012 & operational | | Need to ensure regular complete breeding census (every 10-15 years) | Seabird Monitoring Programme & Breeding Bird Atlases of Britain and Ireland | B) Baseline set in the past | Target set as deviation from baseline | Past performance of previous surveys (e.g. Mitchell et al. (2004) Seabird Populations of Britain & Ireland. T & ADPayser, 511pp.) |
| 1 1.1 Species distribution | 1.1.1 Distributional range | Birds | Distributional range of non- breeding waterbirds | Number /location of inshore sites occupied by non-breeding waterbird species | Range relative to baseline has not discreased | Applicable to all non-breeding waterbird species in inshore waters (two functional groups inshore benthic feeders, inshore pelagic feeders, plus roosting gulls) | set at the beginning of the time series. | New Target | by 2014 operational by 2018 | | Monitoring of Inshore aggregations of scaduck, divers & grebes by UK Seabird & Cetacean Monitoring Project (under development). Probably requires increase in frequency of Winter Gull Roost Survey from decadal to annual. | Winter Gull Roost Survey | B) Baseline set in the past | Target set as deviation from baseline | No time series data yet available. |
| 1 1.1 Species distribution | 1.1.1 Distributional range | Birds | Distributional range of non- breeding shorebirds | Number /location of coastal 10km squares occupied by non- breeding shorebird species | Compared to baseline range, no loss of species from any existing administrative areas (e.g. county in England, Wales & Northern Ireland; and regions in Scotland) | Applicable to all species of intertidal benthic feeders (i.e. non-breeding shorebirds) | set for each species based on expert judgement of when population distribution and population size were considered to be least negatively impacted by human activities. | New Target | defined by 2012 & operational by 2014 | | Gap filling for Wetland Bird Survey and Non- Estuarine Wader Survey, and increase frequency of the latter. | Wetland Bird Survey, Non- Estuarine Wader Survey & Breeding Bird Atlases of Britain and Ireland | B) Baseline set in the past | Target set as deviation from baseline | Wetland Bird Surveys Annual reports - see http://www.bto.org/volunteer- surveys/webs/publications/annual-reports. Indicator needs further work to define: surveys are known to have gaps. Need GIS file of MSED area to select relevant data for non-transitional waters. |
| 1 1.1 Species distribution | 1.1.1 Distributional range | Birds | Distributional range of coastal- breeding waterbirds | Number /location of coastal 10km squares occupied by breeding waterbird species | Compared to baseline range, no loss of species from any existing administrative areas (e.g. county in England, Wales & Northern Ireland; and regions in Scotland) | shoreline and dependant on intertidal and inshore areas for feeding | to be least negatively impacted by human activities. | New Target | defined by 2012 & operational by 2014 | | Sap filling for Wetland Bird Survey and Non- Estuarine Wader Survey, and increase frequency of the latter. | Wetland Bird Survey, Non- Estuarine Wader Survey & Bird Atlases of Britain and Ireland | B) Baseline set in the past | Target set as deviation from baseline | Further work is needed to define indicator: need disfile of MSFD area to select relevant data for non-transitional waters. |
| 1.1 Species distribution | 1.1.2 Distributional pattern within range | Birds | Distributional pattern of breeding seabirds | Number /location of breeding seabirds colonies | Dostribution range within each county/region has not changed by more than +/-10% | Applicable to all breeding seabird species in all relevant functional groups | set for each species based on expert judgement of when population distribution and population size were considered to be least impacted by human activities. | New Target | defined by 2012 & operational by 2014 | | Need to ensure regular complete breeding census (every 10-15 years) | Wetland Bird Survey, Non- Estuarine Wader Survey & Bird Atlases of Britain and Ireland | 8) Baseline set in the past | Target set as deviation from baseline | Past performance of previous surveys (e.g., Mitchell et al. (2004) Seobird Populations of Britoin & Ireland. T. & ADPoyser, 511pp.) |
| 1 1.1 Species distribution | 1.1.2 Distributional pattern within range | Birds | Distributional pattern of non- breeding waterbirds | loss of habitat (displacement) | within each UK regional sea < XIS modelled 1km square with loss of habitat (displacement) | Applicable to all non-breeding waterbird species in inshore waters (two functional groups inshore benthic feeders, inshore pelagic feeders, plus roosting gulls) | set for each species based on expert judgement of when population distribution and population size were considered to be least impacted by human activities. | New Target | by 2014 operational by 2018 | | Monitoring of inshore aggregations of seaduck, divers & grebes by UK Seabird & Cetacean Monitoring Project (under development). Probably requires increase in frequency of Winter Gull Roost Survey from decadal to annual. | Winter Gull Roost Survey | B) Baseline set in the past | Target set as deviation from baseline | |
| 1 1.1 Species distribution | 1.1.2 Distributional pattern within range | Birds | Distributional pattern of seabirds at sea | t % of modelled 1km squares with loss of habitat (displacement) | within each UK regional sea < XVI modelled 1km square with loss of habitat (displacement) | Applicable to all seabird species in all functional groups | set for each species based on expert judgement of when population distribution and population size were considered to be least impacted by human activities. | New Target | operational by 2018 | | Monitoring of seabirds at sea by the UK Seabird & Cetacean Monitoring Project (under development) | | B) Baseline set in the past | Target set as deviation from baseline | No time series data yet available. |
| 1 1.1 Species distribution | 1.1.2 Distributional pattern within range | Birds | Distributional pattern of non- breeding shorebirds | Number /location of coastal 10km squares occupied by non- breeding shorebird species | Distribution range within each county/region has not changed by more than +/- 10% | Applicable to all species of intertidal benthic feeders (i.e. non-breeding shorebirds) | set for each species based on expert judgement of when population distribution and population size were considered to be least impacted by human activities. | New Target | defined by 2012 & operational by 2014 | | Gap filling for Wetland Bird Survey and Non- Estuarine Wader Survey, and increase frequency of the latter. | Wetland Bird Survey, Non- Estuarine Wader Survey & Bird Atlases of Britain and Ireland | B) Baseline set in the past | Target set as deviation from baseline | Wetland Bird Surveys Annual reports - see http://www.bto.org/volunteer- surveys/webs/publications/annual-reports. Indicator needs further work to define: surveys are known to have gaps. Need Gis file of MSFD area to select relevant data for non-transitional waters |
| 1 1.1 Species distribution | 1.1.2 Distributional pattern within range | Birds | Distributional pattern of coastal- breeding waterbirds | Number /location of coastal 10km squares occupied by breeding waterbird species | Distribution range within each county/region has not changed by more than +/- 10% | shoreline and dependant on intertidal and inshore areas for feeding | to be least impacted by human activities. | New Target | defined by 2012 & operational by 2014 | | Sap filling for Wetland Bird Survey and Non- Estuarine Wader Survey, and increase frequency of the latter. | Wetland Bird Survey, Non- Estuarline Wader Survey & Bird Atlases of Britain and Ireland | B) Baseline set in the past | Target set as deviation from baseline | Further work is needed to define indicator: need GIS file of MSFD area to select relevant data for non-transitional waters. |
| 1 1.2 Population size | 1.2.1 Population abundance | Birds | Species-specific trends in relative breeding abundance | annual abundance of breeding birds expressed as a percentage of baseline | Spacies-specific annual abundance should be more than 70% of the baseline in marriee bird species that Izy more than one egg | egg and where population size is monitored regularly. | by human activities; | Existing Target | defined by 2012 & operational by 2014 | OSPAR | sixting schemes for breeding aggregations of cabird, which already delivers specific trends that can be used in the indicator. New indicators could be produced for waterbrad species breeding close to the shreeline and dependant on intertidal and inhorse areas for feeding. but would require gap filling for feeding, but would require gap filling for Wettand Bird Survey and Non-Estastrine Wade Survey, and increase frequency of the latter. | Programme Wetland Bird Survey, Non- Estuarine Wader Survey & Bird Atlases of Britain and Ireland | B) Baseline set in the past | Target set as deviation from baseline | coak et al. (2011 - Mar fcold Prog Ser, In press) looked accuracy and power to detect change of species specific trends in breeding seabled numbers produced by the Sabalfor Monitoring Programme. They assessed accuracy and power for trends at scales of UK, CSPAR regions and UK Regional Seac. |
| 1 1.2 Population size | 1.2.1 Population abundance | Birds | Species-specific trends in relative breeding abundance | annual abundance of breeding birds expressed as a percentage of baseline | Species-specific annual abundance should be more than 80% of the baseline in marine bird species that lay only one egg | Applicable to marine bird species from all functional groups, that lay one egg and where population size is monitored regularly. | baseline set for each species based on expert judgement of when population levels were considered to be least impacted by human activities; | Existing Target | defined by 2012 & operational | OSPAR | Existing schemes for breeding aggregations of seabird, which aiready delivers species specific trends that can be used in the indicator. | Seabird Monitoring Programme | B) Baseline set in the past | Target set as deviation from baseline | Cook et al. (2011 - Mar Ecol Prog Ser, In press) looked accuracy and power to detect change of species specific trends in breeding seabird numbers produced by the Seabird Monitoring Programme. They assessed accuracy and power for trends at scales of UK, OSPAR regions and UK Regional Seas. |
| 2 1.2 Population size | 1.2.1 Population abundance | Birds | Species-specific trends in relative breeding abundance | annual abundance of breeding birds expressed as a percentage of baseline | Species operfit annual abundance should be less than 110% of the busseline in marine bird perces that depredate other birds and benefit from anthropogenic food sources. | Applicable to Great Skua, Grea Black-backed Gull, Herring Gull and Lesser Black-backed Gull | when population levels were considered to be least impacted by human activities; | Existing Target | defined by 2012 & operational by 2014 | OSPAR | Existing schemes for breeding aggregations of seabird, which already delivers species specific trends that can be used in the indicator. | | B) Baseline set in the past | Target set as deviation from baseline | Cook et al. (2011 - Mar Ecol Prog Ser, In press) looked accuracy and power to detect change of species specific trends in breeding seabird numbers produced by the Seabird Monitoring Programme. They assessed accuracy and power for trends at scales of UK, OSPAR regions and UK Regional Seas. |
| 1. 2 Population size | 1.2.1 Population abundance | Birds | Species specific trends in relative non-breeding abundance | annual abundance of non- breeding birds expressed as a percentage of baseline | Society specific annual abundance is within 47-4% of the baseline. Target levels to be set once a monitoring programme is in Place) | Potentially applicable to all non-breeding seabird and waterbird species in all functional groups. | Species-specific abundance at the start of any new monitoring programme. | New Target | operational by 2018 | | sacting schemes for non-hereding geographics of shorters, which already deliver species specific fermids that can be used in the indicator. Additional monitoring of non-bredding aggregations of olivers, seadurk and offstore absolute required. Monitoring of inshore benthic feeders speciadoky UK Sacidie Castean Monitoring Project (under development). | Wetland Bird Survey, NEWS, WindS | B) Baseline set in the past | Target set as deviation from baseline | al non-breading aggregations of shoreterick withdrauld filled sturyed, Annual reports - see http://www.bibo.org/volunteers - see http://www.bibo.org/volunteers - see http://www.bibo.org/volunteers - see known to have gaps. Need old fill ed http://www.see known to have gaps. Need old fill ed http://www.see known to have gaps. Need old fill ed http://www.see known to have gaps. Need old fill ed http://www.see known to have gaps. Need old fill ed http://www.see known to have gaps. Need old fill ed http://www.see known to have gaps. Need old fill ed http://www.see known.see known to have gaps. Need old fill ed http://www.see known.see kn |

| 1 | 1.3 Population condition | 1.3.1 Population demographic characteristics | Birds | Annual breeding success of kitthwakes | annual mean breeding success (no. offspring per pair) of kittiwake at sampled colonies | the level expected in the prevailing dimitatic conditions (defined by local ISST in writter 2 years previous writter) in three years out of size. | breeding seabirds to changes in food availability, indicator will be applicable to other species that rely on small shoaling fish (e.g. sandeels). | SST (in winter 2 years previous | New Target | defined by 2012 & operational by 2014 | | None | Seabird Monitoring Programme | Aii) Modelling of reference conditions | Target set as deviation from baseline | Furnish & Tabler (2000. Mer for all reg for 200 233—344 applied refer to deretify species 200 233—344 applied refer to deretify species 200 233—344 applied refer to deretify species to the most sensitive seabord species breeding in the UV. register of the European Control of the Control species breeding in the UV. register of the Control of the Control species applied to the Control of the Control species species (1900 per sense) to the Control of species applied to the Control of the Control of the Control of the Control of the Control of the Species (1900 per sense) the Control of t |
|---|---|---|--------|--|--|--|--|---|-----------------|--|-------|--|--|--|---|--|
| 1 | | 1.3.1 Population demographic characteristics | Birds | Breeding failure of seabird species sensitive to food availability | (breeding success < 0.1 chicks per nest) per year | Seas than 5.15% of colonies failing per year in more than three out of six years. | species that are notably sensitive to food availability | | New Target | defined by 2012 & operational by 2014 | | None | Seabird Monitoring Programme | NA. | baseline) | Species for this indicator should be sensitive to changes in flood uponly-vie of-mores Sc Tasker changes in flood uponly-vie of-mores Sc Tasker 2000. Mar ficel Prog Ser 2022: 533-549 who pappled contrates to desired hyde most sensitive species. Cook et al. (2011 - Mar Ecol Prog Ser / In press) tooked accuracy and power to detect change of success specific terrois in saudior breeding success specific terrois in saudior breeding success produced by the Scalader Monitoring or the second of |
| 9 | .3 Population condition | 1.3.1 Population demographic characteristics | Birds | Seabird adult survival | Annual adult survival rate | Estimated annual survival should not, as a result of anthropogenic mortality, fall below levels that would prevent targets for 1.2 population size from being achieved. | Applicable to breeding seabird species that suffer increased mortality as a result of anthropogenic pressure (e.g. B) catch, persecution, pollution | Modelled from sustainable population level to meet targets under 1.2 | New Target | operational by 2018 | | Current INCC/BTO project to scope the required expansion of survival monitoring within the Seabird Monitoring Programme and UK & Ireland Ringing Scheme. | Seabird Monitoring Programme and UK & Ireland Ringing Scheme | Aiii) Modelling of reference conditions | Absolute Value (target not set a baseline) | Further analyses required to determine for which species, annual survival rates can be estimated with greatest accuracy, |
| 1 | L3 Population condition | Pressure indicator | Birds | Non-native mammal presence on island seabird colonies | Number key island colonies where non-native mammal species are present | No non-native mammals on key island seabird colonies | etc) All key islands identified by Ratcliffe at al. (2009 - ibis 151, 699–708). | | New Target | defined by 2012 & operational by 2014 | | Monitoring required at 16 rat-free key colonies identified in Ratcliffe at al. (2009 - 16is 15.1, 699-708) and subsequently at any other island colony where rats or other non-native mammals are eradicated. | All but two colonies are SPAs for burrow-nesting seabirds but only 4 are currently monitored for rat presence. | NA | Absolute Value (target not set a baseline) | t Priority Islands listed in Ratcliffe at al. (2009 - Ibis 151, 699–708). |
| | 3 Population condition | Pressure Indicator | Berds | Mortality of eablerish from fishing (bycatch) and ageacufture | Number of sashiris killed by commercial fishing and by aquaculture | Estimated mortality as a result of finitely byeath and agasculture management does necessal level that would prevent targets for 1.2 projudation size from being achieved. | commercial fiching and by being entangled and Milled aquaculture. | Modelited from sustanable population level to meet targets under 1.2 | New Target | operational by 2018 | | Expansion of monitoring on commercial received (optital and frequency) and at fish farm. | isolatinis are recorded by the Catacana Ryscald Montal Catacana Ryscald Montaloring Scheme, but the survey is not displayed to systematically measure isolation of the control of the catacana Ryscald Catacana Ca | Aiii) Modelling of reference conditions | Target set as deviation from baseline | Northern Animars appear to be particularly associated in Animars appear to the particularly associated to entering the control of the control |
| 4 | er unit biomass) of key | 4.1.1 Performance of key predator species using their production per unit biomass (productivity) | Bierds | Annual breeding success of httiwakes | annual mean breeding success (no. offspring per pair) of lettiwake at sampled colonies | the level expected in the prevailing climatic conditions (defined by local | Ottiwakes are considered amongst most sensitive of UK breeding seabirds to changes in food availability. Indicator will be applicable to other species that rely on small shoaling fish (e.g. sandeels). | Regression of annual Kittiwake breeding success against local SST (le winter 2 years previous winter). | New Target | defined by 2012 & operational | | None | Seabird Monitoring Programme | Aiii) Modelling of reference conditions | Target set as deviation from baseline | Furness & Tabler (2000. Mar Ecol Prog Ser 225. 355.364) applied refers to identify species that James most sensitive to changes in food supply and conditional trainable to the most sensitive sealors' species been given and the trainable of the total Cook et al. (2011. After Cook et al. (2011. Af |
| 4 | i.3 Abundance/distribution of every trophic groups/species | 4.3.1 Abundance trends of functionally important selected groups/species | Birds | Species-specific trends in relative breeding abundance | annual abundance of breeding birds expressed as a percentage of baseline | Species specific annual abundance abundé be more than 70% of the baselle in marine bidé species that by more than one egg | Applicable to marine bird species from all functional groups, that but wore than one egg and where population size is monitored regularly. | baseline set for each species based on expert judgement of when population kevels were considered to be least impacted by human activities; | Existing Target | defined by 2012 & operational by 2014 | OSPAR | Existing schemes for breeding aggregations of seability, which already delivers species specific trends that can be used in the indicator. New indicators could be produced for waterbrid species breeding close to the shoreline and dependant on intertisal and inhorae reass for feeding. but would require gap filling for Wettland Bird Survey and Non-Estuarine Wade Survey, and increase frequency of the latter. | Programme Wetland Bird Survey, Non- Estuarine Wader Survey & Bird Atlases of Britain and Ireland | B) Baseline set in the past | Target set as deviation from baseline | Cook et al. (2011). Must facil Prog Ser, in press) booked saccinary and power to detect change of species specific trends in breeding seabled numbers produced by the Seabled Monitoring Programme. They assessed accuracy and power for trends at scale of UK, OSPAR regions and UK Regional Seas. |
| 4 | 3.3 Abundance/distribution of the trophic groups/species | 4.3.1 Abundance trends of functionally important selected groups/species | Birds | Species-specific trends in relative breeding abundance | annual abundance of breeding birds expressed as a percentage of baseline | Species-specific annual abundance should be more than 80% of the baseline in marine bird species that lay only one egg | Applicable to marine bird species from all functional groups, that lay one egg and where population size is monitored regularly. | baseline set for each species based on expert judgement of when population levels were considered to be least impacted by human activities; | Existing Target | defined by 2012 & operational | OSPAR | Existing schemes for breeding aggregations of seabird, which already delivers species specific trends that can be used in the indicator. | Seabird Monitoring Programme | B) Baseline set in the past | Target set as deviation from baseline | Cook et al. (2011 - Mar Ecol Prog Ser, in press) looked accuracy and power to detect change of species specific trends in breeding seabild numbers produced by the Seabird Monitoring Programme. They assessed accuracy and power for trends at scales of UK, CSPAR regions and UK Regional Seas. |
| 4 | | functionally important selected groups/species | Birds | Species-specific trends in relative breeding abundance | annual abundance of breeding birds expressed as a percentage of baseline | from anthropogenic food sources. | Applicable to Great Skua, Great Black-backed Gull, Herring Gull and Lesser Black-backed Gull | baseline set for each species based on expert judgement of when population levels were considered to be least impacted by human activities; | Existing Target | by 2014 defined by 2012 & operational by 2014 | OSPAR | Existing schemes for breeding aggregations of seabird, which already delivers species specific trends that can be used in the indicator. | | B) Baseline set in the past | Target set as deviation from baseline | Cook et al. (2011 - Mair Ecol Prog Ser, In press) looked accuracy and power to detect change of species specific trends in breeding seabird numbers produced by the Sabird Monitoring Programme. They assessed accuracy and power for trends at scales of UK, OSPAR regions and UK flegional Seas. |
| 4 | Abundance/distribution of ey trophic groups/species | 4.3.1 Abundance trends of functionally important selected groups/species | Birds | Species-specific trends in relative nen-treeding abundance | annual abundance of non- breeding birds expressed as a percentage of baseline | Species specific annual abundance is within 1/ vik of the baseline. Traget levels to be set once a monitoring programme is in Place) | Potentially applicable to all non-breeding seabird and waterbird species in all functional groups. | Species specific abundance at the start of any new monitoring programme. | New Target | operational by 2018 | | sating schemes for non-breeding spregations of abroticity, which airmody deliver sposses specific fronds that can be sead in the indicator, additional monitoring of non-breeding aggregations of divers, seaducks and officine seabulist required. Monitoring of inshore bentilis refedent specialcy life Sealer (& Eccean Monitoring Project (under development). | Wetland Bird Survey, NEWS, WindS | B) Baseline set in the past | Target set as deviation from baseline | In one breading aggregations of boreletrick Westerland files Survey-Amusal reports - see http://www.bloc.org/veluntareports - see http://www.bloc.org/veluntareports - westerland reports - wednesser needs further work and files or Mort - westerland reports - wednesser needs further work and files or Mort - westerland reports - wednesser needs further work of the file of the fi |

| 1 1. | Species distribution | 1.1.1 Distributional range | Marine Mammals | Distributional range of Harbour seal | change in presence at extremities of range in UK water | No decrease in current (baseline) range ss | harbourseal | The Habitats Directive baseline (data from 1988-1994) | Existing Target | operational now | Habitats Dir | Monitoring of core areas is already undertake through the seal monitoring programme base at SMRU. May need some augmentation on peripheral areas (south and west England, Wales), Funding comes from a variety of non- | n UK Seals monitoring d programme | B) Baseline set in the past | Target set as deviation from baseline | The distributional range of harbour seal haulouts has been regularly monitored for core areas since 1988. A time series of data for this metric already exists. |
|-------|----------------------|--|----------------|--|--|--|------------------------------|---|-----------------|--|--------------|--|--|---|--|---|
| 1 1.3 | Species distribution | 1.1.1 Distributional range | Marine Mammals | Distributional range of Grey seal breeding | change in presence at extremities of breeding range | No decrease in current (baseline) range | grey seal | The Habitats Directive baseline (data from 1984-1987) | Existing Target | operational now | Habitats Dir | permanent sources. Coverage not guaranteed everywhere. | UK Seals monitoring programme. Monitoring of core areas is already undertaken through the sea monitoring programme | B) Baseline set in the past | Target set as deviation from baseline | The core distributional range of breeding grey seals has been regularly monitored since c1960: Other areas are patchy. |
| | | | | | | | | | | | | | based at SMRU. Monitoring in other areas by a variety o groups with information collated by SMRU. | r. | | |
| | | 1.1.2 Distributional pattern within range | Marine Mammals | Distributional pattern within range of harbour porpoises | Presence/absence in quarter ICES rectangles per year in five year periods | | harbour porpoises | The Habitats Directive baseline (data from 1984-1987) | Existing Target | operational by 2018 | Habitats Dir | Ensure that IBTS and other wide area surveys covered with reasonable frequency | Data collected under Joint Cetacean Protocol | B) Baseline set in the past | Target set as deviation from baseline | ICP data are dispersed among many groups. Th carries some risks of variability in data availability. Ideally only effort-related data should be used. Geographical biases may also exist. |
| | Species distribution | 1.1.2 Distributional pattern within range | Marine Mammals | Distributional pattern within range of bottlenose dolphins | Presence/absence in quarter ICES rectangles per year in five year periods | No statistically significant decrease in current (baseline) distributional pattern | bottlenase dolphin | The Habitats Directive baseline (data from 1984-1987) | Existing Target | operational by 2018 | Habitats Dir | | Data collected under Joint Cetacean Protocol | B) Baseline set in the past | Target set as deviation from baseline | ICP data are dispersed among many groups. Th carries some risks of variability in data availability, ideally only effort-related data should be used. Geographical biases may also exist. |
| 1. | Species distribution | 1.1.2 Distributional pattern within range | Marine Mammals | Distribution pattern within range of long fin pilot whales | Presence/absence in quarter ICES rectangles per year in five year periods | No statistically significant decrease in current (baseline) distributional pattern | long fined pilot whale | The Habitats Directive baseline (data from 1984-1987) | Existing Target | operational by 2018 | Habitats Dir | Ensure that IBTS and other wide area surveys covered with reasonable frequency | Data collected under Joint Cetacean Protocol | B) Baseline set in the past | Target set as deviation from baseline | JCP data are dispersed among many groups. Th carries some risks of variability in data availability. Ideally only effort-related data should be used. Geographical biases may also exist. |
| 2. | Species distribution | 1.1.2 Distributional pattern within range | Marine Mammals | Distributional pattern within range of short-beaked common dolphins | Presence/absence in quarter ICES rectangles per year in five year periods | No statistically significant decrease in current (baseline) distributional pattern | short beaked common dolphins | The Habitats Directive baseline (data from 1984-1987) | Existing Target | operational by 2018 | Habitats Dir | Ensure that IBTS and other wide area surveys covered with reasonable frequency | Data collected under Joint Cetacean Protocol | B) Baseline set in the past | Target set as deviation from baseline | ICP data are dispersed among many groups. Th carries some risks of variability in data availability. Ideally only effort-related data should be used. Geographical biases may also exist. |
| | Species distribution | 1.1.2 Distributional pattern within range 1.1.2 Distributional pattern | Marine Mammals | Distribution pattern within range of white beaked dolphins Distributional nattern within range | Presence/absence in quarter ICES rectangles per year in five year periods | No statistically significant decrease in current (baseline) distributional pattern | white beaked dolphins | The Habitats Directive baseline (data from 1984-1987) The Habitats Directive baseline | Existing Target | operational by 2018 | Habitats Dir | Ensure that IBTS and other wide area surveys covered with reasonable frequency Fosure that IBTS and other wide area surveys | Data collected under Joint Cetacean Protocol | B) Baseline set in the past | Target set as deviation from baseline | ICP data are dispersed among many groups. Th carries some risks of variability in data administration of the data should be used. Geographical biases may also exist. |
| | Species distribution | 1.1.2 Distributional pattern within range 1.1.2 Distributional pattern | Marine Mammals | Distributional pattern within range of minke whales in summer Distributional pattern within range | Presence/absence in quarter ICES rectangles per year in five year periods Proportion of occupancy of | No statistically significant decrease in current (baseline) distributional pattern No statistically significant decrease in current (baseline) distributional | minke whale | The Habitats Directive baseline (data from 1984-1987) The Habitats Directive baseline | Existing Target | operational by 2018 | Habitats Dir | Ensure that IBTs and other wide area surveys covered with reasonable frequency Monitoring of core areas is already undertake | Data collected under Joint Cetacean Protocol | B) Baseline set in the past B) Baseline set in the past | Target set as deviation from baseline | ICP data are dispersed among many groups. Th carries some risks of variability in data availability, ideally only effort-related data should be used. Geographical biases may also exist. Harbour seals are very faithful to sites. The corr |
| | | within range | Marine Mammals | of Harbour seal | sampling sub-units | pattern | harbour seal | (data from 1988-1994) | Existing Target | operational now | Habitats Dir | through the seal monitoring programme base at SMRU. Some additional funding required for analysis to be undertaken. Funding comes from a variety of non-permanent sources. | d programme | | Target set as deviation from baseline | areas are divided into units, the occupancy of which can be assessed at regular intervals. Thes can then be compared for similarity between years. |
| 1.: | Species distribution | 1.1.2 Distributional pattern within range | Marine Mammals | Distributional pattern within range of Grey seal breeding | An assessment of changes in distribution within core areas including an assessment of similarity between years | No statistically significant decrease in current (baseline) distributional pattern | grey seal | The Habitats Directive baseline (data from 1984-1987) | Existing Target | operational now | Habitats Dir | Monitoring of core areas is already undertake through the seal monitoring programme base at SMRU. Some additional funding required fo analysis to be undertaken, and potentially for some non-core areas | d programme for core areas. Monitoring in other areas b a variety of groups with information collated by SMRU. | B) Baseline set in the past | Target set as deviation from baseline | Grey seals are very faithful to colonies often returning within metres of a particular location The core areas are divided into units, the occupancy of which can be assessed at regular intervals. These can then be compared for similarity between years. |
| 1.3 | Population size | 1.2.1 Population abundance | Marine Mammals | Abundance of three inshore bottlenose dolphin populations | Total number of bottlenose dolphins in Scottish east coast, Cardigan Bay and Scottish west coast populations | No statistically significant decrease in abundance of any of the three populations | inshore bottlenose dolphin | Moray Firth - 1992; west coast Scotland - 2008; Cardigan Bay - 2005 | Existing Target | defined by 2012 & operational by 2014 | Habitats Dir | West coast of Scotland | Schemes exist on east coast of Scotland and in Cardigan Bay, short-term study data available on west coast of Scotland | B) Baseline set in the past | Target set as deviation from baseline | Robust mark-recapture estimates |
| 1: | Population size | 1.2.1 Population abundance | Marine Mammals | Abundance of harbour porpoise | Abundance | No statistically significant decrease in abundance | harbour porpoise | 2005 | Existing Target | operational by 2018 | Habitats Dir | At present, wide scale surveys are dodecadal; more frequent surveys would be costly (but note if averaged by year is comparatively low with little gain in precision of trend information. Next survey should be planned for 2016-18 | SCANS I and III, and CODA | C) Current baseline | Target set as deviation from baseline | Robust line-transect estimates |
| | Population size | 1.2.1 Population abundance | Marine Mammals | Abundance of white-beaked dolphin | Abundance | No statistically significant decrease in abundance | white beaked dolphin | 2005 | Existing Target | operational by 2018 | Habitats Dir | At present, wide scale surveys are dodecadal; more frequent surveys would be costly (but note if averaged by year is comparatively low with little gain in precision of trend information. Next survey should be planned for 2016-18 | | C) Current baseline | Target set as deviation from baseline | Robust line-transect estimates |
| 12 | Population size | 1.2.1 Population abundance | Marine Mammals | Abundance of short-beaked common dolphin | Abundance | No statistically significant decrease in abundance | short-beaked common dolphin | 2007 | Existing Target | operational by 2018 | Habitats Dir | At present, wide scale surveys are dodecadal; more frequent surveys would be costly (but note if averaged by year is comparatively low, with little gain in precision of trend information. Next survey should be planned for 2016-18 | SCANS I and III, and CODA | C) Current baseline | Target set as deviation from baseline | Robust line-transect estimates |
| 13 | Population size | 1.2.1 Population abundance | Marine Mammals | Abundance of minke whale | Abundance | No statistically significant decrease in abundance | minke whale | 2007 | Existing Target | operational by 2018 | Habitats Dir | At present, wide scale surveys are dodecadal; more frequent surveys would be costly (but note if averaged by year is comparatively low with little gain in precision of trend information. Next survey should be planned for 2016-18 | SCANS I and III, and CODA | C) Current baseline | Target set as deviation from baseline | Robust line-transect estimates |
| | Population size | 1.2.1 Population abundance | Marine Mammals | Abundance of bottlenose dolphin | Abundance | No statistically significant decrease in abundance | bottlenose dolphin | 2007 | Existing Target | operational by 2018 | Habitats Dir | At present, wide scale surveys are dodecadal, more frequent surveys would be costly (but note if averaged by year is comparatively low, with little gain in precision of trend information. Next survey should be planned for 2016.82 | SCANS I and III, and CODA | C) Current baseline | Target set as deviation from baseline | Robust line-transect estimates |
| 1. | Population size | 1.2.1 Population abundance | Marine Mammals | Abundance of long-finned pilot whale | Abundance | No statistically significant decrease in abundance | long-finned pilot whale | 2007 | Existing Target | operational by 2018 | Habitats Dir | At present, wide scale surveys are dodecadal; more frequent surveys would be costly (but note if averaged by year is comparatively low, with little gain in precision of trend information. Next survey should be planned for 2016.18 | SCANS I and III, and CODA | C) Current baseline | Target set as deviation from baseline | Robust line-transect estimates |
| 1.3 | Population size | 1.2.1 Population abundance | Marine Mammals | Harbour seal abundance | Annual abundance expressed as estimates (counts during moult) at approximately 5 year interval or as a five year rolling mean | No statistically significant deviation from long-term variation in abundance is | harbour seal | The Habitats Directive baseline (data from 1988-1994) | Existing Target | operational now | Habitats Dir | for 2016-18 Monitoring of core areas is already undertake through the seal monitoring programme base at SMRU and results presented to SCOS. Funding comes from a variety of non-permanent sources. | n UK Seals monitoring d programme | Mixture of approaches (details in comments) | Target set as deviation from baseline | Long time series of data beginning 1988-1994 depending on site. |
| | Population size | 1.2.1 Population abundance | Marine Mammals | grey seal abundance | estimates (from counts during pupping) at approximately 5 year intervals or as a five year rolling mean | No statistically significant deviation from long-term variation in abundance | grey seal | The Habitats Directive baseline (data from 1988-1994) | Existing Target | operational now | Habitats Dir | Monitoring of core areas is already undertake through the seal monitoring programme base at SMRU and results presented to SCOS. Funding comes from a variety of non- permanent sources. | d programme | Mixture of approaches (details in comments) | baseline | Long time series of data beginning in 1960s but new methods/techniques applied in 1980s. |
| 1.3 | Population condition | 1.3.1 Population demographic characteristics | Marine Mammals | Harbour seal pup production | Numbers of pups and adults through the breeding season in The Wash and in the Moray Firth | No statistically significant deviation from long-term variation in pup production in The Wash and in the Moray Firth. | harbour seal | mean value of entire time-series | Existing Target | defined by 2012 & operational by 2014 | Habitats Dir | 90% of this species outside Scotland resides here and the Moray Firth is the only other six where this occurs. Further sites (possibly SAC should be added. Assessments are annual in the Moray Firth and every five years in the Wash. | | Ai) Existing/Current reference conditions | Target set as deviation from baseline | Moray Firth pup production assessed since 1981 although more accurate aerial techniques were introduced in 2006. The Wash was first surveyer in 2003. |

