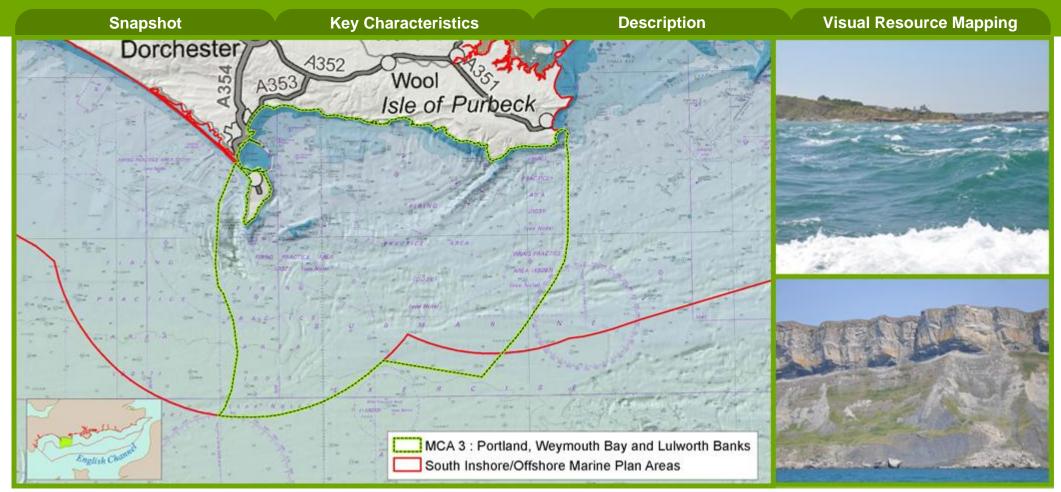


Marine Management Organisation

Seascape Assessment for the South Marine Plan Areas

MCA 3: Portland, Weymouth Bay and Lulworth Banks



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Snapshot

Key Characteristics

Description

Visual Resource Mapping

Location and boundaries

This Marine Character Area (MCA) extends from the Isle of Portland in the west to Peveril Point, at the southern edge of Swanage Bay, in the east. The western boundary starts at the eastern extent of Chesil Beach, taking in the waters surrounding the Isle of Portland to account for the influence of the landform on local sea conditions. It also includes all of the Studland to Portland inshore cSAC. The MCA extends offshore to a maximum distance of approximately 35 kilometres (19 nautical miles) and maximum 50 metres depth, broadly consistent with the boundary of the South Inshore Marine Plan Area. It includes the offshore Firing Practice Areas associated with Lulworth Gunnery and all of Weymouth Bay, extending eastwards to the southern edge of Poole Bay at Peveril Point. This marks the transition to a seascape defined by greater human activity and coastal development (MCA 4). This eastern MCA boundary also takes into account the Seascape Character Type (SCT) boundaries of the Dorset Seascape Character Assessment (2010)¹.

Please note that the MCA boundaries represent broad zones of transition (not immediate breaks in character). Natural, visual, cultural and socioeconomic relationships between adjacent MCAs play a key role in shaping overall character. Therefore individual MCAs should not be considered in isolation.

Overall character

The MCA is historically renowned for areas of dangerous seas owing to the presence of rocky ledges and sand banks and complex tidal currents, including the notorious Portland Race as tides clash around Portland Bill. These contrast with the sheltered deep-water Portland Harbour and calm waters of Weymouth Bay, which are a hub of social and economic activity linking coast and sea, including ports, shipping, fishing, transportation, recreation and tourism. This busy western part of the MCA contrasts markedly with the eastern part of the MCA, which is framed by the highly tranquil and sparely settled Purbeck coast. The area is perhaps most famously associated with its varied and scenic coastline, with features such as Durdle Door and Lulworth Cove drawing tourists, artists and writers to the area over many centuries. Panoramic views along the coast and out to sea are a defining feature of the area, whilst views back to the land are defined by the white, golden and grey cliffs topped by rolling pastoral downland, the rising land of the Purbeck Ridge, and the wedge-shaped Isle of Portland. The Isle also forms a strong seascape feature in views from across Lyme Bay (MCAs 1 and 2). The varied underwater environment attracts a rich marine life, including the lobsters and crabs which are potted by local fishermen.

¹LDA Design (2010). Dorset Coast Landscape and Seascape Character Assessment. Dorset Coast Forum and Coordinated Centre for Integrated Coastal Zone Management Belgium. Oxford.

Snapshot	Key Characteristics	Description	Visual Resource Mapping
Adjacent National Character A	reas (NCAs)		
The adjacent coastline includes t	he following NCAs as defined by Natural En	gland ² :	
• 137: Isle of Portland			
• 138: Weymouth Lowlands			
• 136: South Purbeck			
Adjacent nationally protected	landscapes		
	astern landward extent of the MCA boundary ding coastal waters, also falls within the Purb		

Dorset and East Devon World Heritage Site ('Jurassic Coast').