| March Marc | 1 | 1.3 Population condition | 1.3.1 Population demographic | Marine Mammals | Grey seal pup production | Estimated total number of pups | No statistically significant deviation from long-term variation in pup | grey seal | mean value of entire time-series | Existing Target | operational now | Habitats Dir | Some extra funding would ensure more | UK Seals monitoring | Ai) Existing/Current reference | Target set as deviation from | Pup production has regularly been assessed at a |
|---|---|---|---|----------------|------------------------------------|---|---|-----------------------------|---|-----------------|--|--------------|--|---|--------------------------------|--|---|
| Column | | | characteristics | | | born at individual breeding colonies | production | | | | | | reliable supply of data from peripheral | programme (Wash funded by Natural England) | conditions | baseline | large number of sites since 1960s, although more accurate aerial techniques were introduced in |
| Part | 1 | 1.3 Population condition | 1.3.1 Population demographic | Marine Mammals | Annual calf production of Scottish | Number of calves | No statistically significant decrease in annual calf production | bottlenose dolphin | mean value of entire time-series | Existing Target | defined by 2012 & operational | Habitats Dir | | Study off east coast | Ai) Existing/Current reference | Target set as deviation from | 1984. Photo-id study of calves with known adult |
| Part | | | characteristics | | | | | | | | by 2014 | | | underway since 1989 and in | conditions | baseline | female dolphins |
| Part | 1 | 1.3 Population condition | | Marine Mammals | Harbour seal genetics | | No statistically significant loss of genetic variability | harbour seal | all existing data | New Target | operational by 2018 | | Continue collecting samples, undertake | | Ai) Existing/Current reference | Target set as deviation from | Initial work was undertaken on genetic structure |
| Part | | | structure | | | discrete population sub-units | | | | | | | analysis of samples, re-examine numbers in light of knowledge of genetic distribution | samples will be required for | conditions | baseline | the 90s. This has recently been reneated with |
| Company | | | | | | | | | | | | | | being taken routinely every | | | coverage. Once these results are available, we |
| Part | | | | | | | | | | | | | | time a seal is handled at present | | | will have a better idea of possible targets |
| Part | 4 | 4.1 Productivity (production | 4.1.1 Performance of key | Marine Mammals | Harbour seal pup production | | No statistically significant deviation from long-term variation in pup | harbour seal | all existing data | Existing Target | defined by 2012 & operational | Habitats Dir | 90% of this species outside Scotland resides | UK Seals monitoring | Ai) Existing/Current reference | Target set as deviation from | Moray Firth pup production assessed since 1988 |
| Part | | per unit biomass) of key species or trophic groups | production per unit biomass | | | through the breeding season in The Wash and in the Moray Firth | production | | | | by 2014 | | where this occurs. Further sites (possibly SACs | and Norfolk funded by | conditions | baseline | introduced in 2006. The Wash was first surveyed |
| Part | | | (productivity) | | | | | | | | | | should be added. Assessments are annual in the Moray Firth and every five years in the | Natural England) | | | in 2003. |
| Part | 4 | 4.1 Productivity (production | | Marine Mammals | Grey seal pup production | | No statistically significant deviation from long-term variation in pup | grey seal | all existing data | Existing Target | operational now | Habitats Dir | Wash. Some extra funding would ensure more | UK Seals monitoring | Ai) Existing/Current reference | Target set as deviation from | Pup production has regularly been assessed at a |
| | | per unit biomass) of key species or trophic groups | production per unit biomass | | | | production | | | | | | reliable supply of data from peripheral breeding areas | programme (Wash funded by Natural England) | conditions | baseline | large number of sites since 1960s, although more accurate aerial techniques were introduced in |
| Part of strain for the part of strain for t | | | (productivity) | | | | | | | | | | | | | | 1984. |
| Part of strain for the part of strain for t | | | | | | | | | | | | | | | | | |
| Part of strain for the part of strain for t | | | | | | | | | | | | | | | | | |
| Part of strain for the part of strain for t | | | | | | | | | | | | | | | | | |
| Part of strain for the part of strain for t | | | | | | | | | | | | | | | | | |
| Property of the Control of the Con | 4 | 4.1 Productivity (production | | Marine Mammals | Annual calf production of Scottish | Number of calves | No statistically significant decrease in annual calf production | bottlenose dolphin | | Existing Target | defined by 2012 & operational | Habitats Dir | | | Ai) Existing/Current reference | Target set as deviation from | Photo-id study of calves with known adult |
| Market M | | species or trophic groups | production per unit biomass | | bottlenose dolphin populations | | | | monitoring | | Dy 2014 | | | underway since 1989 and in | conditions | Daseime | remaie dorprins |
| Property Controlled 1.50 | | 4.2 Abundance/distribution of | | Marino Mammale | Relative use of baulouts by | Polation chared occurrance of | Requirer further data analysis | grow and harhour coal | 1 | Mour Tremet | operational by 2019 | Unhitate Die | Additional analysis undeputation determine in | | Cl Current baseline | Tyrnet ret as deviation for | |
| Part | * | | functionally important | Marine Mammais | | | Requires further data analysis | grey and narbour seal | | New larget | operational by 2018 | Habitats bir | there is a relationship between relative | | C) Current baseline | larget set as deviation from baseline | |
| Process of the company of the comp | | | selected groups/species | | | | | | | | | | | | | | |
| Section of the control of the contro | 4 | 4.3 Abundance/distribution of | f 4.3.1 Abundance trends of | Marine Mammals | Harbour seal abundance | Annual abundance expressed as | | harbour seal | The Habitats Directive baseline | Existing Target | operational now | Habitats Dir | Monitoring of core areas is already undertaker | | Mixture of approaches (details | Target set as deviation from | |
| Application | | key tropnic groups/species | | | | at approximately 5 year intervals | abundance | | (data from 1988-1994) | | | | at SMRU and results presented to SCOS. | programme | in comments) | baseline | depending on site. |
| March property Marc | | | | | | | | | | | | | permanent sources. | | | | |
| Procession of the control of the c | 4 | | functionally important | Marine Mammals | | dolphins in Scottish east coast, | | inshore bottlenose dolphin | Moray Firth - 1992; west coast Scotland - 2008; Cardigan Bay - | Existing Target | defined by 2012 & operational by 2014 | Habitats Dir | West coast of Scotland | of Scotland and in Cardigan | B) Baseline set in the past | Target set as deviation from baseline | Robust mark-recapture estimates |
| Control Cont | | | selected groups/species | | | | | | 2005 | | | | | available on west coast of | | | |
| Section of the control of the contro | 4 | 4.3 Abundance/distribution of | f 4.3.1 Abundance trends of | Marine Mammals | Abundance of harbour porpoise | Abundance | No statistically significant decrease in abundance | harbour porpoises | 2005 | Existing Target | operational by 2018 | Habitats Dir | At present, wide scale surveys are dodecadal; | | C) Current baseline | Target set as deviation from | Robust line-transect estimates |
| Service of the control of the contro | | key trophic groups/species | | | | | | | | | | | note if averaged by year is comparatively low) | | | baseline | |
| And the second property of the second propert | | | | | | | | | | | | | information. Next survey should be planned | | | | |
| Here the properties of the format properties o | 4 | 4.3 Abundance/distribution of | f 4.3.1 Abundance trends of | Marine Mammals | Abundance of white-beaked | Abundance | No statistically significant decrease in abundance | white beaked dolphin | 2005 | Existing Target | operational by 2018 | Habitats Dir | for 2016-18 At present, wide scale surveys are dodecadal; | SCANS I and II, and CODA | C) Current baseline | Target set as deviation from | Robust line-transect estimates |
| Part Company | | key trophic groups/species | functionally important selected groups/species | | dolphin | | | | | | | | note if averaged by year is comparatively low) | | | baseline | |
| Septiment of the control of the cont | | | | | | | | | | | | | information. Next survey should be planned | | | | |
| For the proper dependence of the property of t | 4 | | | Marine Mammals | | Abundance | No statistically significant decrease in abundance | short beaked common dolphin | s 2007 | Existing Target | operational by 2018 | Habitats Dir | for 2016-18 At present, wide scale surveys are dodecadal; | SCANS I and II, and CODA | C) Current baseline | Target set as deviation from | Robust line-transect estimates |
| Part A Resident (Company) A Resident of Printing and Special Company of Printing | | key trophic groups/species | functionally important selected groups/species | | common dolphin | | | | | | | | note if averaged by year is comparatively low) | | | baseline | |
| Part An Alexander (Company) An Alexander | | | | | | | | | | | | | with little gain in precision of trend information. Next survey should be planned | | | | |
| In the finding polysphore in the finding pol | 4 | 4.3 Abundance/distribution of | f 4.3.1 Abundance trends of | Marine Mammals | Abundance of minke whale | Abundance | No statistically significant decrease in abundance | minke whale | 2007 | Existing Target | operational by 2018 | Habitats Dir | for 2016-18 | SCANS I and II, and CODA | C) Current baseline | Target set as deviation from | Robust line-transect estimates |
| Section of the control of the contro | | key trophic groups/species | functionally important | | | | | | | | | | note if averaged by year is comparatively low). | | | baseline | |
| A 2 Abundance of interface of programs of the | | | | | | | | | | | | | information. Next survey should be planned | | | | |
| Interest group/species with the far group/species with the far group/species with the far the group species with the far the group species with the far the far group species with the far the far group species with the far group species with species with the far group species with the group species | 4 | | f 4.3.1 Abundance trends of | Marine Mammals | Abundance of bottlenose dolphin | Abundance | No statistically significant decrease in abundance | bottlenose dolphin | 2007 | Existing Target | operational by 2018 | Habitats Dir | for 2016-18 At present, wide scale surveys are dodecadal; | SCANS I and II, and CODA | C) Current baseline | Target set as deviation from | Robust line-transect estimates |
| ## All Abundance revenues where the personal process and the personal p | | key trophic groups/species | functionally important selected groups/species | | | | | 1 | 1 | | | | note if averaged by year is comparatively low) | | | baseline | |
| A Substance of long fromes glober while We Treatly appropriate to | | | | | | | | | 1 | | | | information. Next survey should be planned | | | | |
| whole properly group deposits where the properties of properties of properties of properties whole where the properties of the properties | 4 | | | Marine Mammals | Abundance of long-finned pilot | Abundance | No statistically significant decrease in abundance | long-finned pilot whale | 2007 | Existing Target | operational by 2018 | Habitats Dir | At present, wide scale surveys are dodecadal: | SCANS I and II, and CODA | C) Current baseline | Target set as deviation from | Robust line-transect estimates |
| Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual bycatch rate is reduced to less than 1.7% of best population Annual | | | functionally important | | whale | | | 1 | 1 | | | | more frequent surveys would be costly (but note if averaged by year is comparatively low) | | | baseline | |
| Amount byzatch rate is reduced to less than 1.7% of best population condition. Pressure indicator and the population of the commend of physical condition. Pressure indicator and the population of the commend of physical condition. Pressure indicator and the population of the popula | | | | | | | | | 1 | | | | with little gain in precision of trend information. Next survey should be planned | | | | |
| estimate CEN WOMAND (2009) and the Novel address on commenced by a displacation is \$12 (\$18 (\$20 (\$1.5 to \$1.5 to \$ | 1 | 1.3 Population condition | Pressure indicator | Marine Mammals | harbour porpoise bycatch | estimate of bycatch | Annual bycatch rate is reduced to less than 1.7% of best population | harbour porpoise | SCANS II (2005), CODA (2007). | Existing Target | operational now | ASCOBANS | for 2016-18 Annual bycatch observer surveys are | UK Bycatch Monitoring | Mixture of approaches (details | Absolute Value (target not set | at Robust bycatch estimates. These have been |
| Cash Isset Againment (CA) in determining the level of section of larget the larget of larget the larget the larget of larget the large | | | | | | - | estimate | 1 | ICES WGMME (2009) and the IWC all advocate the use of | | | | undertaken on commercial fishing vessels in relation to EU Regulation 812/2004 and the | Scheme | in comments) | baseline) | estimated annually since 2005. |
| Second to the control of the contr | | | | | | | | | Catch Limit Algorithms (CLA) in determining the level of | | | | Habitats Directive already. No additional costs | | | | |
| La Population condition Personal Expectation Condition Persona | | | | | | | | | allowable bycatch from population estimates. | | | | | | | | |
| Not all advocate the use of Each Limit Agentium (CLA) in Agent and the Agent and CLA Community (CLA) in Agent and CLA COMMUNITY (CLA | 1 | 1.3 Population condition | Pressure indicator | Marine Mammals | common dolphin bycatch | estimate of bycatch | Annual bycatch rate is reduced to less than 1.7% of best population estimate | short beaked common dolphin | IS SCANS II (2005), CODA (2007), ICES WGMME (2009) and the | Existing Target | defined by 2012 & operational by 2014 | ASCOBANS | undertaken on commercial fishing vessels in | UK Bycatch Monitoring Scheme | | | at Robust bycatch estimates. These have been estimated annually since 2005. |
| Annual Systach rate is reduced to less than 2% of best population condition. I 1.3 Population condition Pressure indicator Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is reduced to less than 2% of best population intellinate Annual Systach rate is re | | | | | | | 1 | 1 | (WC all advocate the use of Catch Limit Algorithms (CLA) in | | | | relation to EU Regulation 812/2004 and the | | | | |
| 1 1 Population condition Pressure indicator Pressur | | | | | | | | 1 | determining the level of allowable bycatch from | | | | likely to be incurred. | | | | |
| formming the level of showable by cache from population estimate. 1 1.3 Population condition Pressure indicator Pressure indic | 1 | 1.3 Population condition | Pressure indicator | Marine Mammals | harbour seal bycatch | estimate of bycatch | Annual bycatch rate is reduced to less than 2% of best population | harbour seals | population estimates. | Existing Target | defined by 2012 & operational | Habitats Dir | Annual bycatch observer surveys are | UK Bycatch Monitoring | Mixture of approaches (details | Absolute Value (target not set | at Robust bycatch estimates. These have been |
| In the production condition of the production of | | | | | , | | estimate | 1 | (CLA) is advocated for | | by 2014 | | undertaken on commercial fishing vessels in | Scheme | in comments) | baseline) | estimated annually since 2005. |
| 1 1.3 Population condition Pressure indicator All risks Mannauls For yeard by catch For year and year of the proposation of the | | | | | | | | | allowable bycatch from | | | | Habitats Directive already. Needs assessment | | | | |
| estimate CLA is advocated for by 2014 Indeptition on commercial filting grossate in commercial formation grossate in statement of the statem | 1 | 1 3 Population condition | Pressure indicator | Marine Mammak | grey seal hyratch | estimate of huratch | Annual hyratch rate is reduced to less than 7% of hest novolution | prev seals | | Existing Target | defined by 2012 & operational | Hahitats Dir | incurred | LIK Bycatch Monitories | Mixture of approaches (details | Absolute Value (target not cot | at Robust huratch estimates. These have been |
| allowable by-carch from Habitats Directive already, Nether Assessment populations on estimate. by the control of the control | ſ | | | | gray and openion | | estimate | 6y | (CLA) is advocated for | | by 2014 | | undertaken on commercial fishing vessels in | Scheme | | | estimated annually since 2005. |
| papament nominate. As to written autonomic state steep or out Accounted. | | | | | | | | | allowable bycatch from | | | | Habitats Directive already. Needs assessment | | | | |
| | | | | | | | | l | population estimates. | | | l | incurred. | | | | |

| 1 | 1.3 Population condition | Pressure indicator | Marine Mammals | PCB and other organohalogenated contamination in porpoises | estimate of PCB and other organohalogenated contaminants in tissues | PCB and other organishalogenated contamination in porpoises are below estimated threshold levels for adverse health effects. | harbour porpoise | New Target | operational by 2018 | Habitats Dir | UK stranding scheme (CSIP) collects tissue samples. Analysis of these are undertaken on an ad hoc basis when funding becomes available. Most recent costing indicated approximately £26k to complete data set to 2010, and £7.5k per annum to 2013. | UK stranding scheme (CSIP) NA collects tissue samples. Analysis of these are undertaken on an ad hoc basis when funding becomes available | Limits / thresholds | Work undertaken through CSIP has demonstrated that porspoises dying as a result of infectious disease had significantly higher levels of PCBs than healthy porpoises that dies as a result of traumatic deaths (e.g., Byeatch or bottlenose dolphin kills). PCS I |
|---|--------------------------|---|----------------|---|--|--|---|--|--|--------------|--|--|--|---|
| 1 | 1.3 Population condition | Pressure indicator | Marine Mammals | PCB and other organohalogenated contamination in harbour seals | estimate of PCB and other organohalogenated contaminants in tissues | RCB and other organohalogenated contamination in harbour seals are below estimated threshold levels for adverse health effects. | harbour seals | New Target | operational by 2018 | Habitats Dir | Need systematic sampling of carcasses from outside Scotland. Analysis of all archived and new samples is required. | Systematic collection of NA tissues camples from carcasses occurs in Scotland. Analysis of samples is on an ad hoc basis when funding is available. | Limits / thresholds | Work undertaken through CSIP has demonstrated that porpoises dying as a result of infectious disease had significantly higher levels of PCBs than healthy porpoises that dies as a result of traumatic deaths (e.g., by |
| 1 | 1.3 Population condition | Pressure indicator | Marine Mammals | algal toxins in seals | estimate of exposure to algal toxins | Requires further data analysis | harbour seals & grey seals | New Target | operational by 2018 | Habitats Dir | Need systematic sample collection (of seal scats) that is regularly understaken and is representative of seal distribution in the UK. Additional funds would be required for toxin analysis of the samples. | Facacia samples are currently INA obtained by SMINU as part of a study on seal diet. This involves ad hoc collection of seal scata st various sites around the UK, Dut is untilitied to continue beyond the end of the current diet study. | Limits / thresholds | Assessment of toxin levels in seal facecs will provide information on the exposure of seals to the toxins produced by harmful algal blooms which appear to be increasing in many areas throughout the world, including the UK, due to changes in the environment and increases in nutrient input to the marine environment. |
| 1 | 1.1 Species distribution | 1.1.1 Distributional range | Fish | Distributional range of Fish (Continental Shelf Seas) | are converted to standardised deviates (D) (b) Dy=(Dy. Xbarl/SD), where Xy is the annual indicator value, Xbar is the mean indicator value over the whole time series, and SD is the standard deviation of indicator values around this mean. | Souther Septent II below GES (E. DEPART IN community (soC) or stamlers (110.3). The one forcest standardised deviate of the distribution range indicates should exceed d.S. Section (100.2). The most recent standardised deviate of the distribution range indicates should specify on exceed the long-time series sense placetar should specify on exceed the long-time series sense indicates should specify on exceed the long-time series sense indicates should specify and exceed the long-time series sense indicates should specify and exceed the long-time series sense indicates should specify a series of the series of the grant specific series of the series of the series of the specific series of the seri | sampled adequately in international and national bottom-trawl groundfish surveys | Bottom trad groundfalls survey. New Target time earlies. | defined by 2012 & operational by 2014 | | None | outernational and national fempirical variability of metric bottom travel groundflub over specified time period. surveys | Target set as deviation from baseline | ICES WGPE and scientific literature. |
| 1 | 1.1 Species distribution | 1.1.1 Distributional range | Fish | Distributional range of Fish (Shelf- edge Seas) | Proportion of sampled depth bands in which the species occurs. Annual indicator values are converted to standardised deviates (Dy) (by Dy-DV- Xbar)/SD), where Ny is consulal indicator value, Xbar is the mean indicator value over the whole time series, and SD is the standard deviation of indicator values around this mean. | Sensitude Speciest II Below GES (E. D. GDMAR This community (soc)) on stational E110-3.3. The contracted standardised deviate of the distribution range indicator should exceed 41.5. Sensitude Speciest 16 of 16 (E. D. GDMAR This community (soc)) attained. F10-31. The most recent standardised deviate of the distribution range indicator should special or access this together time series mean parameterized deviate 40.0. Opportunity Species. At any time. The most recent standardised deviate of the distribution range indicator should not exceed, and shoully be less share, the long term man series must placed deviate distribution. | | Bottom trad groundfish univery New Target time earlies. | defined by 2012 & operational by 2014 | | None | International and national Reprincil variability of metric bottom travel groundflush over specified time period. surveys | baseline | CCS WOFE and scientific literature. |
| 1 | 1.1 Species distribution | 1.1.2 Distributional pattern within range | Fish | Distributional pattern within range of Fish (Shelf-edge Seas) | Measure of depth distribution within occupied depth range – e.g. Dispersion/Contagion metric such as measuresiance ratio. Annual indicator values are converted to standardised deviates (Dy) (by Dy»(Dy» Dy»(Dy» Dy»(Dy») and deviates (Dy) (by Dy»(Dy») and Subari/SD), where was indicator value, when the mean indicator value around this mean. Advantors | Target currently under development | Applicable to all species campled adequately in international and national bottom-trawl groundfish surveys | Bottom travel groundfish surveys New Target time-earlies. | defined by 2012 & operational | | None | international and national (impaircal sociability of metric bottom travel groundflub over specified time period. surveys: | Target set as deviation from baseline | CCS WGFE and scientific iterature. |
| 1 | 1.1 Species distribution | 1.1.2 Distributional pattern within range | Fish | Distributional pattern within range of Fish (Continental Shelf Seas) | Measure of species patchiness within the distribution — e.g. Dispersion/Contagion metric such as mean-variance ratio. Annual indicator values are converted to standardised deviates (by) (By 0-y-0)y-Ybbarl/SDJ, where Vy is the annual indicator value over the whole time series, and SD is the standard deviation of indicator values around this mean. | Taggit currently under development | Applicable to all species rampled adequately in international and national bottom-travil groundfish surveys | Sottom trail groundfull surveys New Turget time series. | defined by 2012 & operational | | None | international and national bottom travel groundflush curverys and groundflush curverys excelled time period. | Target set as deviation from baseline | CLS WGPE and scientific literature. |
| 1 | 1.2 Population size | 1.2.1 Population abundance | Fish | Population abundance of Fish | leg abundance estimates. Limitarisation to adhered area suppropriate to the survey in question — e.g. 20 Jame? 2 or North Sea QL 1875, or minimum week graze. Amount indicator values are first tog transformed and then converted (p.C) 10/ Dp-(Py Abart/SD), where by its the log annual indicator value. Xbar is the mean indicator log values over the whole time series, and 50 is the standard deviation of indicator in deviation of indicator in deviation of indicator in deviation of indicator in series, and 50 is the standard deviation of indicator in guitarior in deviation of indicator in guitarior deviation of indicator deviation of indicator in guitarior deviation of indicator deviation of indicator deviator deviator deviator deviator deviator deviator deviator deviator deviator deviator dev | issuiture Septester. If helive GES Ex. DERARTIN community (nGD) set statismice Life.3.). The most recent standardized deviates of the log- shoundance indicator should exceed 1-05. The community (nGD) statismice species; 105 cts. 0.0548 fill information (nGD) statismice find-0.11. The most recent standardized deviate of the log-shoundance indicator should equal or exceed the log-special species. The literator should equal or exceed the log-special species. The statismic deviate 20.0). Opportunitis Species. The sprise The most recent standardized deviate of the log-shoundance indicator should not exceed, and ideally be less than, the long-term time series mean (standardized deviate 60.0). | Applicable to all species rampled adequately in international and national bottom-travel groundfish surveys | hatton train groundfish surveys New Target interestrick. | by 2014 defined by 2012 & operational by 2014 | | None | international and national congrecial variability of nestic control trail groundfuls over specified time period. | Target set as deviation from baseline | CSS securions and curvey ventring groups, grounding survey databases, and scientific storature. |

| | | | | | | | | | , | | | | | | | |
|-----|---|--|---|--|--|---|--|--|-----------------|--|--|--|--|--|--|--|
| | 1.2 Population size | 1.2.1 Population biomass | Fish | Fish population biomass | Log biomass, either directly obtained from the measured | Sensitive Species: If below GES (i.e., OSPAR Fish community EcoQO not attained: LFIsO.3). The most recent standardised deviate of the log- | Applicable to all species sampled adequately in | Bottom trawl groundfish surveys time-series. | New Target | | | None | International and national bottom trawl groundfish | Empirical variability of metric over specified time period. | Target set as deviation from | ICES assessment and survey working groups, groundfish survey databases, and scientific |
| | | | | | weight of species in the survey | biomass indicator should exceed +0.5. | international and national | Citie-series. | | | | | surveys | over apecined time period. | OBJETTINE. | literature. |
| | | | | | or derived from application of | | bottom-trawl groundfish | | | | | | | | | |
| | | | | | weight at length relationships | Sensitive Species: If at GES (i.e., OSPAR Fish community EcoQO attained | surveys | | | | | | | | | |
| | | | | | applied to the abundances at | LFI>0.3). The most recent standardised deviate of the log-biomass | | | | | | | | | | |
| | | | | | length data, standardised to a | indicator should equal or exceed the long-term time series mean | | | | | | | | | | |
| | | | | | defined area appropriate to the | (standardised deviate 20.0). | | | | | | | | | | |
| | | | | | survey in question = e.g. | | | | | | | | | | | |
| | | | | | 30km^2 for current N.Sea coast | Opportunist Species: At any time. The most recent standardised deviate of the log-biomass indicator should not exceed, and ideally be less than, | | | | | | | | | | |
| | | | | | study, or minimum swept area. Annual indicator values are first | of the log-biomass indicator should not exceed, and ideally be less than, the long-term time series mean (standardised deviate s0.0). | | | | | | | | | | |
| | | | | | Log-transformed and then | one long-term time series mean (standardised deviate 50.0). | | | | | | | | | | |
| | | | | | converted to standardised | | | | | | | | | | | |
| | | | | | deviates (Dy) (by Dy+(Xy- | | | | | | | | | | | |
| | | | | | Xbar)/SD}, where Xy is the log | | | | | | | | | | | |
| | | | | | annual indicator value, Xbar is | | | | | | | | | | | |
| | | | | | the mean indicator log value | | | | | | | | | | | |
| | | | | | over the whole time series, and SD is the standard deviation of | | | | | | | | | | | |
| | | | | | indicator log values around this | | | | | | | | | | | |
| | | | | | mean | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | defined by 2012 & operational | | | | | | |
| | | | | | | | | | | by 2014 | | | | | | |
| 1 | 1.3 Population condition | 1.3.1 Population demographic | Fish | Proportion of mature fish in | Proportion of individual fish | Target currently under development | Applicable to all species | Bottom trawl groundfish surveys | New Target | | | None | International and national | Empirical variability of metric | Target set as deviation from | ICES assessment and survey working groups, |
| | | characteristics | | population | greater than their species- specific length at first sexual | | sampled adequately in international and national | time-series. | | | | | bottom trawl groundfish | over specified time period. | baseline | groundfish survey databases, and scientific literature. |
| | | | | | maturity. Annual indicator | | bottom-trawl groundfish | | | | | | surveys | | | iterature. |
| | | | | | values are converted to | | surveys | | | | | | | | | |
| | | | | | standardised deviates (Dy) (by | | Julyeya | | | | | | | | | |
| | | | | | Dy=(Xy-Xbar)/SD), where Xy is | | | | | | | | | | | |
| | | | | | the annual indicator value, Xbar | | 1 | | | | | 1 | 1 | | | |
| - 1 | | | | | is the mean indicator value over | | 1 | | | | | 1 | 1 | | | |
| - 1 | | | | | the whole time series, and SD is | | 1 | | | | | 1 | 1 | | | |
| - 1 | | | | | the standard deviation of | | 1 | | | | | 1 | 1 | | | |
| - 1 | | | | | indicator values around this | | 1 | | | defined by 2012 & operational | | 1 | 1 | | | |
| | | | | | mean. | | | | | defined by 2012 & operational | | | | | | |
| 1 | 1.3 Population condition | 1.3.2 Population genetic | Fich | No indicator proposed | No indicator proposed | No indicator proposed | | | | by 2014 | | New sampling programme on board RV | International and national | | | ICES assessment and survey working groups, |
| T . | | structure | | ,, | The second second | | | | | | | groundfish surveys required. Associated lab- | bottom trawl groundfish | | | groundfish survey databases, and scientific |
| | | | | | | | | | | | | based analytical programmes need | surveys. Analysis to assess | | | literature. |
| | | | | | | | | | | | | establishing | genetic structure in many | | | |
| | | | | | | | | | | | | | species | | | |
| 1 | 1.7 Ecosystem structure | 1.7.1 Composition and relative | Fish | Fish relative abundance | Proportion of Large Fish | Current targets are 0.3 in the North Sea and 0.4 in the Celtic Sea | Applicable to all species | Bottom trawl groundfish surveys | Existing Target | | Baseline setting process | None | International and national | Reference period set in the past | | ICES assessment, survey, and ecosystem working |
| | | proportions of ecosystem | | | Indicator (LFI): proportion (by | | sampled adequately in | time-series. | | | underpinning the North Sea LFI. | | bottom trawl groundfish | | pressure last deemed | groups, groundfish survey databases, and |
| | | components | | | weight) of demersal fish exceeding a specified length | | international and national bottom-trawl groundfish | | | | | | surveys | | sustainable. | scientific literature. |
| | | | | | threshold (current thresholds | | surveys | | | | | | | | | |
| | | | | | 40cm in North Sea, 50cm in | | surveys | | | | | | | | | |
| | | | | | Celtic Sea). | | | | | operational now | | | | | | |
| 1 | 1.7 Ecosystem structure | 1.7.1 Composition and relative | | Fish relative abundance | | | | | | | | | | | | |
| | | | | | | | Applicable to all species | Bottom trawl groundfish surveys | New Target | | | None | International and national | Reference period set in the past | Target set as when fishing | ICES assessment, survey, and ecosystem working |
| | | proportions of ecosystem | Fish | Pisii relative abulidance | Hills N1 indicator of species diversity | Target currently under development | Applicable to all species sampled adequately in | Bottom trawl groundfish surveys time-series. | New Target | | Baseline setting process underpinning the North Sea LFI. | None | International and national bottom trawl groundfish | Reference period set in the past | pressure last deemed | ICES assessment, survey, and ecosystem working groups, groundfish survey databases, and |
| | | proportions of ecosystem components | Fish | PSII relative additionalice | | Target currently under development | sampled adequately in international and national | | New Target | | Baseline setting process underpinning the North Sea LFI. | None | International and national bottom trawl groundfish surveys | Reference period set in the past | Target set as when fishing pressure last deemed sustainable. | ICES assessment, survey, and ecosystem working groups, groundfish survey databases, and scientific literature. |
| | | proportions of ecosystem | Fish | PSI relative admidance | | Target currently under development | sampled adequately in | | New Target | | Baseline setting process underpinning the North Sea LFI. | None | International and national bottom trawl groundfish surveys | Reference period set in the past | pressure last deemed | groups, groundfish survey databases, and |
| 4 | 4.2 Proportion of colorted | proportions of ecosystem components | Fish | | diversity | | sampled adequately in international and national bottom-trawl groundfish surveys | time-series. | | operational by 2018 | underpinning the North Sea LFI. | None (eroundfish sunnu data assilahle in | bottom trawl groundfish surveys | | pressure last deemed sustainable. | groups, groundfish survey databases, and scientific literature. |
| 4 | 4.2 Proportion of selected species at the trough food | proportions of ecosystem | Fish | Large fish indicator (LFI) | diversity Proportion (by weight) of fish | Targets to be established for each marine region relative to a region | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species | time-series. Bottom trawl groundfish surveys | | operational by 2018 | Baseline setting process underpinning the North Sea LFI. OSPAR | None (groundfish survey data available in | bottom trawl groundfish surveys International and national | | pressure last deemed sustainable. I Target set as the metric value a | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of |
| 4 | 4.2 Proportion of selected species at the top of food webs | proportions of ecosystem components | Fish | | diversity | | sampled adequately in international and national bottom-trawl groundfish surveys | time-series. | | operational by 2018 | underpinning the North Sea LFI. | None (groundfish survey data available in most regions - certainly throughout UK waters). | bottom trawl groundfish surveys | | pressure last deemed sustainable. Target set as the metric value a the point in time when fishing | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of |
| 4 | | proportions of ecosystem components | Fish | | Proportion (by weight) of fish exceeding a specified length | Targets to be established for each marine region relative to a region specific reference period, and dependent on the species composition | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in | time-series. Bottom trawl groundfish surveys | | operational by 2018 | underpinning the North Sea LFI. | most regions - certainly throughout UK | bottom trawl groundfish surveys International and national | | pressure last deemed sustainable. Target set as the metric value a the point in time when fishing | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) Shephard, S.et al. |
| 4 | | proportions of ecosystem components | Fish | | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold is pertinent to the community and species | Targets to be established for each marine region relative to a region specific reference period, and dependent on the species composition included in the indicator calculation like pine; a food web metric, pelagic | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national | time-series. Bottom trawl groundfish surveys | | operational by 2018 | underpinning the North Sea LFI. | most regions - certainly throughout UK | bottom trawl groundfish surveys International and national | | pressure last deemed sustainable. Target set as the metric value a the point in time when fishing pressure on the community firs | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) Shephard, S.et al. |
| 4 | | proportions of ecosystem components | Fish | | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold is pertinent to the | Targets to be established for each marine region relative to a region specific reference period, and dependent on the species composition included in the indicator calculation like pine; a food web metric, pelagic | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national bottom-trawl groundfish | time-series. Bottom trawl groundfish surveys | | operational by 2018 | underpinning the North Sea LFI. | most regions - certainly throughout UK | bottom trawl groundfish surveys International and national | | pressure last deemed sustainable. Target set as the metric value a the point in time when fishing pressure on the community firs | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) Shephard, S.et al. |
| 4 | | proportions of ecosystem components | Fish | | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold is pertinent to the community and species | Targets to be established for each marine region relative to a region specific reference period, and dependent on the species composition included in the indicator calculation like pine; a food web metric, pelagic | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national bottom-trawl groundfish | time-series. Bottom trawl groundfish surveys | | operational by 2018 | underpinning the North Sea LFI. | most regions - certainly throughout UK | bottom trawl groundfish surveys International and national | | pressure last deemed sustainable. Target set as the metric value a the point in time when fishing pressure on the community firs | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) Shephard, S.et al. |
| 4 | | proportions of ecosystem components | Fish | | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold is pertinent to the community and species | Targets to be established for each marine region relative to a region specific reference period, and dependent on the species composition included in the indicator calculation like pine; a food web metric, pelagic | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national bottom-trawl groundfish | time-series. Bottom trawl groundfish surveys | | operational by 2018 | underpinning the North Sea LFI. | most regions - certainly throughout UK | bottom trawl groundfish surveys International and national | | pressure last deemed sustainable. Target set as the metric value a the point in time when fishing pressure on the community firs | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) Shephard, S.et al. |
| 4 | | proportions of ecosystem components | Fish | | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold is pertinent to the community and species | Targets to be established for each marine region relative to a region specific reference period, and dependent on the species composition included in the indicator calculation like pine; a food web metric, pelagic | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national bottom-trawl groundfish | time-series. Bottom trawl groundfish surveys | | | underpinning the North Sea LFI. | most regions - certainly throughout UK | bottom trawl groundfish surveys International and national | | pressure last deemed sustainable. Target set as the metric value a the point in time when fishing pressure on the community firs | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) Shephard, S.et al. |
| 4 | | proportions of ecosystem components | Fish | | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold is pertinent to the community and species | Targets to be established for each marine region relative to a region specific reference period, and dependent on the species composition included in the indicator calculation like pine; a food web metric, pelagic | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national bottom-trawl groundfish | time-series. Bottom trawl groundfish surveys | | defined by 2012 & operational | underpinning the North Sea LFI. | most regions - certainly throughout UK | bottom trawl groundfish surveys International and national | | pressure last deemed sustainable. Target set as the metric value a the point in time when fishing pressure on the community firs | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) Shephard, S.et al. |
| 4 | | proportions of ecosystem components 4.2.1 Large fish by weight | Fish | Large fish indicator (LFI) | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold is pertinent to the community and species composition in question | Targets to be established for each manner region relative to a region specific reference period, and dependent on the spaces composition included in the indicator carbusation. Being of own benefit; pelegrapous may be included - thus neve targets will need to be established. | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national bottom-trawl groundfish | time-series. Bottom trawl groundfish surveys | New Target | | underpinning the North Sea LFI. | most regions - certainly throughout UK | bottom travé groundfish surveys international and national bottom travé groundfish surveys | Reference period using historica data | pressure last deemed sustainable. Target set as the metric value as the point in time when fishing pressure on the community firm became non-sustainable. | groups, groundfish survey databases, and scientific literature. at 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) Shephard, S.et al. |
| 4 | species at the top of food webs | proportions of ecoystem components 4.2.1 Large fish by weight 4.3.1 Abundance trends of functionally important | Fish | | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold where the length threshold is periorite to the community and species composition in question Biomass of pelagic planktivores, otherwise, pelagic piscovers, demercial | Targets to be established for each marine region relative to a region specific reference period, and dependent on the species composition included in the indicator calculation like pine; a food web metric, pelagic | sampled adequately in international and national bottom-trawl groundfish surveys. Applicable to all species sampled adequately in international and national bottom-trawl groundfish surveys. Applicable to all species sampled adequately in | time-series. Bottom trawi groundfish surveys time-series. | New Target | defined by 2012 & operational | underpinning the North Sea LFI. | most regions - certainly throughout UK waters). | bottom travé groundfish surveys international and national bottom travé groundfish surveys | | pressure last deemed sustainable. Target set as the metric value as the point in time when fishing pressure on the community firm became non-sustainable. | group, groundfish savey databases, and coderents. Exercises. It is Generatives, S.P.A. et al. (2011) CSS normal of Marine Science, 68: 1-11. 2) Shephand, S.et al. (2011) CSS normal of Marine Science, 68: 1-12. 2) Shephand, S.et al. (8) In press) (CSS Journal of Marine Science. These fish productor groups were used in the searly CRSSM moderfiles work and how |
| 4 | species at the top of food webs 4.3 Abundance/distribution of | proportions of ecosystem components 4.2.1 Large fish by weight | Fish | Large fish indicator (LFI) | diversity Proportion (by weight) of fith exceeding a specified length threshold is pertinent to the community and specifies composition in question Biomass of pelagic plankthores, polagic pictovores, demeral benthinces, demeral pictovores, demeral | Targets to be established for each manner region relative to a region specific reference period, and dependent on the spaces composition included in the indicator carbusation. Being of own benefit; pelegrapous may be included - thus neve targets will need to be established. | sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national bottom-trawl groundfish surveys Applicable to all species sampled adequately in international and national bottom-trawl groundfish surveys | time-series. Bottom trawi groundfish surveys time-series. Bottom trawi groundfish surveys | New Target | defined by 2012 & operational | underpinning the North Sea LFI. | most regions - certainly throughout UK waters). None (groundfish survey data available in | bottom trawl groundfish surveys international and national bottom trawl groundfish surveys | Reference period using historica data | pressure last deemed sustainable. Target set as the metric value as the point in time when fishing pressure on the community firm became non-sustainable. | group, groundfish savey statebases, and scientific featurals. It () Greenstreet, SP A et al. (DSI 1) CSS showned of Marine Science, 68: 1.1. 7.) Shophard, St et al. to In press) CSS journal of Marine Science. These fish prosition groups were used in the early SDSM modelling with and have early SDSM modelling with and have |
| 4 | species at the top of food webs 4.3 Abundance/distribution of | proportions of ecoystem components 4.2.1 Large fish by weight 4.3.1 Abundance trends of functionally important | Fish | Large fish indicator (LFI) | diversity Proportion (by weight) of fish exceeding a specified length threshold where the length threshold where the length threshold is periorite to the community and species composition in question Biomass of pelagic planktivores, otherwise, pelagic piscovers, demercial | Targets to be established for each manner region relative to a region specific reference period, and dependent on the spaces composition included in the indicator carbusation. Being of own benefit; pelegrapous may be included - thus neve targets will need to be established. | sampled adequately in international and national bottom-trawl groundfish surveys. Applicable to all species sampled adequately in international and national bottom-trawl groundfish surveys. Applicable to all species sampled adequately in | time-series. Bottom trawi groundfish surveys time-series. Bottom trawi groundfish surveys | New Target | defined by 2012 & operational by 2014 | underpinning the North Sea LFI. | most regions - certainly throughout UK waters). None (groundfish survey data available in | bottom trawl groundfish surveys international and national bottom trawl groundfish surveys | Reference period using historica data | pressure last deemed sustainable. Target set as the metric value as the point in time when fishing pressure on the community firm became non-sustainable. | group groundfish savey databases, and scientific features. If Generatines, S.P.R. et al. (2011) KES abound of Manine Science, 68: 9.1.7, 37 Septimes, S. et al. (2011) KES abound of Manine Science, 69: 9.1.7, 37 Septimes, S. et al. (2011) Septimes Science, 69: 9.1.7, 37 Septimes Science, 69: 9.1.7, 37 Septimes Science, 69: 9.1.7, 37 Septimes, S. et al. (2011) Septimes Science, 69: 9.1.7, 37 Septimes, S. et al. (2011) Septimes Science, 69: 9.1.7, 37 Septimes, |
| 4 | species at the top of food webs 4.3 Abundance/distribution of key trophic groups/species | proportions of ecoystem components 4.2.1 Large fish by weight 4.3.1 Abundance trends of sunctionally important selected groups/species | Fish | Large fish indicator (LFI) Distany functional group biomass | diversity Proportion (by weight) of fish exceeding a specified length three-field is perfined to region three-field is perfinent to the community and species composition in question Biomass of pelagic plantitivores, pelagic piscounts, demenal and comensures and comensures processes and comensures and comensures and comensures or comensure and comensures. | Targets to be established for each marine region relative to a region specific reference period, and dependent on the spocies composition included in the indicate carculation. Being on who when they species opposition may be included - thus new targets will need to be established. Target currently under development | sampled adequately in international and national bottom-travel groundfish surveys. Applicable to all species international and in the manufacture of surveys. Applicable to all species surveys groundfish surveys and surveys applicable to all species sampled adequately in international and national bottom-travel groundfish surveys. | time-series. Bottom travé groundfish surveyi time-series. Bottom travé groundfish surveyi time-series. | New Target | defined by 2012 & operational by 2014 operational by 2014 | underpinning the North Sea LFI. | most regions - certainly throughout UK useters). None (groundfish survey data available in most regions - certainly throughout UK useters). | bottom travé groundfish surveys international and national bottom travé groundfish surveys international and national bottom travé groundfish surveys | Reference period using historica data data for the period using historical data for the period using historical variability of metrics over specified time period. | pressure last deemed sustainable. Tagget set as the metric value a temperature of the point in time when flohing point on the when flohing pourson on the community first accume non-sustainable. Target set as deviation from baseline | group, groundfish savey databases, and coloratific featuring. If () Generatives(, SF, R et al. (2011) CSS insumal of Marine Science, 68: 1-11. 7) Stephand, S et al. (20 In press) CSS bournal of Marine Science. These fish predator groups were used in the supported previous flood with studies of the pression of the p |
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| 4 | species at the top of food webs 4.3 Abundance/distribution of key trophic groups/species | proportions of ecoystem components 4.2.1 Large fish by weight 4.3.1 Abundance trends of sunctionally important selected groups/species | Polige habitats | Large fish indicator (LFI) Detary functional group biomass Change of plankton functional types | diversity Proportion (by weight) of fish acceeding a specified length acceeding a specified length which is specified to the specified proposition of the community and species composition in question in question in question in question perspective, demersal benthivores, demersal benthivores, demersal accentivores under convices under convices (Lindows & Ratio between: Districtions & Ratio between: Districtions & Samil Coppepoid; Coppepoid | Targets to be established for each marine region relative to a region specific reference period, and dependent on the spocies composition included in the indicate carculation. Being on who when they species opposition may be included - thus new targets will need to be established. Target currently under development | complete delegratify in international and endough international endough i | Bettien travel groundfish survey have derign. Bettien travel groundfish survey have derign. Bettien travel groundfish survey have derign. The baseline for a particular region or disc and set set with worth planting deriver. The particular region or disc and set with worth planting deriver and the particular region or disc and set with worth planting deriver. The particular region or disc and set with the worth planting deriver of climate wardeling must be considered or discharged to the particular region of the r | New Target | defined by 2012 & operational by 2014 operational by 2018 defined by 2018 & operational | underprinning the horth Sea LT. 2004M The use of plankton lifeforms (or horthogone) in the control of the con | moat regions- certainly throughout UK waters). Soon (groundfith survey data available in most regions- certainly throughout UK waters). The plackton community is currently studied at a number of locations in UK waters (Figure 2-) and its in recommended that these about a community is currently studied at a number of locations in UK waters (Figure 2-). 2 and its in recommended that these about a companied that is limited ampelling of companied that it limited ampelling of companied in contract waters and it is recommended to the land of the coollyderamic water for place and all of the coollyderamic water for place within a region in order to make a region with a region in order to make a survey and the contract of the survey and the contract of the survey of the contract of the survey of the contract of the survey of the water hader region of the survey of the waters hader region of the survey. | bottom tray groundfish surveys international and national bottom tray groundfish surveys international and national bottom tray groundfish surveys. Out to be entracted from any dataset that identifies surveys international and national bottom tray groundfish surveys. Can be entracted from any dataset that identifies surveys internation using light methods that receive to specification using light methods that receive to specifications, making light from the control of the control | Reference period using historical data Interpretation of the period. The baseline for a particular warder than the period. The baseline for a particular warder than the period. The baseline for a particular warder than the period of the period. The baseline for a particular warder than the period of contracting influence of climate variability must be considered warderly than the period of the period | pressure last deemed sustainable. Target set as the metric value at the point in time when fishing pressure on the community first pressure on the community first became non-sustainable. Target set as deviation from baseline Oirectional / trend based target | group, groundfish savey stablasses, and scientific featurals. If (i) Greenstreet, SPR, et al. (2011) (ES sourmal of hadron's Science, 56 5 11.7, 7) Septibute, S, et al. (iii) prenty) (ES) sourmal of Manine Science, 56 5 11.7, 7) Septibute, S, et al. (iii) prenty) (ES) sourmal of Manine Science, and prenty) (ES) sourmal of Manine Science, see a supported promote load with suited supported promote load with suited supported promote load with suited and suited suited and suited suit |
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| 4 | species at the top of food webs 4.3 Abundance/distribution of key trophic groups/species | proportions of ecoystem components 4.2.1 Large fish by weight 4.3.1 Abundance trends of sunctionally important selected groups/species | nuis nuis Pringe habitats | Large fish indicator (LFI) Detary functional group biomass Change of plankton functional types | diversity Proportion (by weight) of fish acceeding a specified length acceeding a specified length which is specified to the specified proposition of the community and species composition in question in question in question in question perspective, demersal benthivores, demersal benthivores, demersal accentivores under convices under convices (Lindows & Ratio between: Districtions & Ratio between: Districtions & Samil Coppepoid; Coppepoid | Targets to be established for each marine region relative to a region specific reference period, and dependent on the spocies composition included in the indicate carculation. Being on who when they species opposition may be included - thus new targets will need to be established. Target currently under development | complete delegizativi y in international and enabrad international enabrad enabrad international enabrad | Bettien travel groundfish survey have derign. Bettien travel groundfish survey have derign. Bettien travel groundfish survey have derign. The baseline for a particular region or disc and set set with worth planting deriver. The particular region or disc and set with worth planting deriver and the particular region or disc and set with worth planting deriver. The particular region or disc and set with the worth planting deriver of climate wardeling must be considered or discharged to the particular region of the r | New Target | defined by 2012 & operational by 2014 operational by 2018 defined by 2018 & operational | underprinning the horth Sea LT. 2004M The use of plankton lifeforms (or horthogone) in the control of the con | moat regions- certainly throughout UK waters). Soon (groundfith survey data available in most regions- certainly throughout UK waters). The plackton community is currently studied at a number of locations in UK waters (Figure 2-) and its in recommended that these about a community is currently studied at a number of locations in UK waters (Figure 2-). 2 and its in recommended that these about a companied that is limited ampelling of companied that it limited ampelling of companied in contract waters and it is recommended to the land of the coollyderamic water for place and all of the coollyderamic water for place within a region in order to make a region with a region in order to make a survey and the contract of the survey and the contract of the survey of the contract of the survey of the contract of the survey of the water hader region of the survey of the waters hader region of the survey. | bottom tray groundfish surveys international and national bottom tray groundfish surveys international and national bottom tray groundfish surveys. Out to be entracted from any dataset that identifies surveys international and national bottom tray groundfish surveys. Can be entracted from any dataset that identifies surveys internation using light methods that receive to specification using light methods that receive to specifications, making light from the control of the control | Reference period using historical data Interpretation of the period. The baseline for a particular warder than the period. The baseline for a particular warder than the period. The baseline for a particular warder than the period of the period. The baseline for a particular warder than the period of contracting influence of climate variability must be considered warderly than the period of the period | pressure last deemed sustainable. Target set as the metric value at the point in time when fishing pressure on the community first pressure on the community first became non-sustainable. Target set as deviation from baseline Oirectional / trend based target | group, groundfish savey stablasses, and scientific featurals. If (i) Greenstreet, SPR, et al. (2011) (ES sourmal of hadron's Science, 56 5 11.7, 7) Septibute, S, et al. (iii) prenty) (ES) sourmal of Manine Science, 56 5 11.7, 7) Septibute, S, et al. (iii) prenty) (ES) sourmal of Manine Science, and prenty) (ES) sourmal of Manine Science, see a supported promote load with suited supported promote load with suited supported promote load with suited and suited suited and suited suit |