Snapshot	Key Characteristics		Description	Visual Resource Mapping
	island of the Isle of Portland in the nd by a shingle causeway. Views to from the Purbeck Coast	•	Strong defence connections since the including the former Naval port of Por Lulworth Gunnery Range, whose Dar nautical miles offshore.	rtland Harbour (1845-1995) and
the grey cliffs of Portland Ston	geomorphology of world renown, from e to the complex strata of ancient orset coast, displayed in sheer cliffs, s Durdle Door.	•	Distinctive Portland Stone and Purber their architectural qualities, historically sea directly from their coastal outcrop	y quarried and transported by
canyons (e.g. Portland Deep), Banks, Worbarrow Bay Reefs	v	•	Commercial port of Portland providing of the maritime industry and military. Harbour is a freight and passenger tra important fishing port.	The nearby Weymouth
	associated with St Alban's Ledge, as Race. Here turbulence is created by In the Bill and The Shambles	•	Automated lighthouses at Anvil Point former lighthouses and a 7 metre high acting as navigation marks.	
	aters of the deep-water Portland ong providing safe anchorage for	•	Notable daymarks used for navigation (Grade II listed) on top of Hen Cliff, but observatory and folly.	
 Complex tidal currents with sn areas of 'double low water' be Cove. 	nall tidal ranges, as well as unique tween Portland Harbour and Lulworth	•	Portland Marina and National Sailing 2012's Olympic sailing events) provid yachting, with associated buildings fo	ling a centre of excellence for
	arine ledges and reefs, supporting s contain important nursery grounds bass and sand eel.	•	Rich fishing grounds for lobster and c (rod and line) common off Portland Bi scuba diving charters are valued eco	ill. Recreational fishing and
habitats, including flower-rich	nternationally designated coastal unimproved calcareous grasslands, op and slope vegetation, home to	•	Much of the coastal edge crossed by affording panoramic views out to sea is popular for a variety of recreational water.	and along the coast. The MCA
 A concentration of historic ship conditions faced by sea farers A rich legacy of cultural assoc 		•	White and golden cliffs of the Purbecl the Isle of Portland forming recognisa sea (including from ferries arriving/de	able features in views from the
	cenic coastline and ever-changing	•	Development focused around Portlan of Swanage, with long stretches of sp between evoking high levels of tranqu	parsely settled coastline in-

Snapshot	Key Characteristics	Description	Visual Resource Mapping
three headings, considering the 'Aesthetic / perceptual' characte should be noted, however, that a interact with each other to varyin Natural influences This MCA is framed in the west of Portland, which is connected to marking the eastern extent of Ch a conspicuous, wedge-shaped la reaching some 130 metres AOD	ristics of the Marine Character Area. It III of these aspects combine and g extents to shape character. by the distinctive tied island of the Isle o the mainland by a shingle causeway hesil Beach (within MCA 2). The Isle is andform, with an elevated plateau affording panoramic views across the Channel and west over Lyme Bay. It is up from the sea – strongly	The Isle forms the southern-most po stretch of Dorset coast, the majority East Devon Coast World Heritage Si displaying a complex strata of soft ch sandstone cliffs subject to frequent la include fossil-rich sections, dating ba visitors and fossil-hunters from arour golden cliffs rise up from the sea to o Alban's and Durlston Heads being th interspersed between coves, shingle geomorphological features such as o including the famous Durdle Door. B downland and, in the east, the drama long, interrupted views over the sea forms a distinctive backdrop itself to	of which falls within the Dorset and ite. It is a dynamic coastline, halk, limestone, shale, siltstone and andslides and rock falls. The cliffs ack 185 million years, attracting hd the world. Prominent white and over 160 metres in parts, with St he largest in a series of headlands beaches and classic caves, sea stacks and arches – eyond the cliffs is elevated, rolling atic Purbeck Ridge which affords and Poole Bay (MCA 4). It also
		The waters surrounding Portland Bill graveyard of many vessels that failed Roads, due to the notorious Portland extended area of broken water in the meeting of strong tidal streams flowin clash at the Race, where submerged Shambles sandbank (marked by a re The currents break the sea so fierced disturbance and areas of white water distance.	d to reach Weymouth or Portland Race. This is the most dangerous English Channel, caused by the ng down either side of the Bill to ledges, shoals and the nearby ed sector light) are also located. In that from the shore a continuous r can be seen from quite a

Durdle Door

Strong currents and overfalls are also associated with Saint Alban's Ledge – a rocky limestone ledge extending 10km offshore covered by waters as shallow as eight metres. The nearby lighthouse on Anvil Point and coastguard lookout station on the headland itself provide