| 1 | 1.4 Habitat distribution | 1.4.2 Distributional pattern | Pelagic habitats | Change of plankton functional types | Lifeforms: | plankton community not significantly influenced by anthropogenic | As plankton are primarily | The baseline for a particular | New Target defined by 2012 & operational | The use of plankton lifeforms (o | The plankton community is currently studied | Can be extracted from any | The baseline for a particular | | The use of plankton lifeforms (or functional |
|-----|--------------------------|--------------------------------------|------------------|-------------------------------------|---|--|--|--|--|--|--|--|--|--|--|
| | | within range | | (life form) index | Ratio between: Diatoms & | drivers | influenced by climate and | region or site can be set with | by 2014 | functional groups) as indicators | at a number of locations in UK waters (Figure | dataset that identifies | region or site can be set with | (direction of change) | groups) as indicators is well published in the |
| | | | | | Dinoflagellates; Large copepods & Small copepods; Copepod | | natural variability, difficulty lie in separating out the | s existing historical data where available: however the | | is well published in the scientific literature. The approach | 0-2) and it is recommended that these should form the basis of a network of sampling | | existing historical data where available: however the | | scientific literature. The approach outlined here |
| | | | | | grazers & Non-copepod grazers | | anthropogenic changes. The | continuing influence of climate | | outlined here will compliment | stations. There are a number of gaps, for | microscopy and other methods that resolve to soo | continuing influence of climate | | will compliment Water Framework Directive coastal phytoplankton monitoring currently |
| | | | | | grazera di Norr-Copepou grazera | | comparison between the | variability must be considered | | Water Framework Directive | example there is limited sampling of | level(SAHFOS, Marine | variability must be considered | | underway in UK waters. Due to the strong |
| | | | | | | | changes in lifeform seasonal | and continually reviewed in the | | coastal phytoplankton | zooplankton in coastal waters and it is | Scotland sites, NOC, Cefas | and continually reviewed in the | | evidence base underpinning both the lifeform |
| 1 | | | | | 1 | | variability (see Annex III) | context of baseline setting. This | | monitoring currently underway | important that sampling stations are located | sites, AFBI, EA WFD, PML). | context of baseline setting. This | | approach to indicators (Tett et al 2008, Margalef |
| | | | | | | | occurring in coastal waters to | will mean the baseline may | | in UK waters. Due to the strong | | Few coastal zooplankton | will mean the baseline may | | 1978, Le Quéré et al., 2005) and the comparative |
| | | | | | | | those in the open ocean can | change over time, and our | | evidence base underpinning | within a region in order to make a | time-series exist. | change over time, and our | | approach to separating climate- and |
| | | | | | | | help us distinguish between changes due to manageable | targets allow for this (see below). The status of the | | both the lifeform approach to indicators (Tett et al 2008, | representative assessment of GES of UK waters. A possible (and cost-effective) solution | | targets allow for this (see | | anthropogenically-driven change in marine ecosystems ((see McQuatters-Gollop et al. 2007 |
| | | | | | | | changes due to manageable anthropogenic pressures and | below). The status of the plankton will then need to be | | indicators (Tett et al 2008, Margalef 1978. Le Quéré et al | waters. A possible (and cost-effective) solution could be to undertake coastal zopolankton | n | below). The status of the plankton will then need to be | | ecosystems ((see McQuatters-Gollop et al. 2007 and references therein, McQuatters-Gollop et al. |
| | | | | | | | those due to climate and | assessed to determine the | | Margaier 1978, Le Quere et al., 2005) and the comparative | sampling concomitant to SEPA and the | | assessed to determine the | | and reterences therein, McQuatters-Gollop et al. |
| | | | | | | | natural variability. If a shift in | extent to which it is influenced | | approach to separating climate- | Environment Agency's phytoplankton | | extent to which it is influenced | | 2006). |
| | | | | | | | lifeforms occurs in coastal | by anthropogenic pressures | | and anthropogenically-driven | monitoring programme which periodically | | by anthropogenic pressures | | |
| | | | | | | | waters concomitantly with a | This approach is somewhat | | change in marine ecosystems | collects phytoplankton samples in UK coastal | | This approach is somewhat | | |
| | | | | | | | pressure event (nutrient | aligned with the method | | ((see McQuatters-Gollop et al. | waters, but that does not retain the | | aligned with the method | | |
| | | | | | | | loading, etc) and there is no | 'baseline set in the past' - | | 2007 and references therein, | zooplankton component. It is important that | | 'baseline set in the past' = | | |
| | | | | | | | corresponding shift in other | however we are not seeking to | | McQuatters-Gollop et al. 2008), | plankton sampling occurs in all of the | | however we are not seeking to | | |
| | | | | | | | coastal time-series or in the | set baselines that reflect pristing | | all recommended targets could be operationalised now. There | ecohydrodynamic water types within UK waters (Figure 0.2). A man of ecohydrodynam | | set baselines that reflect pristine | 2 | |
| | | | | | | | could be a response to an | baseline is a point from which to | | is, however, a need to | regions for the western shelf region of the UK | ie ie | baseline is a point from which to | | |
| | | | | | | | anthropogenic pressure, | determine if a change has | | operationalise the lifeform | currently in development (Sonia Leeuwen, | | determine if a change has | | |
| | | | | | | | especially if there is a | occurred. Where new | | approach and this would require | Cefas). Additional sampling stations (off shore | 2 | occurred. Where new | | |
| | | | | | | | correlation between the trend | monitoring is instated, several | | the following: . Completion of a | and coastal for zooplankton) will need to be | | monitoring is instated, several | | |
| | | | | | | | in lifeforms and anthropogenia | years of data will be needed to | | map showing the | established around the UK as there are clear | | years of data will be needed to | | |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical | Pelagic habitats | Change of plankton functional types | Lifeforms: | plankton community not significantly influenced by anthropogenic | As plankton are primarily | The baseline for a particular | New Target defined by 2012 & operational | The use of plankton lifeforms (o | The plankton community is currently studied | Can be extracted from any | The baseline for a particular | Directional / trend based targets | The use of plankton lifeforms (or functional |
| | | species and communities | | (life form) index | Ratio between: Diatoms & | drivers | influenced by climate and | region or site can be set with | by 2014 | functional groups) as indicators | at a number of locations in UK waters (Figure | dataset that identifies | region or site can be set with | (direction of change) | groups) as indicators is well published in the |
| 1 | | | | | Dinoflagellates; Large copepods | | natural variability, difficulty lie | s existing historical data where | | | 0-2) and it is recommended that these should | | existing historical data where | | scientific literature. The approach outlined here |
| 1 | | | | | & Small copepods; Copepod grazers & Non-copepod grazers | | in separating out the anthropogenic changes. The | available; however the continuing influence of climate | | literature. The approach outlined here will compliment | form the basis of a network of sampling stations. There are a number of gaps, for | microscopy and other methods that resolve to spp | available; however the continuing influence of climate | | will compliment Water Framework Directive coastal phytoplankton monitoring currently |
| 1 | | | | | grazers & Non-copepod grazers | | anthropogenic changes. The comparison between the | continuing influence of climate variability must be considered | | outlined here will compliment Water Framework Directive | stations. There are a number of gaps, for example there is limited sampling of | methods that resolve to spp level(SAHFOS, Marine | variability must be considered | | coastal phytoplankton monitoring currently underway in UK waters. Due to the strong |
| 1 | | | | | 1 | | changes in lifeform seasonal | and continually reviewed in the | | coastal phytoplankton | zooplankton in coastal waters and it is | Scotland sites, NOC, Cefas | and continually reviewed in the | | evidence base underpinning both the lifeform |
| 1 | | | | | 1 | | variability (see Annex III) | context of baseline setting. This | | monitoring currently underway | important that sampling stations are located | sites, AFBI, EA WFD, PML). | context of baseline setting. This | | approach to indicators (Tett et al 2008, Margalef |
| 1 | | | | | 1 | | occurring in coastal waters to | will mean the baseline may | | in UK waters. Due to the strong | in all of the ecohydrodynamic water types | Few coastal zooplankton | will mean the baseline may | | 1978, Le Quéré et al., 2005) and the comparative |
| 1 | | | | | 1 | | those in the open ocean CAN | change over time, and our | | evidence base underpinning | within a region in order to make a | time-series exist. | change over time, and our | | approach to separating climate- and |
| 1 | | | | | 1 | | help us distinguish between | targets allow for this (see | | both the lifeform approach to | representative assessment of GES of UK | | targets allow for this (see | | anthropogenically-driven change in marine |
| 1 | | | | | 1 | | changes due to manageable | below). The status of the plankton will then need to be | | indicators (Tett et al 2008, Margalef 1978, Le Quéré et al | waters. A possible (and cost-effective) solution | n | below). The status of the plankton will then need to be | | ecosystems ((see McQuatters-Gollop et al. 2007 and references therein, McQuatters-Gollop et al. |
| 1 | | | | | 1 | | anthropogenic pressures and those due to climate and | plankton will then need to be assessed to determine the | | Margalef 1978, Le Quéré et al., 2005) and the comparative | could be to undertake coastal zooplankton sampling concomitant to SEPA and the | | plankton will then need to be assessed to determine the | | and reterences therein, McQuatters-Gollop et al. |
| | | | | | | | those due to climate and natural variability. If a shift in | extent to which it is influenced | | approach to separating climate- | Environment Agency's phytoplankton | | assessed to determine the extent to which it is influenced | | 2008). |
| | | | | | | | lifeforms occurs in coastal | by anthropogenic pressures | | and anthropogenically-driven | monitoring programme which periodically | | by anthropogenic pressures | | |
| | | | | | | | waters concomitantly with a | This approach is somewhat | | change in marine ecosystems | collects phytoplankton samples in UK coastal | | This approach is somewhat | | |
| | | | | | | | pressure event (nutrient | aligned with the method | | ((see McQuatters-Gollop et al. | waters, but that does not retain the | | aligned with the method | | |
| | | | | | | | loading, etc) and there is no | 'baseline set in the past' - | | 2007 and references therein, | zooplankton component. It is important that | | 'baseline set in the past' - | | |
| | | | | | | | corresponding shift in other | however we are not seeking to | | McQuatters-Gollop et al. 2008), | plankton sampling occurs in all of the | | however we are not seeking to | | |
| | | | | | | | coastal time-series or in the | set baselines that reflect pristing | | all recommended targets could | ecohydrodynamic water types within UK | | set baselines that reflect pristine | 2 | |
| | | | | | | | open ocean, the coastal shift | conditions; the purpose of the | | be operationalised now. There | waters (Figure 0 2). A map of ecohydrodynam | ic | conditions; the purpose of the | | |
| | | | | | | | could be a response to an | baseline is a point from which to determine if a change has | | is, however, a need to operationalise the lifeform | regions for the western shelf region of the UK currently in development (Sonia Leeuwen, | is . | baseline is a point from which to | • | |
| | | | | | | | anthropogenic pressure, especially if there is a | occurred. Where new | | approach and this would require | Cefas). Additional sampling stations (off shore | , | determine if a change has occurred. Where new | | |
| | | | | | | | correlation between the trend | | | | and coastal for zooplankton) will need to be | | monitoring is instated, several | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | monitoring is instated, several years of data will be needed to | | | | | | | |
| | 1.6 Habitat condition | 1.6.2 Relative abundance and | Balsaic habitate | Zonel spiton biomarc | Zoonlankton hinmarr | alsolden community and circulficantly influenced by setheroposale | in lifeforms and anthropogenia | years of data will be needed to | New Tyenst defined by 2012 & operational | map showing the | established around the UK as there are clear | East coastal accelaniston | years of data will be needed to | Directional / trend based targets | The use of plankton lifeforms for functional |
| 1 | 1.6 Habitat condition | 1.6.2 Relative abundance and biomass | Pelagic habitats | Zooplankton biomass | Zooplankton biomass | plankton community not significantly influenced by anthropogenic drivers | | | New Target defined by 2012 & operational by 2014 | | | Few coastal zooplankton time-series exist, the CPR | | Directional / trend based targets (direction of change) | The use of plankton lifeforms (or functional groups) as indicators is well published in the |
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| | | 1.7.1: Composition and | Pelagic habitats | change in all pelagic indicators for | Change in all pelagic indicators | plankton community not significantly influenced by anthropogenic | As plankton are primarily | The baseline for a particular | New Target | defined by 2012 & operational | The use of plankton lifeforms (or | The plankton community is currently studied | Can be extracted from any | The baseline for a particular | Directional / trend based target | ts The use of plankton lifeforms (or functional |
|--------|-------------------------------------|--|---|---|--|--|--|---|--|---|--|--|--|--|--|--|
| | | relative proportion of | | D1, D4, D5.2.4, D6 | for D1, D4, D5.2.4, D6 | drivers | influenced by climate and | region or site can be set with | | by 2014 | functional groups) as indicators | at a number of locations in UK waters (Figure | dataset that identifies | region or site can be set with | (direction of change) | groups) as indicators is well published in the |
| | | ecosystem components | | | | | natural variability, difficulty lie | s existing historical data where | | 1 | is well published in the scientific | 0-2) and it is recommended that these should | plankton using light | existing historical data where | | scientific literature. The approach outlined here |
| | | | | | | | in separating out the | available; however the | | | literature. The approach | form the basis of a network of sampling | microscopy and other | available; however the | | will compliment Water Framework Directive |
| | | | | | | | anthropogenic changes. The | continuing influence of climate | | | outlined here will compliment | stations. There are a number of gaps, for | methods that resolve to spp | continuing influence of climate | | coastal phytoplankton monitoring currently |
| | | | | | | | comparison between the | variability must be considered | | | Water Framework Directive | example there is limited sampling of | level(SAHFOS, Marine Scotland sites, NOC, Cefas | variability must be considered | | underway in UK waters. Due to the strong |
| | | | | | | | changes in lifeform seasonal variability (see Anney III) | and continually reviewed in the | | | coastal phytoplankton monitoring currently underway | zooplankton in coastal waters and it is important that sampling stations are located | Scotland sites, NOC, Cefas sites AFRI FA WFD PMI) | and continually reviewed in the | ' | evidence base underpinning both the lifeform approach to indicators (Tett et al 2008, Margalet |
| | | | | | | | occurring in coastal waters to | will mean the baseline may | | | in UK waters. Due to the strong | | Few coastal zooplankton | will mean the baseline may | • | approach to indicators (1ett et al 2008, Margaier 1978, Le Quéré et al., 2005) and the comparative |
| | | | | | | | those in the onen orean can | change over time, and our | | | evidence base underpinning | within a region in order to make a | time-series evict | change over time, and our | | approach to separating climate- and |
| | | | | | | | help us distinguish between | targets allow for this (see | | | both the lifeform approach to | representative assessment of GES of UK | | targets allow for this (see | | anthropogenically-driven change in marine |
| | | | | | | | changes due to manageable | helow). The status of the | | | indicators (Tett et al 2008. | waters. A possible (and cost-effective) solutio | 1 | below). The status of the | | ecosystems ((see McQuatters-Gollop et al. 2007 |
| | | | | | | | anthropogenic pressures and | plankton will then need to be | | | Margalef 1978, Le Quéré et al., | could be to undertake coastal zooplankton | | plankton will then need to be | | and references therein, McQuatters-Gollop et al. |
| | | | | | | | those due to climate and | assessed to determine the | | | 2005) and the comparative | sampling concomitant to SEPA and the | | assessed to determine the | | 2008). |
| | | | | | | | natural variability. If a shift in | extent to which it is influenced | | | approach to separating climate- | Environment Agency's phytoplankton | | extent to which it is influenced | | |
| | | | | | | | lifeforms occurs in coastal | by anthropogenic pressures | | | and anthropogenically-driven | monitoring programme which periodically | | by anthropogenic pressures | | |
| | | | | | | | waters concomitantly with a | This approach is somewhat | | | change in marine ecosystems | collects phytoplankton samples in UK coastal | | This approach is somewhat | | |
| | | | | | | | pressure event (nutrient | aligned with the method 'baseline set in the past' – | | | ((see McQuatters-Gollop et al. 2007 and references therein, | waters, but that does not retain the zooplankton component. It is important that | | aligned with the method 'baseline set in the past' – | | |
| | | | | | | | loading, etc) and there is no corresponding shift in other | baseline set in the past – however we are not seeking to | | | McQuatters-Gollop et al. 2008). | plankton sampling occurs in all of the | | baseline set in the past — however we are not seeking to | | |
| | | | | | | | coastal time-series or in the | set baselines that reflect pristing | | | all recommended targets could | ecohydrodynamic water types within UK | | set baselines that reflect pristing | | |
| 4 | | of 4.3.1 Abundance trends of | Pelagic habitats | Change of plankton functional types | Life forms: Ratio between: Ratio | plankton community not significantly influenced by anthropogenic | As plankton are primarily | The baseline for a particular | New Target | defined by 2012 & operational | The use of plankton lifeforms (or | The plankton community is currently studied | Can be extracted from any | The baseline for a particular | Directional / trend based target | ts The use of plankton lifeforms (or functional |
| | key trophic groups/species | functionally important | | (life form) index | between: Gelatinous | drivers | influenced by climate and | region or site can be set with | - | by 2014 | functional groups) as indicators | at a number of locations in UK waters (Figure | dataset that identifies | region or site can be set with | (direction of change) | groups) as indicators is well published in the |
| | | selected groups/species | | | zooplankton & Fish larvae, | | natural variability, difficulty lie | s existing historical data where | | | is well published in the scientific | 0-2) and it is recommended that these should | plankton using light | existing historical data where | | scientific literature. The approach outlined here |
| | | | | | Copepods & Phytoplankton; | | in separating out the | available; however the | | | literature. The approach | form the basis of a network of sampling | microscopy and other | available; however the | | will compliment Water Framework Directive |
| | | | | | Holoplankton & Meroplankton | | anthropogenic changes. The | continuing influence of climate | | | outlined here will compliment Water Framework Directive | stations. There are a number of gaps, for | methods that resolve to spp level(SAHFOS, Marine | continuing influence of climate | | coastal phytoplankton monitoring currently |
| | | | | | | | comparison between the | variability must be considered | | | | example there is limited sampling of | | variability must be considered | | underway in UK waters. Due to the strong |
| | | | | | | | changes in lifeform seasonal variability (see Annex III) | and continually reviewed in the context of baseline setting. This | | | coastal phytoplankton monitoring currently underway | zooplankton in coastal waters and it is important that sampling stations are located | Scotland sites, NOC, Cefas sites, AFBI, EA WFD, PML). | and continually reviewed in the context of baseline setting. This | | evidence base underpinning both the lifeform approach to indicators (Tett et al 2008, Margalef |
| | | | | | | | occurring in coastal waters to | will mean the baseline may | | | in UK waters. Due to the strong | | Few coastal zooplankton | will mean the baseline may | | 1978, Le Quéré et al., 2005) and the comparative |
| | | | | | | | those in the open ocean can | change over time, and our | | | evidence base underpinning | within a region in order to make a | time-series exist. | change over time, and our | | approach to separating climate- and |
| | | | | | | | help us distinguish between | targets allow for this (see | | | both the lifeform approach to | representative assessment of GES of UK | | targets allow for this (see | | anthropogenically-driven change in marine |
| | | | | | | | changes due to manageable | below). The status of the | | | indicators (Tett et al 2008, | water: A perrible (and cort effective) relution | 1 | below). The status of the | | ecosystems ((see McQuatters-Gollop et al. 2007 |
| | | | | | 1 | | anthropogenic pressures and | plankton will then need to be | | | Margalef 1978, Le Quéré et al., | could be to undertake coastal zooplankton | 1 | plankton will then need to be | 1 | and references therein, McQuatters-Gollop et al. |
| - 1 | | | | İ | | 1 | those due to climate and | assessed to determine the | | | 2005) and the comparative | sampling concomitant to SEPA and the | 1 | assessed to determine the | 1 | 2008). |
| | | | | | 1 | | natural variability. If a shift in | extent to which it is influenced | | | approach to separating climate- | Environment Agency's phytoplankton | 1 | extent to which it is influenced | 1 | 1 |
| - 1 | | | | l | 1 | 1 | lifeforms occurs in coastal | by anthropogenic pressures | | | and anthropogenically-driven | monitoring programme which periodically | 1 | by anthropogenic pressures | 1 | |
| | | | | | 1 | | waters concomitantly with a pressure event (nutrient | This approach is somewhat aligned with the method | | | change in marine ecosystems ((see McQuatters-Gollop et al. | collects phytoplankton samples in UK coastal waters, but that does not retain the | 1 | This approach is somewhat aligned with the method | 1 | 1 |
| | | | | | 1 | | pressure event (nutrient loading, etc) and there is no | aligned with the method 'baseline set in the past' = | | | ((see McQuatters-Gollop et al. 2007 and references therein. | waters, but that does not retain the zooplankton component. It is important that | 1 | aligned with the method 'baseline set in the past' – | 1 | 1 |
| | | | | | 1 | | corresponding shift in other | baseline set in the past = however we are not seeking to | | | MrQuatters Gollon et al. 2008) | plankton component, it is important that | 1 | however we are not seeking to | 1 | 1 |
| | | | | | | | corresponding shift in other coastal time-series or in the | set baselines that reflect pristing | | | all recommended targets could | ecohydrodynamic water types within UK | | set baselines that reflect pristing | e | |
| | | | | | 1 | | open ocean, the coastal shift | conditions: the purpose of the | | | be operationalised now. There | waters (Figure 0.2). A map of ecohydrodynami | d | conditions: the purpose of the | 1 | 1 |
| | | | | | | | could be a response to an | baseline is a point from which to | | | is, however, a need to | regions for the western shelf region of the UK | is | baseline is a point from which to | | |
| | | | | | | | anthropogenic pressure, | determine if a change has | | | operationalise the lifeform | currently in development (Sonia Leeuwen, | | determine if a change has | | |
| | | | | | | | especially if there is a | occurred. Where new | | | approach and this would require | Cefas). Additional sampling stations (off shore | | occurred. Where new | | |
| | | | | | | | correlation between the trend | monitoring is instated, several | | | the following: • Completion of a | | | monitoring is instated, several | | |
| | | | | | | | in lifeforms and anthropogenia | years of data will be needed to | | | map showing the | established around the UK as there are clear | | years of data will be needed to | | |
| 5 | 5.2 Direct effects of nutrient | t 5.2.4 Species shift in floristic | Pelagic habitats | Change of plankton functional types | Ratio between: Diatoms & | plankton community not significantly influenced by anthropogenic | As plankton are primarily | The baseline for a particular | New Target | defined by 2012 & operational | The use of plankton lifeforms (or | The plankton community is currently studied | Can be extracted from any | The baseline for a particular | | The use of plankton lifeforms (or functional |
| | enrichment | composition | | (life form) index | Dinoflagellates; Ciliates & | drivers | influenced by climate and | region or site can be set with | | by 2014 | functional groups) as indicators | at a number of locations in UK waters (Figure | dataset that identifies | region or site can be set with | | groups) as indicators is well published in the |
| | | | | | Microflagellates; Pseudo- | | natural variability, difficulty lie | s existing historical data where | | | is well published in the scientific | 0-2) and it is recommended that these should | plankton using light | existing historical data where | | scientific literature. The approach outlined here |
| | | | | | nitzchia spp. & Other toxin | | in separating out the | available; however the | | | literature. The approach | form the basis of a network of sampling | microscopy and other | available; however the | | will compliment Water Framework Directive |
| | | | | | producing dinoflagellates | | anthropogenic changes. The comparison between the | continuing influence of climate | | | outlined here will compliment Water Framework Directive | stations. There are a number of gaps, for | methods that resolve to spp level/SAHFOS, Marine | continuing influence of climate | | coastal phytoplankton monitoring currently underway in UK waters. Due to the strong |
| | | | | | | | | variability must be considered and continually reviewed in the | | | Water Framework Directive coastal phytoplankton | example there is limited sampling of gooplankton in coastal waters and it is | level(SAHFOS, Marine Scotland sites, NOC, Cefas | | | |
| | | | | | | | changes in lifeform seasonal variability (see Annex III) | and continually reviewed in the context of baseline setting. This | | | coastal phytopiankton monitoring currently underway | important that sampling stations are located | sites, AFBI, EA WFD, PML). | and continually reviewed in the context of baseline setting. This | | evidence base underpinning both the lifeform approach to indicators (Tett et al 2008, Margalet |
| | | | | | | | variability (see Annex III) occurring in coastal waters to | will mean the baseline may | | | in UK waters. Due to the strong | important that sampling stations are located in all of the ecohydrodynamic water types | Few coastal zooplankton | will mean the baseline may | | approach to indicators (Tett et al 2008, Margalef 1978, Le Quéré et al., 2005) and the comparative |
| | | | | | | | those in the onen orean CBD | change over time, and our | | | evidence base underpinning | within a region in order to make a | time-series exist. Nano and | change over time, and our | | approach to separating climate- and |
| | | | | | | | help us distinguish between | targets allow for this (see | | | both the lifeform approach to | representative assessment of GES of UK | pico plankton data are very | targets allow for this (see | | anthropogenically-driven change in marine |
| | | | | | | | changes due to manageable | below). The status of the | | | indicators (Tett et al 2008. | waters. A possible (and cost-effective) solutio | scare due to their small size | | | ecosystems ((see McQuatters-Gollop et al. 2007 |
| | | | | | | | anthropogenic pressures and | plankton will then need to be | | | Margalef 1978, Le Quéré et al., | could be to undertake coastal zooplankton | so efforts would have to be | plankton will then need to be | | and references therein, McQuatters-Gollop et al. |
| | | | | | | | those due to climate and | assessed to determine the | | | 2005) and the comparative | sampling concomitant to SEPA and the | made to add sampling of | assessed to determine the | | 2008). |
| | | | | | | | natural variability. If a shift in | extent to which it is influenced | | | approach to separating climate- | Environment Agency's phytoplankton | this component to most | extent to which it is influenced | | |
| | | | | | | | lifeforms occurs in coastal | by anthropogenic pressures | | | and anthropogenically-driven | monitoring programme which periodically | existing time-series. | by anthropogenic pressures | | |
| | | | | | | | waters concomitantly with a | This approach is somewhat | | | change in marine ecosystems | collects phytoplankton samples in UK coastal | | This approach is somewhat | | |
| | | | | | | | pressure event (nutrient | aligned with the method | | | ((see McQuatters-Gollop et al. | waters, but that does not retain the | | aligned with the method | | |
| | | | | | | | | 'baseline set in the past' - | | | 2007 and references therein, | zooplankton component. it is important that | | | | |
| | | | | | | | loading, etc) and there is no | | | | | | | 'baseline set in the past' - | | |
| | | | | | | | corresponding shift in other | however we are not seeking to | | | McQuatters-Gollop et al. 2008), | plankton sampling occurs in all of the | | however we are not seeking to | | |
| | | | | | | | corresponding shift in other coastal time-series or in the | however we are not seeking to set baselines that reflect pristing | | | all recommended targets could | plankton sampling occurs in all of the ecohydrodynamic water types within UK | | however we are not seeking to set baselines that reflect pristing | e | |
| | | | | | | | corresponding shift in other coastal time-series or in the open ocean, the coastal shift | however we are not seeking to set baselines that reflect pristing conditions: the purpose of the | | | all recommended targets could be operationalised now. There | plankton sampling occurs in all of the ecohydrodynamic water types within UK waters (Figure 0 2). A map of ecohydrodynami | c | however we are not seeking to set baselines that reflect pristing conditions; the purpose of the | e | |
| | | | | | | | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an | however we are not seeking to set baselines that reflect pristing conditions; the purpose of the baseline is a point from which to | | | all recommended targets could be operationalised now. There is, however, a need to | plankton sampling occurs in all of the ecohydrodynamic water types within UK waters (Figure 0.2). A map of ecohydrodynami regions for the western shelf region of the UK | c is | however we are not seeking to set baselines that reflect pristing conditions; the purpose of the baseline is a point from which to | e 0 | |
| | | | | | | | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has | | | all recommended targets could be operationalised now. There is, however, a need to operationalise the lifeform | plankton sampling occurs in all of the ecohydrodynamic water types within UK waters (Figure 0.2). A map of ecohydrodynami regions for the western shelf region of the UK currently in development (Sonia Leeuwen, | c is | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has | e | |
| | | | | | | | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitorine is instated several | | | all recommended targets could be operationalised now. There is, however, a need to operationalise the lifeform approach and this would require | plankton sampling occurs in all of the ecohydrodynamic water types within UK waters (Figure 0 2). A map of ecohydrodynami regions for the western shelf region of the UK currently in development (Sonia Leeuwen, Cefas). Additional sampling stations (off shore | c is | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitorine is instant several | e 0 | |
| | | | | | | | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a correlation between the trend | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has | | | all recommended targets could be operationalised now. There is, however, a need to operationalise the lifeform approach and this would require the following: * Completion of a | plankton sampling occurs in all of the ecohydrodynamic water types within UK waters (Figure 0 2). A map of ecohydrodynami regions for the western shelf region of the UK currently in development (Sonia Leeuwen, Cefas). Additional sampling stations (off shore | c is | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has | e 0 | |
| 6 | 6.2 Condition of beathing | 6.7.2 Multi-metric indower | Polacir habitats | Change of plankton function of some | Ufe forms: Holeolankote | displace community and significantly influenced by anterconnection | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a correlation between the trend in lifeforms and anthropogenia | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where monitoring is instated, monitoring is instated, several years of data will be needed to | New Target | defined by 2017 & operational | all recommended targets could be operationalised now. There is, however, a need to operationalise the lifeform approach and this would require the following: • Completion of a map showing the | plankton sampling occurs in all of the ceohydrodynamic water types within UK waters (Figure 0.2). A map of ecohydrodynami regions for the western shelf region of the UK currently in development (Sonia Leeuwen, Cefas). Additional sampling stations (off shore and coastal for zooplankton) will need to be established around the UK as there are clear | Can be extracted from your | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitoring is instated, several years of data will be needed to | Directional / trend has not seem | Is. The use of plackton lifeforms for functional |
| 6 | 6.2 Condition of benthic community | 6.2.2: Multi-metric indexes assessing benthic community | Pelagic habitats | Change of plankton functional types | Life forms: Hologlankotn, | plainton community not significantly influenced by anthropogenic dovers. | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a correlation between the trend | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitorine is instated several | New Target | defined by 2012 & operational by 2014 | all recommended targets could be operationalised now. There is, however, a need to operationalise the lifeform approach and this would require the following: * Completion of a | plankton sampling occurs in all of the ecohydrodynamic water types within UK waters (Figure 0.2). A map of ecohydrodynami regions for the western shelf region of the UK currently in development (Sonia Leeuwen, Cefas). Additional sampling stations (off shore and coastal for 20oplankton) will need to be | Can be extracted from any dataset that identifies | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitorine is instant several | e Directional / trend based targe (direction of change) | is The use of plankton lifeforms (or functional revous) as indicators is well outlined in the |
| 6 | | | Pelagic habitats | | | planton community not significantly influenced by anthropogenic drivers | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a correlation between the trend in lifeforms and anthropogenia As plankton are primarily influenced by climate and | however we are not seeking to see baselines that reflect printing conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitoring is instated, several years of data will be needed to The baseline for a particular region or site can be set with | New Target | | all recommended targets could be operationalised now. There is, however, a need to operationalise the lifeform approach and this would require the following: • Completion of a map showing the The use of plankton lifeforms (or | plankton sampling occurs in all of the ecohydrodynamic water types within UK waters (Figure 0.2). A map of ecohydrodynamic egions for the western shelf region of the UK currently in development (Sonia Leeuwen, Cefas). Additional campling stations (off shore and coastal for zooglankton) will need to be established around the UK as there are claim. | dataset that identifies | however we are not seeking to set baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitoring is instated, several years of data will be needed to The baseline for a particular region or site can be set with | e Directional / trend based targe (direction of change) | groups) as indicators is well published in the |
| 6 | | assessing benthic community | Pelagic habitats | | | plackton community not significantly influenced by anthropogenic drivers | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a correlation between the trend in lifeforms and anthropogenia. As plankton are primarily influenced by climate and natural variability, difficulty lie in senarating out the | however we are not seeking to see baselines that reflect prisition conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitoring is instated, several years of data will be needed to The baseline for a particular region or site can be set with s existing historical data where available; however the | New Target | | all recommended targets could be operationalised now. There is, however, a need to operationalise the lifeform approach and this would require the following: • Completion of a map showing the The use of plankton lifeforms (or functional groups) as indicators is well published in the scientific literature. The approach | plankton sampling occurs in all off the couchydrodynamic unker hypes within UK waters (Figure 0.2). A map of cochydrodynamic regions for the waters held region of the UK Lurrently in development (Sonia Leeuwen, Carfa). Additional anapling stations (off short and costast for zooplankton) will need to be stabilished around the UK as there are clear stabilished around the UK as there are clear the plankton community is currently studied at a number of locations in UK waters (Figure 3-2) and its recommended that these should form the basis of a network of sampling from the sampling | dataset that identifies plankton using light microscopy and other | however we are not seeking to see baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has occurred. Where new monitoring is instated, several years of data will be needed to The baseline for a particular region or site can be set with existing historical data where washable because the historical data where | e Directional / trend based targe (direction of change) | groups) as indicators is well published in the scientific literature. The approach outlined here will compliment Water Framework Directive |
| 6 | | assessing benthic community | Pelagic habitats | | | plateton community not significantly influenced by anthropogenic drivers | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a correlation between the trend in lifeforms and anthropogenia. As plankton are primarily influenced by climate and natural variability, difficulty lie in separating out the anthropogenic changes. The | however we are not seeking to see baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has cocurred. Where new monitoring is instated, several years of data will be needed to The baseline for a particular region or site can be set with sexisting historical data where available; however the continuing influence of climate continuing influence or climate | New Target | | all recommended targets could be operationalised now. There is, however, a need to operationalise the lifeform approach and this would require the following: - Completion of a mag showing the The use of plankton lifeforms (or functional groups) as indicators is well published in the scientific literature. The approach outlined here will compliment | plankton sampling occurs in a lof the ecohydrodynamic user to pee without UK waters (Figure 0.2). A map of ecohydrodynamic regions for the waters shelf region of the UK currently in development (Soins Leowen, the control of the UK and coastal for complexation) will meet to be established around the UK as there are clear the plankton commonthy is currently in a number of locations in UK waters (Figure 2.2) and it is recommended that these should form the basis of a network of sampling stations. There are a number of peps, for | dataset that identifies plankton using light microscopy and other methods that resolve to spp | however we are not seeking to see baselines that reflect prisition conditions; the purpose of the baseline is a point from which to determine if a change has cocurred. Where new monitoring is instated, several years of data will be needed to The baseline for a particular region or site can be set with existing historical data where available; however the continuing influence of climate continuing influence or climate. | e Directional / trend based targe (direction of change) | groups) as indicators is well published in the scientific literature. The approach outlined here will compliment Water Framework Directive coastal phytoplankton monitoring currently |
| 6 | | assessing benthic community | Pelagic habitats | | | plankton community not significantly influenced by anthropogenic drivers | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a correlation between the trend in lifeforms and anthropogenic Application of the coastal shift could be a shift of the coastal variability, difficulty lie in separating out the anthropogenic changes. The comparison between the health of the comparison between the series of the coastal coast | however we are not seeking to see baselines that reflect prisition conditions; the purpose of the baseline is a point from which to determine if a change has cocurred. Where new monitoring is instated, several years of data will be needed to Tibe baseline for a particular region or site can be set with a seizing historical data where available, however the continuing influence of climate variability must be considered. | New Target | | all recommended targets could be operationalized now. There is, however, a need to operationalize the lifeform approach and this would require the following: - Completion of a map showing in the following: - Completion of a map showing the lifeforms (or functional group) as indicators is well published in the scientific literature. The approach outlined here will compliment Water Framework Directive | plankton campling occurs in a lid of the cockphordoyamati uset or pase without UK marker (Figure 0.2). A map of ecohydrodysmut contractly in development (Soria Leowene, Carlos). Additional sampling stations (off those and coastal for coopination) with meed to be established around the UK as there are clear that plankton commanding to currently studied at a number of locations in UK waters (Figure 2-2) and it is recommended that these should form the basis of a network of champling searangle there is intends sampling of searangle there is intends sampling of | dataset that identifies plankton using light microscopy and other methods that resolve to spp level(SAHFOS, Marine | however we are not seeking to see thaselines that reflect prisitions; the purpose of the baseline is a point from which to determine if a change has cocurred. Where new monitoring is instated, several years of data will be needed to the baseline is a paticular region or site can be set with existing historical data where available, however the continuing influence of climate variability must be considered. | Orectional / trend based targe [direction of change] | groups) as indicators is well published in the scientific literature. The approach outlined here will compliment Water Framework Directive coastal phytoplankton monitoring currently underway in UK waters. Due to the strong |
| 6 | | assessing benthic community | Pelagic habitats | | | planton community not significantly influenced by anthropogenic drivers | corresponding shift in other coastal time-series or in the open ocean, the coastal shift could be a response to an anthropogenic pressure, especially if there is a correlation between the trend inlifeforms and anthropogenic Acplantion are primarily influenced by climate and natural variability, difficulty lie in separating out the anthropogenic changes. The comparison between the changes in lifeform seasonal | however we are not seeking to see baselines that reflect pristin conditions; the purpose of the baseline is a point from which to determine if a change has baseline is a point from which to determine if a change has cocurred. Where new monitoring is instated, several years of data will be needed to The baseline for a particular region or site can be set with sexisting historical data where available; however the containing influence of climate variability must be considered and continuing influence of climate variability must be considered. | New Target | | all recommended targets could be operationalized now. There is, however, a need to operationalize the lifeform approach and this would require the following: - Completion of a map showing the many showing the life of the search of the searc | plantens ampling occurs in all of the cockybridynamic water bepre within LUL waters (Figure 0.2). A map of cochydrodynamic regions of the western but of the control of the control of control of the control of the control of control of the control of the control of control of the control of control of the control of control of the control of control of co | dataset that identifies plankton using light microscopy and other methods that resolve to spp level (SAHFOS, Marine Scotland sites, NOC, Cefas | however we are not seeking to the statelines that reflect pristin conditions; the purpose of the baseline is a point from which it determine if a change has occurred. Where new monitoring is instated, several years of data will be needed to The baseline for a particular region or site can be set with continuing influence of cimate variability, however the continuing influence of cimate variability must be considered and continually reviewed in the | o Orectional / trend based targe (direction of change) | groups) as indicators is well published in the scientific literature. The approach outlined here will compliment Water Framework Directive coastal phytoplankton monitoring currently underway in UK waters. Due to the strong evidence base underpinning both the lifeform |
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| 1 | 1.5 Habitat extent | 1.5.1 Habitat Area | Rock and biogenic reef habitats | Area of intertidal rock | Area measured in km2 or linear extent | Area is table or increasing and not smaller than the baseline value (Favourable Reference Area for HD habitats) | Target applies to all listed (special) & predominant habitat types. Energy / exposure sub-types should be considered in application of the target. A favourable reference area will be established for each habitat. | Different baselines may need to be used, depending on data availability - see Column S. | Existing Tanget | defined by 2012 & operational | Habitats Directive | Additional monitoring of Annex I Reef may be required under the Habitats Directive | All monitoring of Annex I Reef is conducted under the Habitats Directive. | Mixture of approaches (but see explanation in Column S) | Absolute Value (target set as baseline) OR Target set as deviation from baseline (See explanation in Column R) | Indicator specified in Commission Decision is already used across multiple policy obligations e.g. Habitats Directive. |
|---|-----------------------|---|------------------------------------|---|---|---|---|---|------------------|--|--------------------|---|--|--|---|---|
| 1 | 1.5 Habitat extent | 1.5.1 Habitat Area | Rock and biogenic reef | Area of subtidal rock | area measured as km2 / m2 | Area is stable or increasing and not smaller than the baseline value | Target applies to all listed | Different baselines may need to | Existing Target | by 2014 | Habitats Directive | Additional monitoring of Annex I Reef may be | All monitoring of Anney I | Mixture of approaches (but see | Absolute Value (target set as | Indicator specified in Commission Decision is |
| | 2.5 Padotal extent | LOLI HAURIAN PROJ | nook and biogenic reer habitats | Avea of Schoolal Fock | area measured as ontz / mz | over a scale of introducing and the billiance state one accommission of formulation feel ferrocce detect for PO habitats) | range appears to an insets (special) & predominant habitat types. Energy/ exposure sub-types should be considered in application of the target. | Contents assemble may need to be used, depending on data availability - see Column S. | Existing ranger. | | Habitats breeding | equined under the Habitats Directive | Red is conducted under the Habitats Directive. | explanation in Column 5) | bascinic Variety (any ex-ex- bascinic) (R Target set as deviation from basciline (See explanation in Column R) | material specimen in Colombia de Colombia |
| | | | | | | | | | | defined by 2012 & operational | | | | | | |
| 1 | 1.5 Habitat extent | 1.5.1 Habitat Area | Rock and biogenic reef | Area of littoral chalk habitat | area measured as km2 or linear | Area is stable or increasing and not smaller than the baseline value | Target applies to all listed | Different baselines may need to | Existing Target | by 2014 | Habitats Directive | Additional monitoring of Annex I Reef may be | All monitoring of Annex I | Mixture of approaches (but see | Absolute Value (target set as | Indicator specified in Commission Decision is |
| | | | habitats | | extent | (Pavourable Reference Area for HD habitats) | (special) & predominant habitat types. A favourable reference area will be established for each habitat. | be used, depending on data availability - see Column S. | | defined by 2012 & operational | | required under the Habitats Directive | Reef is conducted under the Habitats Directive. | explanation in Column S) | baseline) OR Target set as deviation from baseline (See explanation in Column R) | already used across multiple policy obligations e.g. Habitats Directive. |
| 1 | 1.5 Habitat extent | 1.5.1 Habitat Area | Rock and biogenic reef | Area of intertidal sea caves | Number of intertidal sea caves | Area is stable or increasing and not smaller than the baseline value | Target applies to all listed | Different baselines may need to | Existing Target | by 2014 | Habitats Directive | Additional monitoring of Annex I sea caves | All monitoring of Annex I | Mixture of approaches (but see | Absolute Value (target set as | Indicator specified in Commission Decision is |
| | | | habitats | | | (Favourable Reference Area for HD habitats) | (special) & predominant habitat types. A favourable reference area will be established for each habitat. | be used, depending on data availability - see Column S. | | defined by 2012 & operational | | may be required under the Habitats Directive | Reef is conducted under the Habitats Directive. | explanation in Column S) | baseline) OR Target set as deviation from baseline (See explanation in Column R) | already used across multiple policy obligations e.g. Habitats Directive. |
| 1 | 1.6 Habitat condition | | Rock and biogenic reef | Abundance of typical species on | Species composition/ richness | Maintain current species richness / diversity of biogenic structures | Target applies to all biogenic reefs. This indicator and target | Different baselines may need to | New Target | by 2014 | | Additional monitoring (specifically wider | All monitoring of Annex I | Mixture of approaches (details | Target set as deviation from | Rees et al . 2008; Sanderson et al. 2008. |
| | | species and communities | habitats | biogenic reef | | | reefs. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | be used - Extant data from some locations exists | | defends 2003 | | geographic coverage) of Annex I reef may be required under the Habitats Directive | Reef is conducted under the Habitats Directive. Application/monitoring of condition indicators have been focused largely with SACs. | in comments) | baseline | |
| | 1.6 Habitat condition | 1.6.1 Condition of the typical | Rock and biogenic reef | Density of biogenic reef forming | Numbers per unit area | Maintain current density of biogenic species at known locations with | Target applies to all biogenic | Different baselines may need to | New Target | defined by 2012 & operational by 2014 | New | Additional monitoring (specifically wider | All monitoring of Annex I | C) Current baseline | Target set as deviation from | Rees et al . 2008; Sanderson et al. 2008. |
| | 1.6 Fatital Continue | species and communities | habitats | Density of biogenic reer forming species | Numbers per unit area | oxamizaria current densery oi tologenia species ai kinown nications with biogenic structures | reafs. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | bine ent customers may need to be be used - Probably needs to be site specific until state model is understood E.g. Rees et al. 2008 | over target | defined by 2012 & operational | | productional monitoring (specificary would googs) and coverage) of Annex Fred may be required under the Habitats Directive | Reef is conducted under the Habitats Directive. Application/monitoring of condition indicators have been focused largely with SACs. | C) Current cossense | baseline | mees et al. 2006; samees on et al. 2006. |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical | Rock and biogenic reef | Subtidal species composition & | Abundance of taxa and/or % | Subtidal species composition is maintained | Target applies to subtidal reef. | Different baselines may need to | New Target | by 2014 | New | Additional monitoring (specifically wider | All monitoring of Annex I | E) Purely expert judgement | Target set as deviation from | |
| | | species and communities | habitats | abundance (sponge anthozoan community) | cover of taxon groups or diversity indices | | This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | be used. | | | | geographic coverage) of Annex I reef may be required under the Habitats Directive | Reef is conducted under the Habitats Directive. Application/monitoring of condition indicators have been focused largely with SACs. | | baseline | |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical | Rock and biogenic reef | Sponge diversity | Morphological richness and | Sponge morphological diversity / richness is maintained within regional | Target applies to subtidal reef. | Different baselines may need to | New Target | operational by 2018 | New | Additional monitoring (specifically wider | All monitoring of Annex I | Ai) Existing/Current reference | Target set as deviation from | Literature by Bell. |
| | | species and communities | habitats | | diversity measures | 5035 | This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | be used - Baselines from Wales but model response needs testing for Atlantic Europe | | operational by 2018 | | geographic coverage) of Annex I reef may be required under the Habitats Directive | Reef is conducted under the Habitats Directive. Application/monitoring of condition indicators have been focused largely with | conditions | baseline | |
| 2 | 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Rock and biogenic reef habitats | Intertidal species composition & abundance | Abundance and presence of species from full land reduced lists | Macrosligal species composition is maintained within regional seas | Target applies to intertidal reef. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | As for WFD tool (Reference conditions) | Existing Target | | | Additional monitoring (specifically wider geographic coverage) of Annes I red' may be required under the Habitats Directive | All monitoring of Annex I Reef is conducted under the Habilats Directive. Application/monitoring of condition indicators have been focused largely with SACs. This tool has to date been used in a WFD context. | Aii) Modelling of reference conditions | Target set as deviation from baseline | Wilkinson et al. |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical | Rock and biogenic reef | Epifaunal indicator species | Abundance per unit of area for | Proportion of erect fauna are maintained in circalittoral habitats | This indicator and target can | Different baselines may need to | New Target | operational now | WFD | Additional monitoring (specifically wider | All monitoring of Annex I | Mixture of approaches (details | Absolute Value (target set as | Evidence for sensitive species in circalittoral and |
| | | species and communities | habitats | | e.g. erect indicator taxa | | also be used to assess criterion 6.2 (condition of benthic community). | models may be needed in stratified habitat types to establish appropriate target levels | | defined by 2012 & operational by 2014 | New | geographic coverage) of Annex I reef may be required under the Habitats Directive | Reef is conducted under the Habitats Directive. Application/monitoring of condition indicators have been focused largely with | in comments) | baseline) | deep sea habitats needs to be compiled. |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Rock and biogenic reef habitats | Boulder turning index | Percentage cover of key species | Proportion of boulders with reference proportions of indicator brota- | This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | Different baselines may need to be used - Some data from Wales and N. France | New Target | | | Additional monitoring (psecifically wider geographic coverage) of Annex I reef may be required under the Habitats Directive | All monitoring of Annex I Reef is conducted under the Habilatts Directive. Application/monitoring of condition indicators have been focused largely with SACs. | C) Current baseline | Directional / trend based targets (direction of change) | Need for research to clinch environmental model. Recent French work may suffice. |
| | | | | | | | | | | defined by 2012 & operational by 2014 | New | | 1 | | | |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Rock and biogenic reef habitats | intertidal community indicator (MarClim) | SACFORN scale abundance. Semi-logarithmic abundance scale: Superabundant/Abundant/Com mon/Frequent/Occasional/Rare, Not seen. Rocky intertidal invertebrates Rocky intertidal macroalgae | Maintain native intertidal biodiversity | Target applies to intertidal reef. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | Different baselines may need to be used - based on MBA MarClim data | New Target | defined by 2012 & operational by 2014 | Nerw | Additional monitoring (specifically wider geographic coverage) of Annex I reef may be required under the Habitats Directive | All monitoring of Annex I Reef is conducted under the Habitats Directive. This indicator is in use for annual surveys since 2002 in UK for MarClim but incomplete geographic coverage. | Mixture of approaches (details in comments) | Directional / trend based targets (rate of change) | MarClim www.mba.ac.uk/marclim |
| | | | | | | • | • | • | | * | | | • | • | | |

| 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Rock and biogenic reef habitats | Kelp depth and kelp park depth | Max depth bcd at which kelp occurs and at which a specific density of kelp occurs. | Maintain the depth of kelp communities within a regional context | Target applies to subtidal reef. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | Different baselines may need to be used. Data available for parts of Wales to help set baselines. Historic data may also be retrievable from elsewhere. | New Target | | | Additional monitoring (specifically wider geographic coverage) of Annex I reef may be required under the Habitats Directive | All monitoring of Annex I Reef is conducted under the Habitats Directive. Application/monitoring of condition indicators have been focused largely with | C) Current baseline | Target set as deviation from baseline | Trials suggest good repeatable indicator. Care needed in site selection with appropriate geology. Links to turbidity need confirmation |
|---|--|------------------------------------|--|---|---|--|---|------------|---|---|---|---|--|---|--|
| 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Rock and biogenic reef habitats | Impact/Vulnerability of habitat to Penetration and/or disturbance of the substrate below the surface of the seabed' (Physical pressure) | Level of exposure of habitat to pressure "Penetration and/or disturbance of the substrate below the surface of the seabed | seed of exposure to pressure should not result in more than 'Moderate impact/vivineability' of the habitat (dependent on the sensitivity of the habitat to this pressures). | Target applies to all listed (special) & predominant habitat types. | Current baseline | New Target | operational by 2018 defined by 2012 & operational by 2014 | New Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. INCC Marine Ecosystem foam also developing maps of benthic habitati impact/vunlerability over next year. | Mixture of approaches (but see explanation in Column S) | Target (threshold in this case) set as deviation from baseline | High priority pressure indicator in terms of relative impact on benthic habitats. |
| 1.6 Habitat condition | 1.6.1 Condition of the typical | Rock and biogenic reef | Impact/Vulnerability of habitat to | Level of exposure of habitat to | Level of exposure to pressure should not result in more than 'Moderate | Target applies to all listed | Current baseline | New Target | defined by 2012 & operational | Benthic Habitat sensitivity | Additional monitoring of pressures may be | Physical damage and | Mixture of approaches (but see | Target (threshold in this case) | High priority pressure indicator in terms of |
| | species and communities | habitats | "Shallow abrasion/penetration: damage to seabed surface and penetration" (Physical pressure) | pressure 'Shallow abrasion/penetration: damage to seabed surface and penetration' | Impact/Vulnerability of the habitat (dependent on the sensitivity of the habitat to this pressures) | (special) & predominant habitat types. | | | by 2014 | assessments undertaken via NE/JNCC Marine Conservation Zone project | required and will be covered by the UK Biodiversity Monitoring Programme. | removal of species already being mapped/monitored by Cefas. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | explanation in Column S) | set as deviation from baseline | relative impact on benthic habitats. |
| 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Rock and biogenic reef habitats | Impact/Vulnerability of habitat to Surface abrasion: damage to seabed surface features' (Physical pressure) | Level of exposure of habitat to pressure 'Surface abrasion: damage to seabled surface features' | level of exposure to pressure should not result in more than 'Moderate inspact/fulnmatily' of the habitat (dependent on the sensitivity of the habitat to this pressures) | Target applies to all listed (special) & predominant habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/IMCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Biodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Gefas. INCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | Mixture of approaches (but see explanation in Column S) | Target (threshold in this case) set as deviation from baseline | sligh priority pressure indicator in terms of relative impact on benthic habitats. |
| 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Rock and biogenic reef habitats | Impact/Vulnerability of habitat to 'Removal of target species' (Biological pressure) | Level of exposure of habitat to pressure 'Removal of target species' | Level of exposure to pressure should not result in more than 'Moderate inspact's definition and the sensitivity of the habitat (dependent on the sensitivity of the habitat to the pressurery) that the pressurery of the habitat to the pressurery | habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Biodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. INCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | explanation in Column 5) | set as deviation from baseline | High priority pressure indicator in terms of relative impact on benthic habitats. |
| 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Rock and biogenic reef habitats | impact/Vulnerability of habitat to 'Removal of non-target species' (Biological pressure) | Level of exposure of habitat to pressure 'Removal of non-target species' | level of expoures to pressure should not result in more than *Noderate longer/Livinezability of the habitat (dependent on the sensitivity of the habitat to this pressures) | Target applies to all listed (special) & predominant habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | Mixture of approaches (But see explanation in Column 5) | Target (threshold in this case) set as deviation from baseline | right priority pressure indicator in terms of relative impact on benthic habitats. |
| 6.1 Physical damage havir regard to substrate characteristics | g 6.1.2 Extent of the seabed significantly affected by human activities for the different substrate types | Rock and biogenic reef habitats | Impact/Vulnerability of habitat to Penetration and/or disturbance of the substrate below the surface of the seabed (Physical pressure) | Level of exposure of habitat to pressure "Penetration and/or disturbance of the substrate below the surface of the seabed | level of exposure to pressure should not result in more than 'Moderate respectiveleneability' of the habitat (dependent on the sensitivity of the habitat to this pressures). | Target applies to all listed (special) & predominant habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. INCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | Mixture of approaches (but see explanation in Column 5) | Target (threshold in this case) set as deviation from baseline | High priority pressure indicator in terms of relative impact on benthic habitats. |
| 6.1 Physical damage havir | g 6.1.2 Extent of the seabed | Rock and biogenic reef | Impact/Vulnerability of habitat to | Level of exposure of habitat to | Level of exposure to pressure should not result in more than 'Moderate | Target applies to all listed | Current baseline | New Target | defined by 2012 & operational | Benthic Habitat sensitivity | Additional monitoring of pressures may be | Physical damage and | Mixture of approaches (but see | Target (threshold in this case) | High priority pressure indicator in terms of |
| regard to substrate characteristics | significantly affected by human activities for the different substrate types | habitats | "Shallow abrasion/penetration: damage to seabed surface and penetration" (Physical pressure) | pressure 'Shallow abrasion/penetration: damage to seabed surface and penetration' | Impact/Vulnerability of the habitat (dependent on the sensitivity of the habitat to this pressures) | (special) & predominant habitat types. | | | by 2014 | assessments undertaken via NE/JNCC Marine Conservation Zome project | required and will be covered by the UK Biodiversity Monitoring Programme. | removal of species already being mapped/monitored by Cefas. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | explanation in Column S) | set as deviation from baseline | relative impact on benthic habitats. |
| 6.1 Physical damage havir regard to substrate characteristics | g 6.1.2 Extent of the seabed significantly affected by human activities for the different substrate types | Rock and biogenic reef habitats | Impact/Vulnerability of habitat to Surface abrasion: damage to seabed surface features' (Physical pressure) | Level of exposure of habitat to pressure Surface abrasion: damage to seabed surface features' | Genet of exposure to pressure should not result in more than 'Moderate mapscript/wineability of the hibbit (dependent on the sensitivity of the hubbat to this pressures) | Target applies to all listed (special) & predominant habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | Mixture of approaches (but see explanation in Column 5) | Target (threshold in this case) set as deviation from baseline | High priority pressure indicator in terms of relative impact on benthic habitats. |
| 6.1 Physical damage havir regard to substrate characteristics | g 6.1.1 Type, abundance, biomass and areal extent of relevant biogenic substrate | Rock and biogenic reef habitats | Area of subtidal biogenic structures | Area measured in ha OR numbe of units of occurrence (Skm2?). | Area is stable or increasing and not smaller than the baseline value (Eurourable Reference Area for HD habitats) | Target applies to all listed (special) & predominant habitat types. A favourable reference area will be established for each habitat. | Different baselines may need to be used, depending on data availability - see Column S. | New Target | defined by 2012 & operational | Habitats Directive | Additional monitoring of Annex I Reef may be required under the Habitats Directive | All monitoring of Annex I Reef is conducted under the Habitats Directive. | Mixture of approaches (but see explanation in Column S) | Absolute Value (target set as baseline) OR Target set as deviation from baseline (See explanation in Column R) | Indicator specified in Commission Decision is aiready used across multiple policy obligations e.g. Habitats Directive. |
| 6.1 Physical damage havir regard to substrate characteristics | g 6.1.1 Type, abundance, biomass and areal extent of relevant biogenic substrate | Rock and biogenic reef habitats | Density of biogenic reef forming species | Numbers per unit area | Maintain current density of biogenic species at known locations with biogenic structures | Target applies to all biogenic reefs. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | Different baselines may need to be used - Probably needs to be site specific until state model is understood E.g. Rees et al. 2008 | New Target | defined by 2012 & operational | | Additional monitoring (specifically wider geographic coverage) of Annex I reef may be required under the Habitats Directive | All monitoring of Annex I Reef is conducted under the Habitats Directive. Application/monitoring of condition indicators have been focused largely with SACs. | C) Current baseline | Target set as deviation from baseline | Rees et al. 2008; Sanderson et al. 2008. |
| 1.4 Habitat distribution | 1.4.1 Distributional range | Sediment habitats | Distributional range of habitat | Location of habitat (NGR / lat/long) | Range is stable or increasing and not smaller than the baseline value (Favourable Reference Range for HD habitats) | Target applies to all listed (special) & predominant habitat types. | Different baselines may need to be used, depending on data availability - see Column S. | New Target | by 2014 | New Habitats Directive | Yes | Some monitoring of Annex I Sediment Habitats (e.g. Shallow Sandbanks) is conducted under the Habitats Directive. | Mixture of approaches (but see explanation in Column 5) | Absolute Value (target set as baseline) OR Target set as deviation from baseline (See explanation in Column R) | Indicator specified in Commission Decision is already used across multiple policy obligations e.g. Habitats Directive. |
| | | | | | | 1 | | | defined by 2012 & operational by 2014 | | | | | | |
| 1.4 Habitat distribution | 1.4.2 Distributional pattern | Sediment habitats | Distributional pattern of habitat | Spatial extent of habitat (ha) Location of habitat (NGR / lat/long) Spatial distribution of habitat (NGR / Lat/long) Boundary of habitat (NGR /lat/long) | Spatial distribution is stable | Target applies to all listed (special) & predominant habitat types. | Different baselines may need to be used, depending on data availability - see Column S. | New Target | defined by 2012 & operational | New | Yes | Some monitoring of Annex I Sediment Habitats (e.g. Shallow Sandbanks) is conducted under the Habitats Directive. | Mixture of approaches (but see explanation in Column S) | Absolute Value (target set as baseline) OR Target set as deviation from baseline (See explanation in Column R) | Indicator specified in Commission Decision is already used across multiple policy obligations e.g. Habitats Directive. |

| 1 | 1.5 Habitat extent | 1.5.1 Habitat Area | Sediment habitats | Area of sediment habitat | Spatial extent of habitat (ha) | Option 1: area of habitat tost + area of habitat below GES ≤ 10% Option 2: area of habitat tost + area of habitat below GES ≤ 15% | Predominant habitat types | Different baselines may need to be used, depending on data availability - see Column S. | New Target | defined by 2012 & operational | Now | Yes | Some monitoring of Annex I Sediment Habitats (e.g. Shallow Sandbanks) is conducted under the Habitats Directive. | Mixture of approaches (but see explanation in Column S) | Absolute Value (target set as baseline) OR Target set as deviation from baseline (See explanation in Column R) | Indicator specified in Commission Decision is already used across multiple policy obligations e.g. Habitats Directive. |
|---|-----------------------|--|-------------------|--|---|--|---|--|-----------------|--|--|---|--|--|---|--|
| | | | | | | | | | | by 2014 | | | | | | |
| 1 | 1.5 Habitat extent | 1.5.1 Habitat Area | Sediment habitats | Area of sediment habitat | Spatial extent of habitat (ha) | Area is stable or increasing and not smaller that the baseline value Fourcardise Reference Area for this habitate. Area for this habitate WTD extent targets for salaments and eagures should be used within WTD boundaries as peoporatis. These resume Good Googleg of the benefits (invertebrates, mucroalge and angiosperms. No deterioration between classes for legific/Goof/Moderate/Poor/Bad districtions or water bodies premitted under WTD. For seagness good/moderate on boundary is 230% to so at the waterbody but in poundary is 230% to so at the waterbody but in the company of the source of the source of the company of the poundary is 250% to so at the waterbody of the source of the poundary of the poundary of the poundary of the source of the poundary of the poundary of the source of the poundary of the poundary of the source of source br>source sou | All listed (special) habitat types | Different baselines may need to be used, depending on data availability - see Column S. | New Target | | Habitats Directive and WFD | Yes | Some monitoring of Annex I Sediment Habitats (e.g. Shallow Sandbanks) is conducted under the Habitats Directive. | Mixture of approaches (but see explanation in Column S) | Absolute Value (target set as baseline) OR Target set as deviation from baseline (See explanation in Column R) | Indicator specified in Commission Decision is already used across multiple policy obligations e.g. Habitats Directive. |
| | | | | | | | | | | defined by 2012 & operational by 2014 | | | | | | |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical | Sediment habitats | WFD seagrass tool | Ecological Quality Ratio based | Targets should be aligned with those set under WFD. These ensure Good | applies to special habitat | Reference conditions are | Existing Target | by 2014 | WFD | Monitoring for WFD can be adapted and | WFD | Mixture of approaches (details | Target set as deviation from | Evidence base considered in detail for WFD tool |
| | | species and communities | | | on the species composition, density and extent of cover of seagrass communities | ecological status of angiosperms. No deterioration between classes for Plagify Good/Moderfly-Proo/Blad classifications of water bodies permitted under WFD. | Zostera': This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | derived using a combination of historic data and expert judgement | | operational now | | extended where necessary | | In comments) | baseline | development |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical | Sediment habitats | Infaunal Quality Index | Ecological Quality Ratio based | Targets should be aligned with those set under WFD. These ensure Good | Proposed for all predominant | Reference conditions are | Existing Target | operational now | WFD | Monitoring for WFD can be adapted and | WFD | Mixture of approaches (details | Target set as deviation from | Evidence base considered in detail for WFD tool |
| | | species and communities | | | on the sensitivity, richness and diversity (evenness) of benthic communities | ecological status of benthic inventedrates. No diretrioration between clauses for high/cologorate/broo/flast classifications of water bodies permitted under WPD. | habitats as well as the special habitat, intertidal muditats. However - it is currently not applicable to coarse habitats and for assessing response to physical pressures. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | derived using a combination of best available low pressure data and expert judgement with reference conditions being adapted according to habitat. | | operational now | | extended where necessary | | in comments) | baseline | development |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical | Sediment habitats | Opportunistic macroalgae | identification and collection for | Targets should be aligned with those set under WFD. These ensure Good | applicable to intertidal | Reference conditions are | Existing Target | | WFD | Monitoring for WFD can be adapted and | WFD | Mixture of approaches (details | Target set as deviation from | Evidence base considered in detail for WFD tool |
| | | species and communities | | | measurement of macroalgal bloom algae (opportunistic nuisance weed) at a shore site, for the purpose of estimating the Ecological Quality Ratio | ecological status of macroalgae. No deterioration between classes for Pelgly Goodyl Modern (Part Organization Company) and classifications of water bodies permitted under WFD. | mudflats (and possibly sandflats) in coastal and transitional waters. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | derived using a combination of historic data and expert judgement | | | | extended where necessary | | in comments) | baseline | development |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical | Sediment habitats | Saltmarsh WFD classification tool | Ecological Quality ratio based on | Targets should be aligned with those set under WFD. These ensure Good | applies to special habitat | Reference conditions are | Existing Target | operational now | WFD | Monitoring for WFD can be adapted and | WFD | Mixture of approaches (details | Target set as deviation from | Evidence base considered in detail for WFD tool |
| | | species and communities | | | the diversity, extent and zonation of intertidal saltmarsh habitats | ecological status of angiosperms. No deterioration between classes for High Discoll Abdord Prince (Plant Classifications of water bodies permitted under WFD. | 'Atlantic salt meadows (Glauco- puccinellicatals marifitmae)' and other special habitats as appropriate (this indicator is still under development). This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | judgement | | defined by 2012 & operational by 2014 | | extended where necessary | | in comments) | baseline | development |
| 1 | 1.6 Habitat condition | 1.6.3 Physical, hydrological & chemical conditions | Sediment habitats | Sediment profile imaging | Benthic Habitat Quality (BHQ) derived from Sediment profile imaging | BIGIC in appropriate range according to florenburg et al 2009. | Applicable to soft sediments but methodology not fully developed and could be issues with mobile coarse sediment and the deep sea - applicable to all habitats as this indicator repeated across habitats. This indicator and target can also be used to assess criterion 6.2 (condition of benthic community). | i) Purely expert judgement | New Target | defined by 2012 & operational by 2014 | New | rec. For both Sediment profile imaging and also for accompanying ground-truth surveys | None | Purely expert judgement | Target set as deviation from baseline | Societizing at all 2009 for Birth and various for Sediment profile imaging (see report). |
| 1 | | 1.6.1 Condition of the typical species and communities | Sediment habitats | 'Penetration and/or disturbance of the substrate below the surface of the seabed' (Physical damage) | pressure "Penetration and/or disturbance of the substrate below the surface of the seabed | seed of expoure to pressure thought of the tradit in more than Moderate impacts Valentially of the habitst (dependent on the sensionly of the habitst to this pressures) | (special) & predominant habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Biodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. JNCC Marine Eccosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | explanation in Column S) | set as deviation from baseline | High priority pressure indicator in terms of relative impact on benthic habitats. |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Sediment habitats | Impact/Vulnerability of habitat to 'Shallow abrasion/penetration: damage to seabed surface and penetration' (Physical damage) | Level of exposure of habitat to pressure Shallow abrasion/penetration: damage to seabed surface and penetration' | level of expoure to pressure thought on treat in more than Moderate impact/Valenzabile of the habitat (dependent on the sensitivity of the habitat to this pressures) | (special) & predominant habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Bloodwersity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefaz. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | Militure of approaches (but see explanation in Column 5) | set as deviation from baseline | High priority pressure indicator in terms of relative impact on benthic habitats. |
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Sediment habitats | Impact/Vulnerability of habitat to 'Surface abrasion: damage to | Level of exposure of habitat to pressure 'Surface abrasion: | Level of exposure to pressure should not result in more than 'Moderate Impact/Vulnerability' of the habitat (dependent on the sensitivity of the | Target applies to all listed (special) & predominant | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via | Additional monitoring of pressures may be required and will be covered by the UK | Physical damage and removal of species already | Mixture of approaches (but see explanation in Column S) | Target (threshold in this case) set as deviation from baseline | High priority pressure indicator in terms of relative impact on benthic habitats. |
| | | | | seabed surface features' (Physical damage) | damage to seabed surface features' | habitat to this pressures) | habitat types. | | | | NE/INCC Marine Conservation Zone project | required missing the control of the | being mapped/monitored by Cefas. INCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | , | | |

| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Sediment habitats | 'Removal of target species' | Level of exposure of habitat to pressure 'Removal of target species' | Earl of engineer to pressure should not result in more than Yodynta- mages/Workshifty of the habitat (dependent on the sensitivity of the habitat to this pressures) | Target applies to all listed (special) & predominant habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. INCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | explanation in Column S) | Target (threshold in this case) set as deviation from baseline | High priority pressure indicator in terms of redative impact on benthic habitats. |
|---|--|---|-------------------|--|--|--|---|------------------|------------|--|--|---|--|---|---|---|
| 1 | 1.6 Habitat condition | 1.6.1 Condition of the typical species and communities | Sediment habitats | 'Removal of non-target species' | Level of exposure of habitat to pressure 'Removal of non-target species' | Lend of exposure to pressure should not result in more than Youldestein managed. When all the think that (dependent on the sensitivity of the habitat to this pressures) | Target applies to all listed (special) & predominant habitat types. | Current baseline | New Target | defined by 2012 & operational by 2014 | assessments undertaken via | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | explanation in Column S) | | High priority pressure indicator in terms of relative impact on benthic habitats. |
| 6 | 6.1 Physical damage having regard to substrate characteristics | 6.1.2 Extent of the seabed significantly affected by buman activities for the different substrate types | Sediment habitats | 'Penetration and/or disturbance of the substrate below the surface of | | seed of exposure to pressure should not result in more than Moderate mapscat/Numerality of the habitat (dependent on the sensitivity of the habitat to this pressures) | | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | explanation in Column S) | | High prior thy pressure indicator in terms of relative impact on benthic habitats. |
| 6 | 6.1 Physical damage having negard to substrate characteristics | 6.1.2 Extent of the seabed significantly affected by burnan activities for the different substrate types | Sediment habitats | 'Shallow abrasion/penetration: | Level of exposure of habitat to pressure Shallow abrasion/penetration: damage to seabed surface and penetration' | level of exposure to pressure should not result amove than Moderate manager (which will be a manager (when habitat to the pressures) the habitat to this pressures) | | Current baseline | New Target | defined by 2012 & operational by 2014 | assessments undertaken via | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | | | High priority pressure indicator in terms of relative impact on benthic habitats. |
| 6 | 6.1 Physical damage having regard to substrate characteristics | 6.1.2 Extent of the seabed significantly affected by human activities for the different substrate types | Sediment habitats | 'Surface abrasion: damage to | Level of exposure of habitat to pressure Surface abrasion: damage to seabed surface features' | use of elapsore to pressure should not result an more than Moderate mapset/Numerality of the habitat (dependent on the sensitivity of the habitat to this pressures) | | Current baseline | New Target | defined by 2012 & operational by 2014 | Benthic Habitat sensitivity assessments undertaken via NE/INCC Marine Conservation Zone project | Additional monitoring of pressures may be required and will be covered by the UK Blodiversity Monitoring Programme. | Physical damage and removal of species already being mapped/monitored by Cefas. JNCC Marine Ecosystem Team also developing maps of benthic habitat impact/vulnerability over next year. | Mixture of approaches (but see explanation in Column 5) | | High priority pressure indicator in terms of relative impact on benthic habitats. |

| Evidence-base_for_target_DETAILS | Evidence-base_for_baseline_DETAILS | Comments on indicator | Comments on targets | North East Atlantic Scale? | OSPAR Region? | UK Regional Sea (CP2)? | CSEG Regional Sea? | Local Scale (e.g. MPA / WFD waterbody) | Patch scale (e.g. seagrass bed) |
|---|--|---|--|-------------------------------|------------------|---------------------------|--------------------|--|------------------------------------|
| Britain & Ireland. T. & ADPoyer; \$11pp.) | Out & tricked seabed consuces (e.g. Michaell et al. (2004) Seabed Populations of floatina & retions 1. Pro/Propres, 513pp.) heed close criteria for selecting baseline years. | | For breeding assisted colony distributions targets a pragmants, approach to proporting on changes the distribution of contribution has been proposed. UK regional sea boundaries would be too large even to pick up unisulated changes the proposed of the proposed of the proposed of the proposed of the facility countries and Section where countries are the reporting united for selected distributional range and pattern, given that other units e.g. Library sits opposed on a view will well haviorate colonies that are forth distanced by Organic, not nevel will well advocate colonies that are often distanced by Organic, not nevel will well associate to processes and positions at a social level at which missioners may be implemented. | Yes | Yes | Yes | Yes | No | No |
| Target set in accordance with the precision of estimated trends from the new time series i.e. ability to detect significant change. | Baseline set at start of new time series. | Such an indicator would be unsuitable for inchore and orthore aggregations of bashing species (separe) inchore gail records that rend to be more wish-ranging than inchore waterbird species because the extremities of the range of wish- ranging species are unsulkey provide an Indicator of GES. More pretinent to GES of wide-ranging seaborist as sea will be an indicator of distributional pattern [1.2.1] that will destribution of high and low density areas that may be linked to the distribution and intensity of pressures. | | Yes | Yes | Yes | Yes | No | No |
| | Need clear criteria for selecting baseline years. | These surveys known to have gaps. Need GIS file of MSFD area to select relevan data for non-transitional waters | | Yes | Yes | Yes | Yes | No | No |
| | Need dear criteria for selecting baseline years. | These surveys known to have gaps. Need GIS file of MSFD area to select relevan data for non-transitional waters | | Yes | Yes | Yes | Yes | No | No |
| | Need clear criteria for selecting baseline years. | | For breeding readwist collowy distributions tragetes a pragmantic approach to programing and haspes the distributions of collection has been proposed. UK regional as a boundaries would be too large even to pick up unbuthantic changes to the programme of the programme of the programme of the programme of the collection can be control to the countries of the programme of the consistent distributional range and pattern, given that other units e.g. Divine grid squared distributional range and pattern, given that other units e.g. Divine grid squared on or union will write for a control of the programme of the programme of the down town will write for the control of the programme of the distribution of the programme of the programme of the distributions are recording does also enable feedback to processes and policies at a local level at which memorate may be implemented in call level at which memorate may be implemented in the control of the control of the call level at which memorate may be implemented and the control of the control of the call level at which memorate may be implemented and the control of the control of the call level at which memorate in the control of the control of the call level at which memorate in the call level at which memorate in the control of the control of the call level at which memorate in the control of the control of the call level at which memorate in the control of the control of the call level at the control of the call level at the call level at the control of the control of the call level at call level at the control of the control of the call l | Yes | Yes | Yes | Yes | No | No |
| Target set in accordance with the precision of estimated trends from the new time series i.e. ability to detect significant change. | Baseline set at start of new time series. | | | Yes | Yes | Yes | Yes | No | No |
| Target set in accordance with the precision of estimated trends from the new time series i.e. ability to detect significant change. | Raseline set at start of new time series. | An indicator of distributional pattern (1.1.2) is more periment to GIS of wide- rapping easibiret has indicator of distributional range (1.1.1). An indicator of distributional pattern should detect changes in the distribution of high and to whenly area them two be linked to the distribution and interesting of pressures. Whereas, an indicator of range would be unsuitable for inshore and other a gangeristion of sealers species that end to be more wide enging that mishore witerfived species because the extremittee of the range of wide-ranging species are unlikely provided as indicator of the species and the species are suitable of the species and the species are suitable of the species and the species are suitable of the species are suitable of the species and the species are suitable of the species are species are suitable of the species are suitable of the species are species are suitable of the species are suitable of the species are species are suitable of the species are suitable of the species are species and species are species ar | | Yes | Yes | Yes | Yes | No | No |
| | Need clear criteria for selecting baseline years. | | | Yes | Yes | Yes | Yes | No | No |
| | Need clear criteria for selecting baseline years. | | | Yes | Yes | Yes | Yes | No | No |
| CGS 2008. Report of the Workshop on Seabler Ecological Quality Indicator. CE CGS 2008. Report of the Workshop on Seabler Ecology (WGSSE), ICIS CM CGS, 2008. Report of the Working Group on Seablerd Ecology (WGSSE), ICIS CM 2009.00001152 77 pp. | SCS. 2008. Report of the Workshop on Seabird Ecological Quality Indicator. ICSL VM 2008. LCGs. 609. Report of the Workshop on Seabird Ecology (WCSS), ICSS CM 2010. Report of the Workshop Group on Seabird Ecology (WCSS), ICSS CM 2010. Report of the Workshop Group on Seabird Ecology (WCSS), ICSS CM 2010. Report of the Workshop Group on Seabird Ecology (WCSS), ICSS CM 2010. Report of the Workshop Group on Seabird Ecology (WCSS), ICSS CM 2010. Report of the Workshop on Seabird Ecology (WCSS), ICSS CM 2010. Re | Re. Breeding subsiries: same institutions as recommended for DSPM draft for DSPM | Target based on an OSPAR draft EcoQO on eather population french as an index of sasker's community health. EcoQO is currently under development. | Yes | Yes | Yes | No | No | No |
| CAL 2008/JACCOS. 60 pp. ICES. 2010. Report of the Working Group on Seabird Ecology (WGSE), ICES CM 2010/SSGEF-10. 77 pp. | S ICES, 2008. Report of the Workshop on Seabird Ecological Quality Indicator. ICES Qual 2008/LECS, 60 pp. ICES, 2010. Report of the Working Group on Seabird Ecology (WGSE), ICES CM 2010/SSGEF-10. 77 pp. | population trends as an index of seabird community health. UK Seabird Monitoring Programme currently reports on UK species specific trends in abundance of breeding seabirds at http://jpcc.defra.gov.uk/page-3201 | Target based on an OSPAR deaft. ECOLO on seabord population trends as an index of seabord community health. EcoLO is currently under development. | Yes | Yes | Yes | No | No | No |
| CIGS. 2008. Report of the Workshop on Seabird Ecological Quality Indicator. ICE Que 2008/QLCGs. 60 pp. do- ICES. 2010. Report of the Working Group on Seabird Ecology (WGSE), KES CM 2010/SSGIF:10. 77 pp. | S CES. 2008. Report of the Workshop on Seabird Ecological Quality Indicator. ICS CAN 2008/LECS. 60 pp. ICES. 2010. Report of the Working Group on Seabird Ecology (WGSE), ICES CM 2010/SSGEF-10. 77 pp. | Same as indicators recommended for CGPAR draft ExcOD on eashed population trends an index of seabler community health. UK Seablerd Monitoring Programme currently reports on UK species specific trends in abundance of breeding seablerds at http://jr.cc.defra.gov.uk/jage-3001 | Target based on an OSPAR GRIF ECOCO on seaberd population trends as an index of seaberd community health. ECOCO is creately under development. NB. The current recommendations from ICES for a draft ECOCO on Seaberd Population Trends induced an upper bound of 130% for all species specific indicators of abundance, but it would seem inappropriate in the context of GES, unless an increase in abundance of a particular species would have a detrimental effect on another species arthering GES. | Yes | Yes | Yes | No | No | No |
| Targets to be set in accordance with the precision of estimated trends from the new time series i.e. ability to detect significant change. | a) non-breeding thorestocks. Need class criteria for selecting baseline years. b) onchore non-beeding shorestocks and seabhrds at sea require baseline to be set at start of new time series. | | | Yes | Yes | Yes | No | No | No |

| | - | | | | | | | | | |
|---|--|--|---|--|---|---|---|---|----------------|--|
| | Targets equal 95% confidence limits around a statistically significant | Statistically significant relationship between breeding success of kittiwakes and | UK Seabird Monitoring Programme currently reports on UK species specific | OSPAR tried to develop an EcoQO on kittiwake breeding success but this used an | Yes | Yes | Yes | No | No | No |
| The Charles for an internal control of the charles | relationship between breeding success of kittiwakes and local sea-surface | iocal sea-surrace temperature (in winter 2 years previous) at individual colonies; | trends in abundance of breeding seabirds at http://jncc.defra.gov.uk/page- | absolute value target of 0.6 chicks per pair, which did not take into account the | | | 1 | | 1 | 1 |
| And the common and th | 95% of breeding success values would lie if the relationship with SST is true) | availability. Known additional measurable impact of presence of sandeel | & Shae) | Further work needed to determine assessment areas and determine announciate | | | | | | |
| Service of the control of the contro | The relationship with SST is thought to be related to interannual variation in | fisheries at some colonies. See Frederiksen et al. (2004 J Animal Ecol. 41: | u sing) | | | | | | | |
| | candeel recruitment and availability. Known additional measurable impact of | 1129-1139; 2007 Mar Ecol Prog Ser 352: 205-211.) | | | | | | | | |
| | presence of sandeel fisheries at some colonies. See Frederiksen et al. (2004 J | | | | | | | | | |
| The control of the first t | Animal Ecol, 41: 1129–1139 ; 2007 Mar Ecol Prog Ser 352: 205–211.) | | | | | | | | | |
| | Breeding success should be within the target band in at least five years in each | | | | | | | | | |
| The state of the control of the cont | depress breeding success (e.g. heavy rainfall). | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | there is no strong middens have for the target values proposed. The aim of the | | LIV Sorbird Monitoring Programme currently reports on LIV species specific | | Vor | Vor | Vor | Mo | No | No |
| The proposal contains and a serious of a principal of a principal for a principal of a principal | target (xS.15% of colonies) is to ensure that only a small proportion of colonies | | trends in breeding success of seabirds at http://jncc.defra.gov.uk/page-3201. | | | | | | | |
| The control of the co | fail per year, probably due to local problems, rather than any large scale | | | | | | | | | |
| The contract of the size of th | anthropogenic impact, the aim of the target of 3 years out of six is to ensure | | | | | | | | | |
| The state of the control of the cont | that the cumulative effect of successive failures does not have a significant impact on recruitment into on the LIK or regional population. | | | | | | | | | |
| The control of the process of the pr | | | | | | | | | | |
| The control of the process of the pr | | | | | | | | | | |
| The control of the process of the pr | | | | | | | | | | |
| The control of the process of the pr | | | | | | | | | | |
| The control of the process of the pr | | | | | | | | | | |
| The control of the process of the pr | | | | | | | | | | |
| The second property and the se | | | | | Yes | Yes | Yes | No | No | No |
| Section 1. | required to meet target's for Population Size (criterion 1.2) | | | | | | | | | |
| sender and vigo all both in security or principle and in security or princ | | | | | | | | | | |
| sender and vigo all both in security or principle and in security or princ | | | | | | | | | | |
| sender and vigo all both in security or principle and in security or princ | | | | | | | | | | |
| Septimber 1 for the control of the c | | | | | res | res | res | TWS | 145 | res |
| Section of the control of the contro | and any on another transfer of endoated of fals. | | The second secon | native mammal predators such as rat and mink. They also list 19 other islands | | | 1 | | 1 | 1 |
| Section of the control of the contro | | | | where rats would be eradicated from in order to create suitable and safe nesting | | | 1 | | 1 | 1 |
| and the secondary of all all control region for regions for secondary and all control regions for regions | | | | habitat for petrels and shearwaters and other ground-nesting seabirds. | 1 | l | 1 | | 1 | 1 |
| and the secondary of all all control region for regions for secondary and all control regions for regions | Requires population modellies to estimate the levels of adult and the | + | | | Vor | Voc | Vor | Was | Voc | Vor |
| support space 17% confidence forms amounted activation's general activation and the properties of the second properties of the secon | requires population modelling to estimate the levels of adult mortality that | | | | Yes | res | Yes | res | res | res |
| augm right DSL combines from smooth a statistically significant in common and a statistical stat | parameters) and still achieve targets for Population Size (criterion 1.2). | | | | | l | 1 | | 1 | |
| Sections by the event with the properties of 15 minutes are settled as comparing access of the image are precised as the final properties of 15 minutes are settled as the properties of 15 minutes ar | , | | | | | | | | | |
| Sections by the event with the properties of 15 minutes are settled as comparing access of the image are precised as the final properties of 15 minutes are settled as the properties of 15 minutes ar | | | | | | | 1 | | 1 | 1 |
| Sections by the event of the section | | | | | | | | | | |
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| Sections by the event of the section | | | | | | | | | | |
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| Sections by the event with the properties of 15 minutes are settled as comparing access of the image are precised as the final properties of 15 minutes are settled as the properties of 15 minutes ar | | | | | | | | | | |
| Sections by the event with the properties of 15 minutes are settled as comparing access of the image are precised as the final properties of 15 minutes are settled as the properties of 15 minutes ar | | | | | | | | | | |
| Sections by the event of the section | | | | | | | | | | |
| Sections by the event of the section | | | | | | | | | | |
| Sections by the event with the properties of 15 minutes are settled as comparing access of the image are precised as the final properties of 15 minutes are settled as the properties of 15 minutes ar | | | | | | | | | | |
| Sections by the event of the section | | | | | | | | | | |
| Sections by the event of the section | | | | | | | | | | |
| Sections by the event with the properties of 15 minutes are settled as comparing access of the image are precised as the final properties of 15 minutes are settled as the properties of 15 minutes ar | | | | | | | | | | |
| The strategy purpose production of the Workshop on Salabert Coolings (C. Julian). All production colonies (E. Julian) and the strategy of the Workshop on Salabert Coolings (C. Julian). All production of the Workshop on Salabert Coolings (C. Julian). The Workshop on Salabert Coolings (C. Julian) in Microbian (C. Julian). The Workshop on Salabert Coolings (C. Julian) in Microbian (C. Julian) in Mi | | | | | | | | | | |
| Six Of proceing success values would let find evidencely used \$1.000 to record the evidence of | Targets equal 95% confidence limits around a statistically significant | Statistically significant relationship between breeding success of kittiwakes and | UK Seabird Monitoring Programme currently reports on UK species specific | OSPAR tried to develop an EcoQO on kittiwake breeding success but this used an | Yes | Yes | Yes | No | No | No |
| The stationaries with mistarchine and stationaries in the state of state of stationaries and controls. See Floridations and all 2004 Annual Ecol. 41: 129-1139, 2007 Mark Cell Plany See 732-200-7131 and cell Cell Plany See 732-200-713 | relationship between breeding success of kittiwakes and local sea-surface | local sea-surface temperature (in winter 2 years previous) at individual colonies; | trends in abundance of breeding seabirds at http://jncc.defra.gov.uk/page- | absolute value target of 0.6 chicks per pair, which did not take into account the | Yes | Yes | Yes | No | No | No |
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| | misroning-between brending success of tell-subsite and local loss outface important STO from brending success of tell-subsite and local loss of tell-subsite subsite for the subsite of tell-subsite subsite subsite for the subsite subsite subsite subsite for the subsite s | local is as unface temperature (in winter 2 years previous) at infinidual colonies, monget to the resident inheritance warrants another recountered incomplete the resident observations are under recountered and the resident of the resident of the resident and the resident of the reside | forceds in abundance of breeding subbrids at http://pcc.defra.gov.uk/page- 1001. Need to inventigate applicability to other species (e.g. Guillemot, Fuhrar B. 1948) 61. Breeding publish, same indicators as necommended for 0599.8 doubt 65000 on subbrid population tends as an index of subbrid community hards. 165000 on subbrid population tends as an index of subbrid community hards. 165000 on subbrid subbridge of the subbridge o | aboulder when target of 0.6 chicks per pay, which did not take into account the effect of climits continon in Stittude breeding success. For the work heeded to determine assessment areas and determine appropriate pay fower. For the work heeded to determine assessment areas and determine appropriate pay fower. Target based on an OSPAR dark EcoQO on seabord population trends as an index of earlier community health. EcoQO is currently under development. Target based on an OSPAR dark EcoQO is currently under development and account of earlier community health. EcoQO is currently under development and account of earlier community health. EcoQO is currently under development. Target based on an OSPAR dark EcoQO is currently under development. Target based on an OSPAR dark EcoQO is currently under development. Target based on an OSPAR dark EcoQO is currently under development. Target based on an OSPAR dark EcoQO is currently under development. The Research of the Community health. EcoQO is currently under development. The Research of the Community health. EcoQO is currently under development. The Research of the Community health. EcoQO is currently under development. The Research of the Community health. EcoQO is currently under development. The Research of the Community health. EcoQO is currently under development. The Research of the Community health. EcoQO is currently under development. The Research of the Research of the Community health. EcoQO is currently under development. The Research of the | 70% | Tros. | 7965 7965 | No. No. No. | No No No | No. |

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| The distributional range of harbour seal haulouts has been regularly monitored for core areas since 1988. | The distributional range of harbour seal haulouts has been regularly monitored for core areas since 1988. | This is a very basic indicator assessing change in the boundaries of range. It would also be useful to faise with local groups in the outh-west of lingland and Wales to assess whether an increase in range has occurred (e.g. Isles of Scilly, Anglesey, Poole and Chichester Harbours). | Target based on the range element of FCS reporting requirements under the Habitats Directive | Yes | Yes | Yes | No | No | No |
| | | | | | | | | | |
| The core distributional range of breeding grey soals has been regularly monitored since c1560s. Other areas are patchy. | The core distributional range of breeding grey seals has been regularly monitored since c1960s. Other areas are patchy. | This is a very basic indicator assessing change in the boundaries of range. | Target based on the range element of PCS reporting requirements under the habitats Directive | Yes | Yes | Yes | No | No . | No |
| The JCP analysis is underway to provide trends in cetacean distribution and | JCP data | A time series could be constructed from the mid 1980s: statistical tools for | Target based on the range element of FCS reporting requirements under the | Ves | Yes | Yes | No | No | No |
| abundance over time, including power to detect trends. Preliminary results based on the Irish Sea indicate a high level of power to detect small changes (equivalent to 156 decline per annum) for harbour porpoise, short-beaked common dolphin and bottlenose dolphin. Project completion expected March | | describing and assessing significance of range change need to be agreed | Habitats Directive. There is an obligation for this through ASCOBANS. ICP data are dispersed among many groups. This carries some risks of variability in data availability, Ideally only effort-related data should be used. Geographical biases may also exist. | | | | | | |
| 2012. The ICP analysis is underway to provide trends in catacean distribution and abundance over time, including power to detect trends. Preliminary results based on the Irish Sas indicate a high level of power to detect small changes (equivalent to 15 id decline per annum) for harbour perspoise, short beaked common diplain and bottlenose displain. Project completion expected March 2012. | ICP data | A time series could be constructed from the mid 1980s, statistical tools for describing and assessing significance of range change need to be agreed | Target based on the range element of FCS reporting requirements under the stabilates Directive. There is an obligation for this through ASCBBANS, LPD data are dispersed among many groups. This carries some risks of variability in data variability, isolarly only effort-related data should be used. Geographical biases may also exist. | Yes | Yes | Yes | No | No | No |
| The JCP analysis is underway to provide trends in cetacean distribution and abundance over time, including power to detect trends. Project completion expected March 2012. | JCP data | A time series could be constructed from the mid 1980s; statistical tools for describing and assessing significance of range change need to be agreed | Target based on the range element of FCS reporting requirements under the Habitats Directive. There is an obligation for this through ASCOBANS. ICP data are dispersed among many groups. This carries some risks of variability in data availability. Ideally only effort-related data should be used. Geographical biases may also exist. | Yes | Yes | Yes | No | No | No |
| The LFD analysis is underway to provide trends in cetacran distribution and abundance over time, including power to detect trends. Periminary results based on the Irish Sai indicate a high level of power to detect small changes (equivalent to 18 decline per annum) for harbour propries, bort-beaked common dolphin and bottlenose dolphin. Project completion expected March 2012. | ICP data | A time series could be constructed from the mid 1980s, statistical tools for describing and assessing significance of range change need to be agreed | Target based on the range element of FCS reporting requirements under the Habitats Directive. There is an obligation for this through ASCOBANS. ICP data are dispersed among many groups. This Carries some risks of variability in data availability. Ideally only effort-related data should be used. Geographical biases may also exist. | Yes | Yes | Yes | No | No | No |
| The ICP analysis is underway to provide trends in cetacean distribution and abundance over time, including power to detect trends. Project completion expected March 2012. | JCP data | A time series could be constructed from the mid 1980s; statistical tools for describing and assessing significance of range change need to be agreed | Target based on the range element of FCS reporting requirements under the substats Directive. There is an obligation for this through ASCOBASI. CIP data are dispersed among many groups. This carries some risks of variability in data availability, ideally only effort-related data should be used. Geographical biases may also exist. | Yes | Yes | Yes | No | No | No |
| The ICP analysis is underway to provide trends in cetacoan distribution and abundance over time, including power to detect trends. Project completion expected March 2012. | JCP data | A time series could be constructed from the mid 1980s; statistical tools for describing and assessing significance of range change need to be agreed | Target based on the range element of FCS reporting requirements under the riabitats Directive. There is an obligation for this through ASCDBANS. LTP data are dispersed among many groups. This carries some risks of variability in data availability, Ideally only effort-related data should be used. Geographical biases may also exist. | Yes | Yes | Yes | No | No | No |
| analysis has been undertaken to provide an estimation of natural variability. | The distribution within core areas has been regularly monitored since 1988. No analysis has been undertaken to provide an estimation of natural variability. | There is a long time series of data for this, but no analysis has been undertalare; statistical tools for describing and assessing significance of range change need to be agreed. | Target based on the range element of FCS reporting requirements under the stabilates Directive. The suggested target is a pragmatic approach that may need revision in the future. Seal monitoring information should be examined to understand natural variability. | Yes | Yes | Yes | No | No | No |
| The breeding distribution within core areas has been regularly monitored since the 60s. No analysis has been undertaken to provide an estimation of natural variability. | The breeding distribution within core areas has been regularly monitored since the 60s. No analysis has been undertaken to provide an estimation of natural variability. | There is a long time series of data for this, but no analysis has been undertaken; statistical tools for describing and assessing significance of range change need to be agreed. | Target based on the range element of FCS reporting requirements under the Habitats (Directive. The suggested target is a pragmatic approach that may need revision in the three. Soal monitoring information should be examined to understand natural variability. | Yes | Yes | Yes | No | No | No |
| Robust mark-recapture estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Some of necessary monitoring undertaken as part of SAC monitoring. Statistically significant means a 1/20 chance that the change caused by random fluctuation. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There is also commitment for this work through ASCOBANS. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable complexity in organisation. Statistically significant means a 1/20 chance that the change caused by random fluctuation. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There are also commitments for this work through ASCOBANS and OSPAR. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable completity in organisation. Statistically significant means a 1/20 chance that the change caused by random fluctuation. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There is also a commitment for this work through ASCOBANS. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a W European survey. Considerable complexity in organization. Statistically significant means a 1/20 chance that the change caused by random fluctuation. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There is also a commitment for this work through ASCOBANS. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable complexity in organisation. Statistically significant means a 1/20 chance that the change caused by random fluctuation. | Target based on the population element of PCS reporting requirements under the Habitats Directive. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable complexity in organisation. Statistically significant means a 1/20 chance that the change caused by random fluctuation. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There is also a commitment for this work through ASCOBANS. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a WEuropean survey. Considerable complexity in organisation. Statistically significant means a 1/20 chance that the change caused by random fluctuation. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There is also a commitment for this work through ASCOBANS. | Yes | Yes | Yes | No | No | No |
| Since 1988, abundance at core sites has been assessed regularly. | Since 1988, abundance at core sites has been assessed regularly. | | Baseline set as mean (and deviation) over, for example, 20 years. This could be improved after detailed examination of the data. Target based on the population element of FCS reporting requirements under the Habitats Directive and the OSPAR EcoQO. | Yes | Yes | Yes | No | No | No |
| Since 1960s, abundance at core sites has been assessed regularly. | Since 1960s, abundance at core sites has been assessed regularly. | | Baseline set as mean (and deviation) over, for example, 20 years. This could be improved after detailed examination of the data. Target based on the population element of FCS reporting requirements under the Habitats Directive and the OSPAR ECOGO. | Yes | Yes | Yes | No | No | No |
| Pup production has been assessed at two sites: in the Wash (every 5 years) and Moray Firth (annually). Further sites (possibly SACs) will need to be added to this. | Pup production has been assessed at two sites: in the Wash (every 5 years) and Moray Firth (annually). Further sites (possibly SACs) will need to be added to | pup production. Such an analysis will need to encompass other sites in Europe. | Target based on the population element of FCS reporting requirements under the Habitats Directive. | Yes | Yes | Yes | No | No | No |
| | UND. | Once completed, targets can be set. Evidence strong in existing sites only. | | | | | | | |

| Pup production has regularly been assessed at a large number of sites since 1960s, although more accurate aerial techniques were introduced in 1984. | Pup production has regularly been assessed at a large number of sites since 1960s, although more accurate aerial techniques were introduced in 1984. | Grey seal abundance is modelled from pup production information with additional data input. Model refitted every year. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There is also an OSPAR EcoQO. | Yes | Yes | Yes | No | No | No |
|--|--|---|---|-----|----------|-----|----|----|----|
| Photo-id study of calves with known adult female dolphins | Photo-id study of calves with known adult female dolphins | Data quality may need further assurance | Target based on the population element of FCS reporting requirements under | Yes | Yes | Yes | No | No | No |
| | | | the Habitats Directive. There is also an obligation for this work through ASCOBANS. | | | | | | |
| Initial work was undertaken on genetic structure of harbour seal populations in UK and Europe in the 90s. This has recently been repeated with more samples | UK and Europe in the 90s. This has recently been repeated with more samples | This is an indicator that focuses on abundance of genetic subpopulations and not changes in genetic diversity over time. Further development required | Target based on the population element of FCS reporting requirements under the Habitats Directive. | Yes | Yes | Yes | No | No | No |
| and greater microcatellite loci coverage. Once these results are available, we will have a better idea of possible targets | and greater microsatelite loci coverage. Once these results are available, we will have a better idea of possible targets | | | | | | | | |
| Pup production has been assessed at two sites: in the Wash (every 5 years) and Moray Firth (annually). Further sites (possibly SACs) will need to be added to | Pup production has been assessed at two sites: in the Wash (every 5 years) and Moray Firth (annually). Further sites (possibly SACs) will need to be added to | Existing data will need to be analysed to provide an indication of variability in | Target based on the population element of FCS reporting requirements under the Habitats Directive. | Yes | Yes | Yes | No | No | No |
| Moray Firth (annually). Further sites (possibly SALS) will need to be added to this. | Moray Firth Jannually). Further sites (possibly SALS) will need to be added to this. | pup production. Such an analysis will need to encompass other sites in Europe. Once completed, targets can be set. Evidence strong in existing sites only. | the Habitats Directive. | | | | | | |
| Pag production has regularly lenn assessed at a large number of sites since 1966, although more accurate aerull sechniques were introduced in 1994. | Pag production has regularly been assessed at a large number of other since 1966, although more accurate aerial schniques were introduced in 1984. | Grey seal abundance is modeled if one pup production information with additional data input. Model refitted every year. | Target based on the population element of PCS reporting requirements under the Habitats Directive. There is also an OSPAR ExcQD. | Yes | Yes | Yes | No | No | No |
| Photo-id study of calves with known adult female dolphins | Photo-id study of calves with known adult female dolphins | | Target based on the population element of FCS reporting requirements under the Habitats Directive. There is also an obligation for this work through ASCDBANS. | Yes | Yes | Yes | No | No | No |
| | | | | | | | | | |
| Existing data will need to be analysed to provide an indication of feasibility of such an assessment. Once completed targets can be set. | Existing data will need to be analysed to provide an indication of feasibility of such an assessment. Once completed targets can be set. | Existing data will need to be analysed to provide an indication of feasibility of such an assessment. Once completed targets can be set. | | Yes | Yes | Yes | No | No | No |
| Abundance at core sites is regularly assessed since 1988. | Abundance at core sites is regularly assessed since 1988. | | Baseline set as mean (and deviation) over, for example, 20 years. This could be improved after detailed examination of the data. Target based on the oppulation element of FCS reporting requirements under the Habitats Directive and the OSPAR ECOQO. | Yes | Yes | Yes | No | No | No |
| Robust mark-recapture estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Some monitoring undertaken as part of SAC monitoring | Target based on the population element of FCS reporting requirements under the Habitats Directive. There is also an obligation for this work through ASCOBANS. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS 8 Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable complexity in organisation. | Target based on the population element of FCS reporting requirements under the Habbats Directive. There are also commitments for this work through ASCOBANS and CSPAR. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European confinential shelf waters. | Needs to be a NW European survey. Considerable complexity in organisation. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There are also commitments for this work through ASCDBANS. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable complexity in organization. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There are also commitments for this work through ASCIBANS. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable complexity in organisation. | Target based on the population element of PCS reporting requirements under the Habitats Directive. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recapture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable complexity in organisation. | Target based on the population element of FCS reporting requirements under the Hallats Directive. There are also commitments for this work through ASCIBANS. | Yes | Yes | Yes | No | No | No |
| Robust line-transect estimates | Robust mark-recipture estimates, based SCANS II Survey, which covered all of European continental shelf waters. | Needs to be a NW European survey. Considerable complexity in organisation. | Target based on the population element of FCS reporting requirements under the Habitats Directive. There are also commitments for this work through ASCOBANS. | Yes | Yes | Yes | No | No | No |
| Robust bycatch observer estimates | Robust bycatch observer estimates | The UK Byzatch monitoring scheme was formally initiated in 2005, although byzatch data has been collected since the late 90s. | Although an aspiration and commitment of ASCOBANS, this indicator is also relevant to the incidental killing and capture element of the Habitats Directive and there is an OSAM EcoOD for the North Sea. Threshold also used by IKES is defining excessive level of bycatch. | Yes | Yes | Yes | No | No | No |
| Robust bycatch estimates: Analysis needed to determine if 1.7% threshold suitable as a sustainability descriptor for common dolphins. | Robust bycatch observer estimates | The UK Byzatch monitoring scheme was formally initiated in 2005, although byzatch data has been collected since the late 90s. | Although an aspiration and commitment of ASCOBANS, this indicator is also relevant to the incidental killing and capture element of the Habitats Directive. | Yes | Yes | Yes | No | No | No |
| Robust bycatch observer estimates | Robust bycatch observer estimates | The UK Bycatch monitoring scheme was formally initiated in 2005, although bycatch data has been collected since the late 90s. | 2% is used rather than 1.7% because seals have a higher reproductive output than cetaceans. CLA is proposed as the mechanism for determining bycatch levels in line with the cetacean work. | Yes | Yes | Yes | No | No | No |
| Robust bycatch observer estimates | Robust bycatch observer estimates | The LIK Bycatch monitoring scheme was formally initiated in 2005, although bycatch data has been collected since the late 90s. | 2% is used rather than 1.7% because seals have a higher reproductive output than cetaceans. CLA is proposed as the mechanism for determining bycatch levels in line with the cetacean work. | Yes | Yes | Yes | No | No | No |
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| Japon et al (2005 - Environmental Toxicology & Chemistry, 24: 238-248) indicates that total PCB levels greater than 17 mg/kg lipid begin to impact on the immune system of porpoises. | | | Yes | Yes | Yes | No | No | No |
|--|---|---|-----|-----|-----|----|--|----|
| Ross et al. (1996 - Toxiccology 112: 157-169) indicates that PCB levels exceeding 20mg/kg lipid begin to impact on the immune system of harbour seals. | | | Yes | Yes | Yes | No | No | No |
| fersearch acegoing, which will hopefully give an indication of the level of exposure to algal toxins that has an afverse health effect in seals. | | | Yes | Yes | Yes | No | No | No |
| North Sec case shooly (MeS.S). Data variables for other areas to did similar analysis (see CRESON) (Mescent scientific and extra detailing development of similar indications across different manner regions. | Further work need to discribe turned in metrics in different manner regions and analysis to determine co-variance relationships with other indicators. | will need further discussion and debate. | Yes | Yes | Yes | No | No | No |
| Month Sea case study (Mo 51). Data available for other areas to do similar analysis; (see GASDA'), Misconsi costific Hackardue destilling development of similar indication; across different marine region. | | Basellines will have to be spocies/community dependent. Value of the decline will need further discussion and debate. | Yes | Yes | Yes | No | No | No |
| North Sea case study (Mr S.). Data available for other areas to do similar analyses (see ASSEA) (97). Recent scientific hearthe detailing development of similar indicators across different marine regions. | Further work need to describe trends in metrics in different mainer agons and analysis to determine co-variance relationships with other indicators. | | Yes | Yes | Yes | No | No | No |
| North Sea case study (Mr S.), Data available for other areas to do similar analyses (see (SEZIOV)). Recent scientific learner destilling development of similar indicators across different manche regions. | Further work need to describe trends in metrics in different manner agons and analysis to determine co-variance relationships with other indicators. | | Yes | Yes | Yes | No | No | No |
| North Sea case study (Mr S.), Data variable for other areas to do similar analysis; (see SEGING**), Secret scientific Resizure destilling development of similar indicators across different marine regions. | Further work need to describe trends in metrics in different marine regions and analysis to determine co-variance relationships with other indicators. | | ves | Ves | Yes | No | No The state of th | No |

| North Sea case study (MS-S). Data available for other areas to do similar | | | | | | | | | | |
|--|--|--|--|-------------------|-------------------|------------|---|----------|----------|---|
| | | Further work need to describe trends in metrics in different marine regions and | | Yes | Yes | Yes | No | No | No | |
| analyses (see QSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. | | analysis to determine co-variance relationships with other indicators. | | | | | | | | |
| or similar indicators across different marine regions. | | | | | | | | | | |
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| North Sea case study (MS-S). Data available for other areas to do similar | | Further work need to describe trends in metrics in different marine regions and | | Yes | Yes | Yes | No | No | No | 1 |
| analyses (see QSR2010, CPIII). Recent scientific literature detailing development | | analysis to determine co-variance relationships with other indicators. | | | | | 1 | | | |
| of similar indicators across different marine regions. | | | | | | | | | | |
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| | | Considerable new research programme necessary to establish genetic structure | | † | 1 | | No | | | 1 |
| | | in many new non-target species. | | | | | | | | |
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| North Sea case study (MS-S). Data available for other areas to do similar | | Further work need to describe trends in metrics in different marine regions and | | Yes | Yes | Yes | No | No | No | |
| analyses (see QSR2010, CPIII). Recent scientific literature detailing development | | analysis to determine co-variance relationships with other indicators. | | | | | | | | |
| of similar indicators across different marine regions. | | | | | | | | | | |
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| North Sea care study (MS.S). Data available for other areas to do similar | | Further work need to describe trends in metrics in different marine regions and | | Vor | Vor | Vor | No | No | | |
| North Sea case study (MS-S). Data available for other areas to do similar | | Further work need to describe trends in metrics in different marine regions and | | Yes | Yes | Yes | No | No | No | |
| analyses (see QSR2010, CPII). Recent scientific literature detailing development | | Further work need to describe trends in metrics in different marine regions and analysis to determine co-variance relationships with other indicators. | | Yes | Yes | Yes | No | No | No | |
| North Sea case study (MS-S). Data available for other areas to do similar analyses (see QSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. | | Further work need to describe trends in metrics in different marine regions and analysis to determine co-variance relationships with other indicators. | | Yes | Yes | Yes | No | No | No | |
| analyses (see QSR2010, CPII). Recent scientific literature detailing development | | Further work need to describe trends in metrics in different marine regions and analysis to determine co-variance relationships with other indicators. | | Yes | Yes | Yes | No | No | No | |
| analyses (see QSR2010, CPIII). Recent scientific literature detailing development of similar indicators across different marine regions. | | analysis to determine co-variance relationships with other indicators. | | Yes | Yes | Yes | No | No | No | |
| analyses (see QSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) | | analysis to determine co-variance relationships with other indicators. The LFI is specified for each region to which it is applied so that the metric is | Target based on OSPAR EcoQO for "Fish Communities" in North Sea pilot project | Yes | Yes | Yes | No No | No No | No No | |
| analyses (see QSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. | | analysis to determine co-variance relationships with other indicators. The LF is specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of blomass = | Target based on OSPAR EcoQS for "Fish Communities" in North Sea pilot project and subsequently rolled out for other marine regions. | Yes Yes | Yes | Yes | No No | No No | No No | |
| analyses (see QSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) | | analysis to determine co-variance relationships with other indicators. The LFI is specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of biomass >40cm in the North Sea and proportion of biomass >50cm in the Celtic Sea). | Target based on OSPAR EcoQO for "Fish Communities" in North Sea plot project and subsequently rolled out for other marine regions. | Yes Yes | Yes | Yes | No No | No No | No No | |
| analyses (see QSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) | | analysis to determine co-variance relationships with other indicators. The ITI is specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of biomass -40cm in the North Sea and proportion of biomass -50cm in the Cettls Seal.) The ITI as an indicator of 42, should be expanded to tale account of pelagic | Target based on ODPAR LCOOD for "Fish Communities" in North See pilot project and subsequently rolled out for other marine regions. | Yes Yes | Yes | Yes | No No | No No | No No | |
| analyses (see GSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) | | analysis to determine co-variance relationships with other indicators. The IT is specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of biomass -36cm in The IT is an indicator of 4.2; should be expanded to take a country of pelagic for the other periods of the other pe | Target based on OSPAR ECOCO for "Fish Communities" in North See pilot project and subsequently noted out for other marine regions. | Yes Yes | Yes | Yes | No No | No No | No No | |
| analyses (see GSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) | | analysis to determine co-variance relationships with other indicators. The IT1s specified for each region to which it is applied so that the metric is adopted to most suit the resident community (proportion of biomass sident). He forms a self-orm in the North Sea and proportion of biomass sident in the Cells's Sail. The IT1 as an indicator of 4.1, flooded be expanded to take account of pelagic more continued to the cells's Sail. | Target based on DDAN EcoOD for "Trib Communities" in North Sea pilot project and subsequently rolled out for other marine regions. | Yes | Yes | Yes | No No | No No | No No | |
| analyses (see GSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) | | analysis to determine co-variance relationships with other indicators. The ET is specified for each region to which it is applied so that the metric is adopted to medium the modern community jumportion of biomiss selection is adopted to medium selection of biomissis selection. The ET is an indicator of a 2, should be expended to take accorder of pedigic files as well as for demonstal fails, for which it was developed. This may need to be a control of the control of | Target based on OSPAR EcoOD for "Fish Communities" in North Sea pilot project and subsequently noted out for other marine regions. | Yes | Yes | Yes | No No | No No | No No | |
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| analyses (see GSR2010, CPII). Recent scientific literature detailing development of similar indicators across different marine regions. 1) Greenstreet, S.P.R. et al. (2011) ICES Journal of Marine Science, 68: 1-11. 2) | | analysis to determine co-variance relationships with other indicators. The IFI is operfined for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of blomass shifting in Neotht Sea and proportion of blomass shifting in the Celts's sail or in the Celts's sail or some of the Sea and the Sea a | Target based on OSPAR EcoOD for "Fish Communities" in North See pilot project and subsequently noted out for other marine regions. | Yes | Yes | Yes | No No | No No | No No | |
| analyses (see CGR000), CMI), Record scientific literature detailing development of orinizar indication sous different marine strong control of Marine Science, 11 Greenitrees, 5 P. R. et al. (2011) ICIS Ionaval of Marine Science, 68: 1-11. 2) Skephard, 5. et al. (In press) ICIS Ionaval of Marine Science. | | analysis to determine co-variance relationships with other indicators. The IT1s specified for each region to which it is applied so that the metric is adopted to most suit the resident community (proportion of biomass shorts). The it is an indicator of a 1,2 flood be required to the accuracy of peligible. The IT1 is an indicator of 4.2, flood be required to the accuracy of peligible common of the common of the common of the indicator of a 1,2 flood be required to the accuracy of peligible common residenting of the indicator, a change in the "large flood" therebook languith for example, perhaps to a length that separates pictoreous find from non-speciators. So the indicator, each superior accuracy in the indicator is all work in each to be done to avera appropriate targets. | and subsequently rolled out for other marine regions. | Yes | Yes | Yes | No No | No No | No No | |
| analyses (see CREDIOI), CPU). Record scientific filterature detailing development of omforter indicates soons different name report of the control of the co | | analysis to determine co-variance relationships with other indicators. The UTIs specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of biomass. Afform a contract of the proportion of biomass. Afform in the ITI is an indicator of 2.5, about the sequented to take account of PTIS may need a contract of the other in the ITI is an indicator of the other in the ITI is an indicator. A strong in the "large flot" threshood ineight packages. So the indicator activate join the "large flot" threshood ineight packages. So the indicator needs some development work and work needs to be done to assess appropriate targets. More recent demand Itin det and consumption work has been undertaken. | Target based on OSPAR EcoOD for "Fish Communities" in North Sea pilot project and subsequently rolled out for other marine regions. [Early ERSEM model for the North Sea provides a basis for setting targets. | Yes Yes Yes | Yes Yes Yes | Yes | No No | No No | No No No | |
| analyses (see CGROSIO, CPVII). Record scientific literature detailing development of infinize indicators across different marker region: 13 Generatures, S. et al. (2011) ICES bournal of Marine Science, 6B 1:11. 2) Shephard, S. et al. (in press) ICES Journal of Marine Science. North Sea case shelp (MS-5), Outa available for other areas to do similar analyses (see CSROSIO, CPVII). Record scientific literature detailing development | | analysis to determine co-variance relationships with other indicators. The IFI is specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of blomass s-Morn in the North Sea and proportion of blomass s-Morn in the North Sea and proportion of blomass s-Morn in the Celts Sea). The IFI is an indicator of 4.2, should be expanded to take account of pelagic has well at 10 demand high, for which it was deed and the search of the North Sea and IFI is a well at 10 demand high, for which it was deed and the search of the Sea and the Sea a | and subsequently rolled out for other marine regions. | Yes Yes Yes | Yes Yes Yes | Yes | No No | No No | No No No | |
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| analyses (see CSB300), CPU), Record scientific iteraturus detailing development of oilinatar indications across different marker regions. 1) Greenotimers, SP, RF et al. (2011) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in press) (CSI Solomat of Marrine Science, 6B E 1-11. 2) Shephard, S. et al. (in pres | | analysis to determine co-variance relationships with other indicators. The IFI is specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of blomass s-Morn in the North Sea and proportion of blomass s-Morn in the North Sea and proportion of blomass s-Morn in the Celts Sea). The IFI is an indicator of 4.2, should be expanded to take account of pelagic has well at 10 demand high, for which it was deed and the search of the North Sea and IFI is a well at 10 demand high, for which it was deed and the search of the Sea and the Sea a | and subsequently rolled out for other marine regions. | Yes | Yes Yes | Yes | No No | No No | No No No | |
| analyses (see CSB300), CPU), Record scientific Rendum detailing development of ofinials indicates cost different name reads. 31 Greenotinest, S.P.R. et al. (2011) 1/25 Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICSS Journal of Marine Science, 68: 1-11. 2) Shephard, S. | | analysis to determine co-variance relationships with other indicators. The IT is specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of biomass shown in North Sea and proportion of biomass shown in the Critis Sea). The IT is an indicator of 4.2, flood be requarted to take account of pelagic more account of the Critis Sea) of the IT is an indicator of 4.2, flood be requarted to take account of pelagic more modelring of the indicator, a change in the "large facility flooding for example, perhaps to a length that separates pixture own fair from non-indicators. A change in indicator, a change in the "large facility flooding for example, perhaps to a length that separates pixture own fair from non-indicators. So the finite form each separate work and work needs to be didner to assess appropriate largest. More recent demersal fish det and consumption work has been understaken, other traces the contract of | and subsequently rolled out for other marine regions. | Yes Yes | Yes Yes | Yes Yes | No. | No No | No No No | |
| snayes (see CREDIO), CM). Record scientific flerentum detailing development of onlinal redictions soon different name redictions of males redictions of miller makes (see 1.11.2). The rediction of the street of th | The baseline for a particular region or ote can be set with existing Middotcal | analysis to determine co-variance relationships with other indicators. The UT is specified for each region to which it is applied so that the metric is adapted to most suit the recident community (proportion of biomass. >40m; in the proportion of biomass. >40m; in the UT is an indicator of 2.0, should be required to take accord of Price that the proportion of the price of the developed find as well as for demensal fint, for which it was developed. This may need for example, perhaps to a length with at sparsters plack-orders ofth from now the control of the price of | and subsequently rolled out for other marine regions. Early DRSEM model for the North Sea provides a basis for setting targets. | Yes Yes | Yes Yes | Yes Yes | No. No. No. No. No. Our boundaries are based on | No No | No No No | |
| snayes (see CBSDDD), CM). Second scentific filterature detailing development of omfart indicates you defined reading second second restrict making second se | data where available; however the continuing influence of climate variability | analysis to determine co-variance relationships with other indicators. The LF1 is specified for each region to which it is applied so that the metric is adapted to medium the modern community jumportine of branchs. Add mit a subject to medium the modern community jumportine of branchs add mit of the LF1 is an indicator of 4.0, should be equaled to take account of the plagic files as well as for demensal finish, now which it was developed. This may need the careful properties a series of the series of series of the series of series of the ser | and subsequently routed out for other marine regions. Early ERSSM model for the North Sea provides a basis for setting targets. Our target is a conceptual target that there should be no change beyond that | Yes | Yes Yes | Yes | ecohydrodynamic regions, so | No No | No No No | |
| savies (see CSB300), CM), Record scientific iterature detailing development of oilstate indicates sous different name reads. 1) Greenstreet, S.P.R. et al. (2011) ICIS lownal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) ICIS Journal of Marine Science, 68: 1-11. 2) Shephard, S. et al. (in press) Shephard, S. et al. (in press) Shephard, Shephard, Shephard, | data where available; however the continuing influence of climate variability must be considered and continually reviewed in the context of baseline setting. | analysis to determine co-variance relationships with other indicators. The LFI is specified for each region to which it is applied so that the metric is adapted to most suit the resident community (proportion of biomass 3-40m) in the North Sea and proportion of biomass 3-40m in the North Sea and proportion of biomass 3-40m in the North Sea and proportion of biomass 3-40m in the North Sea and Se | and subsequently rolled out for other marine regions. Early IRSSM model for the North Sea provides a basis for setting targets. Our target is a conceptual target that there should be no change beyond fills driven by climate/natural variability. We are trying to applies characteristics of | Yes Yes | Yes Yes | Yes Yes | ecohydrodynamic regions, so may cut across CP2/regional | No No | No No No | |
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| The use of plankton lifeforms (or functional groups) as indicators is well published in the scientific literature. The approach outlined here will | The baseline for a particular region or site can be set with existing historical data where available; however the continuing influence of climate variability | Often indicator species are used to assess changes in plankton at the local level. While this is appropriate at the scale of individual sites, at regional scale it may | Our target is a conceptual target that there should be no change beyond that | | | | Our boundaries are based on ecohydrodynamic regions, so | | | |
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| compliment Water Framework Directive coastal phytoplankton monitoring | must be considered and continually reviewed in the context of baseline setting. | be necessary to work at a higher (more generic) level which is in line with the | driven by climate/natural variability. We are trying to capture characteristics of | | | | may cut across CP2/regional | | | |
| currently underway in UK waters. Due to the strong evidence base underpinning both the lifeform approach to indicators (Tett et al 2008. | This will mean the baseline may change over time, and our targets allow for this (see below). The status of the plankton will then need to be assessed to | assessment of GES at the regional seas scale. This approach allows the flexibility of application to all time-series and datasets. | plankton comm, and determine if it is changing in response to pressure, climate or natural variability. If changing, is the difference between donuts (Phyto Comm | | | | sea boundaries which may be a problem when aggregating | | | |
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| separating climate- and anthropogenically-driven change in marine ecosystems ((see McQuatters-Gollop et al. 2007 and references therein, McQuatters-Gollop | approach is somewhat aligned with the method 'baseline set in the past' = however we are not seeking to set baselines that reflect pristine conditions; the | | this stage is what degree of shift should trigger management action. If trajectory is correlated with pressure, that is a reasonable indication that the pressure is | | | | assessments. Ecohydrodynamic regions may | | | |
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| The use of plankton lifeforms (or functional groups) as indicators is well published in the scientific literature. The approach outlined here will | The baseline for a particular region or site can be set with existing historical data where available; however the continuing influence of climate variability | Often indicator species are used to assess changes in plankton at the local level. While this is appropriate at the scale of individual sites, at regional scale it may | Our target is a conceptual target that there should be no change beyond that | | | | Our boundaries are based on ecohydrodynamic regions, so | | | |
| compliment Water Framework Directive coastal phytoplankton monitoring | must be considered and continually reviewed in the context of baseline setting. | he neressary to work at a higher (more generic) level which is in line with the | driven by climate/natural variability. We are trying to capture characteristics of | | | | may cut across CP2/regional | | | |
| currently underway in UK waters. Due to the strong evidence base underpinning both the lifeform approach to indicators (Tett et al 2008. | This will mean the baseline may change over time, and our targets allow for this (see below). The status of the plankton will then need to be assessed to | assessment of GES at the regional seas scale. This approach allows the flexibility of application to all time-series and datasets. | plankton comm, and determine if it is changing in response to pressure, climate or natural variability. If changing, is the difference between donuts (Phyto Comm | | | | sea boundaries which may be a problem when aggregating | | | |
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| separating climate- and anthropogenically-driven change in marine ecosystems ((see McQuatters-Gollop et al. 2007 and references therein, McQuatters-Gollop | approach is somewhat aligned with the method 'baseline set in the past' - | | this stage is what degree of shift should trigger management action. If trajectory | | | | assessments. | | | |
| ((see McQuatters-Goliop et al. 2007 and references therein, McQuatters-Goliop et al. 2008). | however we are not seeking to set baselines that reflect pristine conditions; the purpose of the baseline is a point from which to determine if a change has | | is correlated with pressure, that is a reasonable indication that the pressure is influencing the plankton comm. Science can't answer this question so it has to | | | | Ecohydrodynamic regions may not be as important to | | | |
| | purpose of the baseline is a point from which to determine if a change has occurred. Where new monitoring is instated, several years of data will be needed to determine the status of the olankton in that area. | | be policy decision, but we recognize we don't understand the tipping point. Assumption will be next initial assessment in 6 yrs time will need to refer back to | | | | monitoring zooplankton as obvtonlankton, however, we | | | |
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| The use of plankton lifeforms (or functional groups) as indicators is well | The baseline for a particular region or site can be set with existing historical | Often indicator species are used to assess changes in plankton at the local level. | | | | | Our boundaries are based on | | | |
| published in the scientific literature. The approach outlined here will | data where available; however the continuing influence of climate variability | While this is appropriate at the scale of individual sites, at regional scale it may | Our target is a conceptual target that there should be no change beyond that | | | | ecohydrodynamic regions, so | | | |
| compliment Water Framework Directive coastal phytoplankton monitoring currently underway in UK waters. Due to the strong evidence base | must be considered and continually reviewed in the context of baseline setting. This will mean the baseline may change over time, and our targets allow for this | be necessary to work at a higher (more generic) level which is in line with the assessment of GES at the regional seas scale. This approach allows the flexibility | driven by climate/natural variability. We are trying to capture characteristics of plankton comm, and determine if it is changing in response to pressure, climate | | | | may cut across CP2/regional sea boundaries which may be | | | |
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| compliment Water Framework Directive coastal phytoplankton monitoring | must be considered and continually reviewed in the context of baseline setting. | be necessary to work at a higher (more generic) level which is in line with the | driven by climate/natural variability. We are trying to capture characteristics of | | | | may cut across CP2/regional | | | |
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| Target in line with that set under Habitats Directive | Current baselines may need to be used in line with available evidence; | It should be fairly easy to establish ranges of habitats at a range of scales | | ves | wes | ups | wes | | | |
| | however, future research may allow the setting of a baseline based on historical | although this information is likely to be most important at larger scales. | | , | , | , | , | | | |
| | data or reference conditions (as recommended in HBDSEG report). Further evidence base for baselines is presented within HBDSEG report. | Mapping of extent and distribution of habitat using acoustic and remote techniques but heavy reliance on modelling and expert judgement. | | 1 | 1 | | | | | |
| | emocrace once nor outstances is presented within reposes report. | recomplete seasonery renance on modeling and expert judgement. | | | | | | | | |
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| | Current baselines may need to be used in line with available evidence; | This could be made more useful as an indicator if future R&D could be used to | | yes | yes | yes | yes | yes | | |
| | however, future research may allow the setting of a baseline based on historical data or reference conditions (as recommended in HBDSEG report). Further | look at measures of connectivity between habitats. Mapping of extent and | | | | | | | | |
| | data or reference conditions (as recommended in HBDSEG report). Further evidence base for baselines is presented within HBDSEG report. | distribution of habitat using acoustic and remote techniques but heavy reliance on modelling and expert judgement. | | 1 | 1 | | | | | |
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| Target in line with that set under Habitats Directive | Current baselines may need to be used in line with available evidence; | Applicable to Sabellaria spinulosa, Mytilus edulis beds, Sabellaria alveolata | Need to: expand extant monitoring to get better coverage, collate extant | yes | | Yes | Yes | - | es | |
| - | however, future research may allow the setting of a baseline based on historical | reefs, Serpula vermicularis, Lophelia reefs. Cost effective, easily measured, | monitoring. For some biogenic structures historic baselines may be applicable | | | | | ľ | | |
| | data or reference conditions (as recommended in HBDSEG report). Further evidence base for baselines is presented within HBDSEG report. | widely used indicator of community change. May need to scale up metric to assessment units. | and restoration targets appropriate. Various extent measures from different survey methods. Indices from diver and video transects and hydroacoustic | | | | | | | |
| 1 | | | estimates. Mytilus estimates in fished areas. | | | | | | | |
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| Target in line with that set under Habitass Directive | Current baselines may seed to be used in line with available ovidence; however, future resemble may allow the settle of absortion baseline baseline observed float or reference conditions (as recummended in H0000T report). Further wilders to be for fuseditions of presented within H0000T report. Further wilders base for fuseditions is presented within H0000T report. | Cost effective, easily measured, widely used indicator of hisbatta and community change. Many Ageinst a zurrant bussile Monitored via a deed muly Ageinst a zurrant bussile Monitored via a deed muly Ageinst a zurrant bussile Standard deck: bussed approaches have been undertaken within Habis Directive. | Gooded Truther model by farmowing (unlamitted) can derive internification of existing by exposure bytes in statistic close are as been of OTT have 1 internification therefore are measure in a chrowide. Solidand has high countal complexity and to arrive extent measure. Linear extent fields to schedule throughout. | yes | | Yes | Yes | Yes |
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| Target in line with that set under Hebbass Directive | Current baselines may need to be used in line with available overloor; however, future recent may allow the settle of a baseline basel on bitchtcall however, future recent may allow the settle of a baseline basel do in bitchtcall power future of the power future of the power future of the power future predience base for baselines is presented within HEGGG upper. | Pressure based indicator based on overlay on baseline. (Beroine/Neel to advise and develop case). | Pressure based indicator based on overlay on baseline. (General/Rel to advise and develop case). Combination of model and MBES data available at UK level. | yes | | Yes | Yes | Yes |
| Target in line with that set under Habitats Directive | Current baseline: may need to be used in line with available evidence; however, future research may allow the setting of a baseline based on historical data or reference conditions (as recommended in HBDSEG report, Further evidence base for baselines is presented within HBDSEG report. | Baseline data exists within Natural England. And EA. Other sources of aerial sourcey required e.g. Channel coast observatory. Needs cross reference baseline with casework treater and additional course. Collation required. Estant mapping of chalk resource in SE England by NE, Wildlife Trusts (?). Shore Search, Marclim. E Sussex CE. | Baseline data for indicator target will need to be collated. Most areas of intertidal chalk in the Part of SE of Ingland have been mapped providing untable baseline. Onlia hebatta are a nationally zer resource and have been historically lost during intertidal developments. | restricted to certain UK Regional Seas | | | Yes | Yes |
| Target in line with that set under Habitats Directive | Current baselines may need to be used in line with available evidence; however, future research may allow the setting of a baseline based on historical data or reference conditions (as recommended in HEDSEG report, Further evidence base for baselines is presented within HBDSEG report. | Target levels will need carefully consideration within a GES context. | Probably an indicator applicable to Wales and England | | | Yes | Yes | Yes |
| Community data available from several locations. Physical impact models from Cook et al. (in progress or et al (2009), Service & Magorrian (1997) for Modelus Serpula and Ulmaria. | | Applicable to Myritain exhibit bents, hashedisas and presented as method of progradure with might and program of the program of the program of program of the program of the program of the program of community composition will vary across structures of the same species so this indicator / target will need to be derived on a site by site basis. | Possible application of standard unwarrante indices or WFD multimetrics. Targets mead exploration on a habitat by habitat and also site by site basis. | | Yes | | Yes | Yes |
| Data available several UK sites that have been studied. Increase in geographic coverage required. | | Applicable to solvebilary sportures. A phyline dails beld, Sadelbilar a swedship and proposed solvebilary solvebilary solvebilary solvebilary solvebilary solvebilary solvebilary solvebilary solvebilary. Additional phylineial samples need to be taken along with video work to help with accurate identification and to be taken along with video work to help with accurate identification. Aday not be possible for large offshore sites e.g. Lophelia reefs on NW Rockall fasts. Frankels blockversly measures (e.g. fiece et al. 2008) and indicate solvebilary solvebilary solvebilary (e.g. fiece et al. 2008) and indicate solvebilary solvebilary solvebilary solvebilary solvebilary. | Target may need specific definition for each biogenic species. Still need to lascration if this is workable for capitalla. | | Yes | | Yes | Yes |
| | Community change baselnes from vertical rock in Pembroskeshire Marines SAC | Various methods and deployment strategies used for different substitution. Stational standards work originet stratification, Trapile groupe and adultation stational standards work originet strategies continuely adultation communities on substitution strategies to substitution community adultation. This is a pay in sufficient monitoring, especially for deeper shabats. Unification surjected for national standards. Focus on common shabats types. Possibly most on cracification class with the contraction of the state of the production of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of state stat | Various methods and displayment strategies used for different sub-habitaty. Authorial standard ward requires strafficions, register going and arbitrossy communities on validati nody habitats. Cost effective, usil ymasoured. Configeral requires makin rewelfor to understand community indication. This is a pap in sufficient monitoring, especially for deeper habitats. | | | Yes | Yes | |
| Literature by Bell and Barnes on morphology surrogates for species richness in sponges. Cuban and Mediterranean case studies for functional response of sponge communities | | Good potential in this indicator. Simple in situ methods but effort required in set up. Probable WQ Indicator but research needed e.g. calibration. Could be used in deeper water red with drop down vision methods. (Myork done by Regar Coggan and Kerry Howell). Relevant to water quality and physical impact factors | Would need research to test community model response to perturbations. Extended geographic xcope? And deeper water monitoring techniques / methodology. Work needs to be pulled together from Roger Coggan & Kerry Howell. | | | Yes | Yes | |
| Tordence base considered in detail for WFO tool development | | Cost effective, widely used tedicator of community change. Used throughout Gib in WTC contact. Relevant to nutrient, physical impacts. NEED NPUT HERE FROM EA / SEP.A. | | | | Yes | Yes | |
| Estant case studies and some unpublished work shows functional response of some indicator species groups. Widespread systematic data not available yet as basis of monitoring programme. | | Cost effective, easily measured, widely used indicator species groups that respond to impacts of fishing pressure on non-target, slow-growing, sessile and vulnerable reef organisms. Relevant of fisheries impacts, nutrient enrichment etc. | May need new sampling techniques. Coverage required (subtidal). Widespread drop camera work needed. Possible new towed technology application. Various flatheries case studies re epifaunal species. | | | Yes | Yes | |
| CCV and studies from it. France available to model impact gradient. Unimpacted state probably definable but some more research required. | | Cost effective, easily measured, widely used indicator of community change against a specific present. Youver live barbarcies is cover trapped signs under boulder Knowled trapped signs under boulder Knowled executing of Calobridae Species Knowled executing of Calobridae Species Knowled executing of Calobridae Species Knowled Species (Species Species | May need to be a multimetric includer of ratios of corresponding regarders and positive indicates. Feature of the control of | | Yes | Yes | Yes | Yes |
| Indicator can be climate adjusted based on extant studies. | | Target species list might need some additions. For new GES aspirations. Rapid techniques. Single manual store visits so cost effective. Sensitive cinitated adjusted indicator of community change and non native pressures. | Reference condition could be based on historic data. This spects needs consideration. Long list of indiscritor species could be added to it order to support GES. Marine Biodiversity and Climate Change Project: MarClim | | | Yes | Yes | |

| Kajó degih methodology very consistent. Trials in several places in Wales (unpublished), Barvos (ulumitted) shows in be between bloshervity and L hyperborea in U.K. Kain 1979; Dayton 1985 link kelp depth to light attenuation. | | If there was a contemporary case study of the biodiversity associated with lady as led pdgsh indicates would extrapolate to national biodiversity assessment. This could also contribute to indicators under 1.6, 1.3 and 4.3 Case study would need periodic updating, illiodigical integration of water turbidity regime and indicator of the amount of infrailtonal biodiversity, | Needs appropriate geology and aspect. Some regions such as SE England may not be appropriate. May meet of oelevels, puls palundance measure too (?) In use in parts of Wales. Geographic coverage limited in UK. Remote sensing data on turbidity may offer additional information for this indicator. | | | Yes | Yes | | |
|---|--|--|---|-----|-----|-----|--------|----|----|
| footdence base for secultivity scores undergoneed by habitat sensitivity research conducted as pair of the MCZ Project. | Sensitivity sessements based on current physical and biological composition of histories using a confusion of expert independent and primary research. For further information on sensitivity sussement, see fragment | CPT anished pressures based on the relative impact on subset balatists. Thermood of opposition of the One togget 70 priviles inhalts damage were probled highest. Strong link to filhweries impacts. Also applicable to orterin 6.1 and 6.2 in the CPT of th | It is not yet possible to quantify what level of pressure and prevent conscipration is required in the list between pressure and state, on particular pressure, it returns recognition of the list between pressure and state, on particular pressure, its exposure to that pressure will most list likely need to be intended to a level that prevents unacceptable image? Le, or the habitat to achieve 453. This 'unacceptable image?' Le, where an image? Le or the habitat to achieve 453. This 'unacceptable image?' Le, where an image? Le or the habitat to achieve 453. This 'unacceptable image?' Le or the late of | yes | yes | Yes | Yes | | |
| Evidence base for sensitivity scores undergineed by habitat sensitivity research conducted as part of the MCZ Project. | Sensitivity assessments based on current physical and biological composition of haziltats using a combination of eperp injugement and primary research. For further information on sensitivity assessment, see Report | O2 ranked pressures based on the relative impact on seabled habitatis: Removal of specied arranged non-target of and "Physical habitatis amange were ranked highest. Strong link to fisheries impacts. Also applicable to criteria 6.1 and 6.2 | Is not up of possible to quantify what level of pressure will prevent unacceptable in prograf further resourch is required on the like between pressure and state, on a habitat by habitat basis. However, where a habitat shows sensitivity to a particular pressure, it is exposure to half prevents well most likely need to be limited to a level that prevents unacceptable impact (i.e. for the habitat to suchieve GGS). This chanceptable impact (i.e. where an impact censes to be reduced to the prevents of the prevents of the prevents of the prevents of the reduced training the prevents of the prevents of the prevents of the reduced impact (or 'moderate impact (viulnerability). The conceptual distribution is the prevents of the prevents of the prevents of the prevents of the prevents of the prevents of the prevents of the prevents of the reduced the prevents of the prevents of the prevents of the prevents of the reduced the prevents of the prevents of the prevents of the reduced the prevents of the prevents of the prevents of the reduced to the prevents of the reduced the prevents of the prevents of the reduced the prevents of the reduced the reduced the reduced the reduced the reduced the reduced the reduced the reduced the reduced br>reduced the reduced the reduced the reduced reduced the reduced reduced reduced reduced reduced reduced reduced redu | yes | yes | Yes | Yes | | |
| Evidence base for excellulary scores underginned by habitat sensitivity research conducted as part of the MCZ Project. | Sensibility assessments based on current physical and biological composition of blothast using confliction of expert pigentized and primary research, for larger self-emotion on sensibility assessment, see Report | CF2 anniver pressures based on the relative impact on subset habitats. Thomsonial deposits origin if non targetiff a Nyoling-Inhabitat damaged were among the original control in the CF2 or the CF2 | In not set possible to quantify what level of pressure and prevent exacceptable impacts. Infarther research is required on the list between pressure and state, on a proper control of the pressure and state, on a set of the pressure and the pressure will most list level to be activated to a level that prevents unscappable integer? (i.e., where an impact classes to be in activated to a level that pressure and pressure and pressure and the pressure and pressure and the pressure an | yes | yes | Yes | Yes | | |
| Evidence base for sensitivity scores undergeneed by habitat sensitivity research conducted as part of the MCZ Project. | Sensitivity assessments based on current physical and biological composition of haziltats using a commission of epera plagement and primary research. For further information on sensitivity assessment, see Report | O2 ranked pressures based on the relative impact on seabled habitatis: Removal of specied arranged anon-seaply on "Physical habitatis damage" were ranked highest. Strong link to flisheries impacts. Also applicable to criteria 6.1 and 6.2 | In not say opcosible to quantify what level of pressure will prevent unacceptable updants. I farther receives in temperate on their observed pressure and state, on a habitat by habitat basis. However, where a habitat shows exemitively to a particular pressure, it is response to that preserved will most takely need to be instelled to a level that prevents unacceptable impact (i.e., for the habitat to the control of the prevents and the pression of the habitat to the control of the prevents and the pression of the habitat to the prevents of the prevents and the pression of the habitat to the prevents of the prevents and the prevents of the habitat to the prevents of the prevents of the prevents of the habitat to the prevents of the prevents of the prevents of the habitat to the will be prevent the prevent of the prevents of the habitat to the will be prevent or prevents of the prevent of the prevents of the prevent | yes | yes | Yes | Yes | | |
| Exidence base for seminivity scores undergoneed by habitat sensitivity research conducted as part of the MCZ Project. | Scotshilly assessments based on current physical and biological composition of histories using control of expert plaquest and primary research. For further information on sensibility assessment, see Report | O'? artisée pressures based on the relative impact on saleshe blakitat. Removal de procise pagé is non-tegral? no Procise partisée albativat danage wer orderé highest. Strong link to filbereis impacts. Also applicable to orteria is 1 and 8.2. But 1. Strong link to filbereis impacts. Also applicable to orteria is 1 and 8.2. | In not yet possible to quantify what thereof pressure was prevent exacceptable in programs. In-their receives in required on the list between pressure and state, on a section of the pressure was present to the pressure will most list with pressure and pressure and pressure will most list pressure will most list pressure will most list pressure and pressure and pressure will most list pressure and pressure | yes | yes | Yes | Yes | | |
| Customore base for committely scores undergoment by habitat assorbinly research conducted as pair of the MCZ Project. | Southering sessements based on current physical and biological composition of histolization using controls of expert inglement and primary research. For further information on sensibility assessment, see Report | CF2 anniver pressures based on the relative impact on seaked habitats. Removal of species (sept & non-target)** a Physical habitat famings' were crasked highest. Strong link to flaboress impacts. Also applicable to orients & 1 and 8.2 are to the septiment of t | It is not yet possible to quantify what level of pressure will prevent exacceptable update. In their receives in required on the list between pressure and state, on particular pressure, its regionary in the list pressure will most list with pressure and the pressure will most list with pressure and pres | yes | yes | Yes | Yes | | |
| Noticece base for entitlely scores underpineed by habitat sensitivity research conducted as part of the MCZ Project. | Sensibility assessment bisased on current physical and biological composition of habitats using a characteristic production of experi players and primary research. For further information on sensibility assessment, see Report | O? a raised pressures based on the relative implact on scalable shabstars. Thermooral of sports for non-target? a relative implact on scalable shabstars where canaded highest. Strong link to fisheries impacts. Also applicable to crateria 6.1 and 6.2 Thermooral of sports of the scalable sports of | In our yet goods to country evapored to the ord of pre-score was present assocration and state, on a habitat yet publicat from the regiment of the ord present assocration in habitat yet habitat shows a resource of the present of th | yes | yes | Yes | Yes | | |
| Condenses base for assembly scores undergoment by habitat sensitivity research conducted as pair of the MCZ Project. | Sociativity sessements based on current physical and biological composition of histories using a control of expert physical and principly research. For further information on sendibility sessement, see Report | **Removal of spacies (Larget & non-Larget)* and "Physical habitat demagd were caused highest. Strong link to fisheries impacts. Also applicable to orderis 6.1 and 6.2 | maper 1, where recent h is required on the link between pressure and state, on a habitat by habitatis relivation is reviewer, where a habitat dross sensitivity is reviewer, where a habitat dross sensitivity is an apricular pressure. It is reproduct to a long the result is relivative to a long the reviewer sunscipation language. Link for the shabitat to link the result of the relivation o | yes | yes | Yes | Yes | | |
| Target in line with that set under Habitats Directive | Current baselines may need to be used in line with available evidence; however, future research may allow the setting of a baseline based on historical data or reference conditions (as recommended in HBDSEG report). Further evidence base for baselines is presented within HBDSEG report. | Applicable to Sabellaria sprincipics, Myflus edulis beds, Sabellaria alveolata reefs, Serpula venuciularia, Cuphelar reefs. Cost effective, sest) measured, widely used indicator of community change. May need to scale up metric to assessment units. | Need to expand extant monitoring to get better coverage, collate extant monitoring. For one biogetic structures laterial better between several monitoring, for control biogetic structures laterial bracing between several between the production targets appropriate. Various extent measures from different survey methods, indices from diver and video transects and hydroacoustic estimates. Myellus estimates in fished areas. | yes | | Yes | Yes | Ye | s |
| Dot a validable several for sites that have been studied. Increase in geographic coverage required. Taxes to how with that set under Habities Directive. | Accord business succeed to be used in loss with available endence | Applicable to Subelitars spinulosa. Myrithus endito bods, Subelitars alveolata endits, Saerb bods, Funda permissidaris ender cost effective, acuty measured, widely used infection of community change. Additional physical samples need to be claim along with ordine with the light with concess descending and but bed the possible for large officines sites e.g. Lopebas need not NVM Rockall Bank. Parallels bodievity measurus (e.g. Rev et al. 2008) and indicate statistical complexity of habitat / place. | Target may need specific definition for each biggenic species. Still need to succertain if this is workable for Lophelia. | | Yes | | Yes | Ye | is |
| ranger in sine with that set under Habitats Directive | however, future research may allow the setting of a baseline based on historical data or reference conditions (as recommended in HBIDSEG report). Further evidence base for baselines is presented within HBIDSEG report. | although this information is likely to be most important at larger scales. Mapping of extent and distribution of habitat using acoustic and remote techniques but heavy reliance on modelling and expert judgement | | yes | yes | yes | yes no | | |
| | Current baselines may need to be used in line with available evidence; however, future research may allow the setting of a baseline based on historical data or reference conditions; fast recommended in HBDSEG report. Further evidence base for baselines is presented within HBDSEG report. | This could be made more useful as an indicator if infure R&D could be used to look at measures of connectivity between habitats (e.g. Zostera beds). Mapping of extent and distribution of habitat using accousts and emote techniques but heavy reliance on modelling and expert judgement | | yes | yes | yes | yes ye | • | |

| | | | | | | | , | , | |
|---|---|--|--|-----|-----|-----|-----|-----|-----|
| It is not possible, with current levels of evidence, to set scientifically robust it varieties from mains healtstare which ensure the maintenance of exceptation functioning and the continued provision of ecological goods and services. In light of this, the group has prospects attegre options for habitatis which are based on best expert judgement (servined in part from the CP2 assessment process) and the precautionary approach | Current baselines may need to be used in line with available evidence; however, future reacht may allow the setting of a baseline based on historical data or reference conditions (as recommended in HBDSEG report, Further evidence base for baselines is presented within HBDSEG report. | The key for making this a successful indicator is making sure that changes in distribution/seter a etributed to an Interopegoine pressures and not seen as a result of better mapping / improved habitat modeling. It may be appropriate to apply different methodologies when measuring spatial extent of interistial is, subdidial sediment habitats. Mapping of extent and distribution of habitat using acoustic and remote techniques. | | yes | Yes | Yes | Yes | yes | Yes |
| Tagget in low with that set under leablasts Directive and WID VIEP underschause considered in defen for individual biological identiests (benthic inventer baries, nagiopparim, mucros)pagal, Dovision from a reference condition as devined from existing data and eper judgment under the requirements of the normative defension of the WITQ, and formalized through the instruction process. | Current baselines may need to be used in line with available ovidence; however, future research may allow the settler of a baseline based on historical data or reference conditions (as recommended in HBDSGG report.) Further outdoors base for baselines is presented within HBDSGG report. | The key for making this a successful indicator is making use that changes in discribitation/extent artitudent of authrospoin/pressures and not seen as a result of better mapping / Improved habitat modelling. It may be appropriate page different methodologies when measuring spatial netter of betterdard vs. solididad selement habitats. Information on pressures and direct doservation of loss of rabbitats. United in the other changes of the control of on or habitats. Tullenge in the other habitation of all mapping of the control of the control of all mapping of the control of all mapping of the control of all mapping of all | WITD normalise definitions compatible with MSTD descriptors for coastal waters defined as the level of identify and abundance of invententate tax sais slightly outside the range associated with the type-specific conditions. Most of the arrange associated with the type-specific conditions. Most of the member has a present. Most of disturbance entative managing and algocyper mass associated with undisturbed conditions are present. The level of managing rows and angiosperim abundance show slight agree of disturbance. | yes | Yes | Yes | Yes | yes | Yes |
| WTO evidence base considered in detail for individual biological elements (benefit invertabless), deviation from a reference condition as derived from existing data and expert judgement under the requirements of the numerable editionism of the WFIQ, and formalised through the internalization process. | Fusions a base considered in detail for WFD tool development. Reference conditions are defined using a combination of historic data and expert judgement. | The indicator and target would have to be scaled up to be applied for MSFD. | WITD normative definitions compatible with METD descriptors for coastal waters femined as the level of indevisity and abundance of invertebrate taxas is slightly outside the range associated with the type specific conditions. Most of the extensive taxa of the speciose committee are present. Most disturbance of the specific committee are present. However, the specific committee are present. How disturbance conditions are present. The level of macronigial cover and angiosperm shaundance show slight signs of disturbance. | | | | | yes | |
| WITO networks been considered in facts for individual balagings deverently behalf inventional supplement, increasingly, obvotices from a inference condition as defrued from existing data and expert judgment under the conditions as defrued from existing data and expert judgment under the experimentes of the number definitions of the WFD, and formalised through the internalization process. | Nations have considered in detail for VVID but development, inference oppositions are developed in a constitution of the available from previous data and epport pulgament with reference conditions being subspeed according to historia. Reference conditions for the IQI are under continued development as also becomes a wallable. | The indicator and target would have to be scaled up to be applied for MSTO. | WPD promotive definitions congraption with MDD promotives for control without femiliar size the view of developing and authorities of inverticents are size femiliar size. The view of the page specific consistions, fosted of the manifest trans and they specific commissions are present. Most disturbance conditions are present. The level of microsoligic cover and angiosperin aluminations are present. The level of microsoligic cover and angiosperin aluminations through the present of the control of the control of the plant dispose of disturbance. | | | | | yes | |
| WID evidence base considered in detail for individual biological elements (benefich inventibates), elevation from a reference condicion as derived from existing data and speep judgement under the condicion as derived from existing data and speep judgement under the condicion as derived from existing data and speep judgement under the process of the second process of the series, and formalises directly the internalization process. | Fusions be accountered in detail for WFD tool development. Reference conditions are derived using a combination of historic data and expert judgement. | The indicator and target would have to be scaled up to be applied for MSFD. | MOT becomparise definitions compatible with MEDIO description for contail waters federed as the level of devertised at abouting of invertised tax as slightly sounder for regist succised with the type specific conditions. Most of the sensitive miscondition of the properties conditions. Most of the sensitive miscondition and properties as sounded with undustried conditions are present. The level of miscroslipt cover and angiosperm shouldness those slight signs of disturbance. | | | | | yes | |
| WID evidence base considered in detail for individual biological elements (lometic invertibates), elevation from a reference condicion as derived from existing sits and speep judgement under the condicion as derived from existing sits and speep judgement under the condicion as derived from existing sits and speep judgement under the lower process. The condition of the lower, and formibilised through the interralibration process. | Furthern & base considered in detail for WFD tool development. Reference conditions are derived using a combination of historic data and expert judgement. | The indicator and target would have to be scaled up to be applied for MSFD. | WITD constants definitions compatible with METD descriptors for coastal waters formed as the level of devertised at the based of overtised at the sales distinct and the sales of the sales | | | | | yes | |
| | | Reduck/beturhation reflect chemical/physical condition of habitat and closely inited to benthic function. | Codemier Profile Inseguy, Riccheough, et al. 2011. Combining pilotechasten and modementeric potential tools for assessing seads function. Ecological indicators. Targets can then be set according to the classic Pearson and Rosenburg gradient. | yes | Yes | Yes | Yes | yes | |
| Sedence have for excellably scores undergonned by habitant sensitivity research conducted as part of the McZ Project. | habitats using a combination of experj judgement and primary research. For further information on sensitivity assessment, see Report | Temocal of spacies (barget & non-target) and "Physical habitat damage' were canade highest. Strong link to flaberies impacts. Also applicable to criteria 6.1 and 6.2 | Is not yet possible to quantify what level of pressure will prevent unacceptable unacted. Infurite received in required on the list between pressure and state, on a habitat by habitat basis. However, where a habitat shows centrifying to a particular pressure. It is required to the lister will most tilely repect to be limited to a level that prevents unacceptable impact (i.e. for the habitat to show each prevent to the pressure of the pressure of the prevents unacceptable impact (i.e. for the habitat to show each). The conceptable impact considerable impact considerable impact (i.e. for the an impact causes to be in moderate impact considerable impact (i.e. for the an impact causes to be in moderate impact considerable impact (i.e. for sold read impact habitat). The conceptual interest the pressure operation of the pressure operation in the HBOSEG report. | yes | yes | Yes | Yes | | |
| Exidence base for sentitively scores underprinned by habitat sensitivity research conducted as part of the MCZ Project. | Sensitivity assessments based on current physical and biological composition of hubitatis using a combination of expert pulgents and primary research. For further information on sensitivity assessment, see Report | O'? ranked pressures based on the relative impact on sabed habitats: Finemoul of sportice larget it non-target? an Physical habitat damaged were ranked highest. Strong link to flaberies impacts. Also applicable to criteria 6.1 and 6.2 | It is not yet possible to quantify what level of pressure will prevent unscargable in papers. I further research is required on the lich between pressure and state, on a habitot jub habitat boxis. However, where a habitat shows esterolity to a particular pressure. If a proposer to that preserved will most takely need to be instelled to a level that prevents unscrappible impact (i.e., for the habitat to make the prevents and the present of the habitat to make the present of the present of the habitat to make the present of the present of the habitat to make the present of the present of the habitat to make with catacatable of the three of the doctor for the habitat to make with catacatable of the three district of the consideration and the present of the present | yes | yes | Yes | Yes | | |
| Exidence base for assistant scores undergransed by habitat sensitivity research conducted as part of the MKZ Project. | Sensitivity sessements based on current physical and biological composition of hubbats using a combination of expert judgment and primary research. For further information on sensitivity assessment, see Report | CP2 naived pressures based on the relative impact on sabeld habitatic. Thomsould specific larget it no not surger 10 m/hysical habitat damaging were raward inject. Strong link to flaberies impacts. Also applicable to criteria & 1 and 6 2. Also applicable to criteria & 1. | It is not yet possible to quantify what level of pressure was prevent unacceptable programs. I further research is required on the lich between pressure and state, on a habitat plus habitat boxis. However, where a habitat down sensitivity to a perioritary pressure, it is proquent to that pressure will most takely need to be instead to a level that prevents unacceptable impact (i.e., for the habitat to be will not a level that prevents and proposed to the pressure of the habitat to be will be used to be a level to the prevents and proposed to the pressure of the habitat to be will be used to be a level to the proposed to the pressure of the habitat to be with the pressure present the pressure pressured and present pressure and the pressure of the pressure and th | yes | yes | Yes | Yes | | |

| Evidence State for sensitively cover undergeneed by habital sensitivity research conducted as part of the MCZ Project. | Scorability assessments based on current physical and biological composition of hubbility using a contract of or epert physical and primary research, for hubber information on sensitivity assessment, see Report | CF2 annies pressures based on the relative impact on subset balance. Promoval depose, long the Sono people ("Whysical habbat canaged" were something the state of the state | It is not up opposition to quantify what I went of or source and organized rather consequent of the interpolation has independent processors and data, on particular present associations in a particular present association in the present with most likely need to be interested to a level that presents usucceptable integrated (i.e. for the habitate to achieve GES). This 'unacceptable impact' (i.e. where an impact cases to be in achieve GES). This 'unacceptable impact' (i.e. where an impact cases to be in achieve GES). This 'unacceptable impact' (i.e. where an impact cases to be invalided to the control of the control | yes | yes | Yes | Yes | |
|---|---|--|--|-----|-----|-----|-----|--|
| Evidence base for sentitively scores undergoned by habital sentitivity research conducted as part of the MCZ Project. | Sensitivity assessments based on current physical and biological composition of histories using control of expert plaquest and primary research, for Purchase reformation on annotating assessment, see Report | CF2 annies pressures based on the relative impact on subset balance. Homovool deposits, page 16 non tegethy 7 hybrical habbits classify were through the property of the compact. Also applicable to orderin 6.1 and 6.2 and 6.2 are through the content 6.1 are through the | It is not yet procede to quantify what I went of pressure and prevent assocraption and state, on proceded. Further reasons he required on the label between pressure and state, on particular pressure, it is exposure to that pressure will most likely need to be pressured by the present succeptable integer (i.e., where an impact passes to be suchiese (62). This 'unacceptable impact (i.e., where an impact passes to be suchiese (62). This 'unacceptable impact (i.e., where an impact passes to be suchiese (62). This 'unacceptable impact (i.e., where an impact passes to be suchiese (62). This 'unacceptable impact (i.e., where an impact passes to be such as the pressure of the pressure and the pressure and well as the pressure and the pressure appoints and such control of the pressure and the pressure and pressure of the pressure and the pressure and pressure of the pressure and the pressure and pressure and and | yes | yes | Yes | Yes | |
| Endence has for sentitivity scores undergined by habital sensitivity research conducted as part of the MCZ Project. | Sentitudes y assessments based on current physical and biological composition of hisbatist using contraction of expert judgment and primary research, for Purther reformation on sensitivity assessment, see Report | CPT annihed pressures based on the relative impact on sciender habitats: Primoral of spocies (page 16 non-tegrity 7 m/Project) habitat denaged were Primoral of species (page 16 non-tegrity 1 m/Project) habitat denaged were Primoral of the Primoral | It is not yet possible to quantify what it well of pressure will prevent executypaths against: further research in required on the label between pressure and state, on particular pressure, its exposure to that pressure will most likely need to be particular presents usuccapsible invested (a. or for the habitat to achieve GSI). This 'unacceptable invested (a. where an impact cases to be in achieve GSI). This 'unacceptable invested (a. where an impact cases to be in achieve GSI). This 'unacceptable invested (a. where an impact cases to be in achieve GSI). This 'unacceptable invested (a. where an impact cases to be in achieved to the control of the control of the control of the control of the achieved the control of the control of the control of the value of the control of the control of the pressure of the control of the control of the pressure of pressure of pres | | yes | Yes | Yes | |
| Extension is as for sensitivity cores underprised by habital sensitivity research conducted as part of the MCZ Project. | Somitivity assessments based on current physical and biological composition of hisblids using a conduction of experts plagent and primary research. For Purchas relativistics contained to expert plagent and primary research. For Purchas relativistics con annotativity assessment, see Report | GY attack pressures based on the relative impact on subself-shabitat. Removed deposite cyting 6 non-tegrify 1 hypotical habitat demanged were created in flying. Storag link to filtherins impacts. Also applicable to ortenia 6.1 and 6.2 are sharped as a subself-shabitat or ortenia 6.1 and 6.2 are sharped as a subself-shabitat or ortenia 6.1 and 6.2 are sharped as a subself-shabitat ortenia 6.1 and 6.2 are sharped as a subself-shabitat ortenia 6.1 and 6.2 are sharped as a subself-shabitat ortenia 6.1 are sharped as a subself-shabitat ortenia 6.1 are sharped as a subself-sharped as a subself-s | It is not up apposite to quantify what have of pressure and present associated aspect.— Further reasons have in required on the last between pressure and state, on particular present associated in a required on the last between pressure and state, on particular pressure, its exposure to that pressure will most lastly need to a particular presents unscappable integer (i.e., where an impact cases to be in where the contract of the pressure and present in the pressure and present cases to be in where the contract in the pressure of the pressure and pressure cases to be in which the pressure and th | yes | yes | Yes | Yes | |
| Endomics base for sensitivity scores underprised by habital sensitivity research conducted as part of the MCZ Project. | Sensitivity assessments based on current physical and biological composition of histories using control of experts plaget and grimmity research. For Purchase reformation on annativity assessment, see Report | CP raised represents based on the relative impact on scaled histology. Removal of specie (spik a four supply) of Physical subback drawings* were canded highest. Strong link to fisheries impacts. Also applicable to criteria 6.1 and 6.2. | It is not yet possible to quantify what level of pressure will present exceptable and task, on paging, it further research is required on the left between pressure and state, on particular pressure, its exposure to that pressure will most likely need to be particular pressure, its exposure to that pressure will most likely need to be where dots; This 'unacceptable inspect (is, where an impact cases to be ableted 62). This 'unacceptable impact (is, where an impact cases to be ableted 62). This 'unacceptable impact (is, where an impact cases to be ableted 62). This 'unacceptable impact (is with one and impact cases to be ableted 62). This 'unacceptable impact (is with one and impact cases to be ableted 62). This 'unacceptable impact (is with one and impact cases to be ableted 62). This 'unacceptable impact (is with one and impact cases to be ableted 62). The case of the ca | yes | yes | Yes | Yes | |

| Descriptor | Component | Proposed_Indicator_Name | Target-setting_approach | Evidence-base_for_indicator_DETAILS |
|------------|------------------|---|---|--|
| 1 | Birds | Distributional range of breeding | Target set as deviation from | Past performance of previous surveys (e.g. |
| | | seabirds | baseline | Mitchell et al. 2004) |
| 1 | Birds | Distributional range of non-breeding | Target set as deviation from | WinGS past performance (Burton et al.). Inshore |
| | | seabirds & waterbirds | baseline | benthos indicators under development |
| 1 | Birds | Distributional range of non-breeding | Target set as deviation from | WeBS & NEWS past performance - see Musgrove |
| | | shorebirds | baseline | et al. |
| 1 | Birds | Distributional pattern of breeding | Target set as deviation from | Past performance of previous surveys (e.g. |
| | | seabirds | baseline | Mitchell et al. 2004) |
| 1 | Birds | Distributional pattern of non- | Target set as deviation from | Evidence from Petersen & Rexstad |
| | | breeding seabirds & waterbirds | baseline | |
| 1 | Birds | Distributional pattern of non- | Target set as deviation from | WeBS & NEWS past performance - see Musgrove |
| | | breeding shorebirds | baseline | et al. |
| 1 | Birds | Breeding success of species sensitive | | Tasker & Furness listing sensitive species. |
| | | to food availability | baseline) | |
| 1 | Birds | Seabird adult survival | Absolute Value (target not set at baseline) | Previous results of SMP and ringing scheme |
| 4 | Birds | Breeding success of species sensitive | Absolute Value (target not set at | Tasker & Furness listing sensitive species. |
| | | to food availability | baseline) | |
| 1 | Birds | Invasive species monitoring | Absolute Value (target not set at baseline) | Priority islands listed in Ratcliffe et al |
| 1 | Birds | By-catch monitoring | Target set as deviation from | Good information in Carss on Cormorants. Some |
| | | | baseline | information in past in Zydelis (2010) and from |
| | | | | ringing scheme. Current levels of mortality e.g. |
| | | | | From long-line fisheries largely unknown |
| 1 | Fish_Cephalopod | Distributional range of Fish | Target set as deviation from | ICES WGFE and scientific literature. |
| | | (Continental Shelf Seas) | baseline | |
| 1 | Fish_Cephalopods | Distributional range of Fish (Shelfedge Seas) | Target set as deviation from baseline | ICES WGFE and scientific literature. |
| 1 | Fish_Cephalopods | Distributional pattern within range of | | ICES WGFE and scientific literature. |
| _ | | Fish (Shelf-edge Seas) | baseline | See That E died dolontino interacturer |
| 1 | Fish_Cephalopods | Distributional pattern within range of | | ICES WGFE and scientific literature. |
| 1 | | Fish (Continental Shelf Seas) | baseline | TOLD TO IL GITA SCIENTING INCITATOR |
| | | | | |

| 4 | Fish_Cephalopods | Dietary functional group biomass | Target set as deviation from baseline | These fish predator groups were used in the early ERSEM modelling work and have supported previous food web studies (Greenstreet, S.P.R., Bryant, A.D., Broekhuizen, N., Hall, S.J. & Heath, M.R. (1997) Seasonal variation in the consumption of food by fish in the North Sea and implications for foodweb dynamics. ICES Journal of Marine Science, 54: 243-266.) |
|---|--|---|---|--|
| 1 | Rock_Biogenic_Reef_Speci | Eco(380) Extent of subtidal biogenic structures | Absolute Value (target set as baseline) | Lindenbaum et al. 2008; Moore et al. 2009 |
| 1 | Rock_Biogenic_Reef_Speci al_Habitat_Species | Eco(365) Abundance of associated species on biogenic reef | Target set as deviation from baseline | Rees et al . 2008; Sanderson et al. 2008. |
| 1 | Rock_Biogenic_Reef_Speci al_Habitat_Species | Eco(370) Density of biogenic reef forming species | Target set as deviation from baseline | Rees et al . 2008; Sanderson et al. 2008. |
| 1 | Rock_Predominant_Habitat s | Sponge diversity | Target set as deviation from baseline | Literature by Bell. |
| 1 | Rock_Predominant_Habitat | Eco(244) Intertidal species composition & abundance | Limits / thresholds | Wilkinson et al. |
| 1 | sediment_Predominant_Ha bitats | distribution of pressures | Limits / thresholds | Maps etc |
| 1 | sediment_Predominant_Ha bitats | RPD & Bpc | Target set as deviation from baseline | Paul Dando to add. (Sediment Profile Imagery. Birchenough et al 2011 also suggest combining bioturbation and redox metrics: potential tools for assessing seabed function. Ecological indicators). |
| 1 | sediment_Predominant_Ha bitats | Area covered by non-breeding inshore benthos feeders | | Past performance of previous surveys (e.g. Kaiser/Sanderson) |