Snapshot	Key Characteristics	Description	Visual Resource Mapping
rough and turbulent seas, Portla sheltered from the open seas an landform of the Isle of Portland.	essels. In contrast to these areas of nd Harbour and Weymouth Bay are d prevailing south-westerly's by the This location has formed an obvious and Portland, and safe haven for rge-scale features in the bay.	its nature conservation interest, includin Studland Cliffs SAC, Chesil and The Fle and Isle of Portland SSSIs. These reflect present, including floristically-rich calcal heathland, vegetated shingle, saltmarsh supporting internationally important sea Cultural / social influences The rich coastal and marine resources of for millennia, with evidence for early hur including ancient burial tumuli and medi Stone has been quarried since the Rom quarries providing evidence of this past particular was quarried extensively in the distinctive grey Portland Stone is displa buildings such as Buckingham Palace a as many local buildings including the im the Verne being a former military citade	eet SAC, South Dorset Coast of the diverse maritime habitats reous grasslands, scrub, chalk n, reedbeds and wetlands, and wetland bird populations. of the area have been exploited man occupation on the clifftops eval strip lynchets. Purbeck nan period – with relict cliff-face activity. Purbeck Marble in e medieval period, and the yed in landmark London and St Paul's Cathedral, as well posing HM Prisons on Portland,



Portland Stone on a stretch of the South West Coast Path

The coastline of the MCA is nationally and internationally designated for Other natural resources exploited in the area include oil derived from

Portland Bill

The underwater ledges, reefs, sandbanks and subtidal sediments in general are highly valued both for their geological diversity and biodiversity, such as sea fans, sponges, coral, shellfish (including reef-

forming mussels) and nursery grounds for fish, e.g. flatfish, seabass and sand eel. A large proportion of the MCA is within the Studland to Portland candidate SAC (cSAC), the South Dorset recommended Marine Conservation Zone (rMCZ) is located in the south, and the

Chesil Beach and Stennis Ledges rMCZ to the west. Marine mammals also use the rich waters as feeding grounds, with annual sightings of bottlenose dolphins off Durlston Head and Portland Bill.

Snapshot	Key Characteristics	Description	Visual Resource Mapping
natural oil found in the shales, y combusted to cause the cliffs to Kimmeridge began in the 1950 donkey' has been pumping com working oil pump in the UK. Oi Harbour (MCA 4), from where i Southampton Water before bein 'nodding donkey' pump is a rec sea around the Kimmeridge Le The rocky ledges, reefs and se provide rich nursery and feedin do the shipwrecks lying on the has strong historic associations Golden Sunset – an Admiralty p Shambles in 1918. A white stor lighthouse stand on the Bill to a travelling through the MCA. Weymouth is one of the region' include lobster, crab and pink p Portland Bill (stored in Portland scalloping on Lulworth Banks a seabass is also common off Po are a valuable economic activit popular site for sole, bream and wrecks and reefs, also attracts The area has a long-standing a shelter provided by Portland Bil ships at Portland Harbour, expl Portland Castle and Sandsfoot Navy also saw the potential, be harbour in 1847, using stone fro	diments that characterise the seabed g grounds for a range of fish species, as sea floor. The notorious Portland Race with shipwrecks, including the HMS patrol vessel that foundered off The ne obelisk and red and white banded assist in navigation to current vessels s major fishing ports, and activities rawn potting, mussel dredging off Harbour to meet winter demand), nd whelking. Rod and line fishing for rtland Bill. Recreational fishing charters y – The Shambles is a particularly d seabass fishing. The varied sea life,	metre high pillar of rock, Nicodemus F behind Waycroft Quarries on the Isle a amount of stone that was used (six m two breakwaters were built to defend in the late 19 th and early 20 th centuries during the World War I. The port also of Britain during World War II – being Day landings, and research centre for and torpedoes). Further strengthening the area's milita Ranges cover more than 2,830 hectar Live firing practice from Lulworth Gun offshore, resulting in a six-nautical mil on St Albans Ledge. During live firing with flashing lights on Bindon Hill, Kim Head. A range patrol boat is also press Danger Area to ensure compliance by restrictions. Portland Port also continu- training and testing facilities to the MC Portland Port, a former Naval facility ³ , shoreside facilities. The 'inner harbour harbour in the world, whilst the 'outer Bay offer natural shelter to vessels. The the range of deep-water and shoreline from small yachts to cruise liners. The towage, crew and store transfers, mai handling. The Harbour Authority has o plans to further enhance Portland Por maritime industry, including for a ship excellence for offshore and marine ref	as a monument to mark the illion tonnes in total). The second against underwater torpedo attack s, and were further strengthened played a key role in the defence the main departure point forthe D- underwater defence (e.g. sonar ary associations, the Lulworth res from Lulworth to Wareham. nery includes rounds fired e Danger Area, with target buoys red flags are flown, in conjunction meridge Bay and St. Albans sent on the edge of the marine boats with the access ues to provide a home port, D. is a hub of activity with significant r' remains the largest man-made harbour' and wider Weymouth he port is continually expanding e facilities it provides for vessels ese include bunkering, pilotage, ntenance and repairs, and cargo consented major development t's international importance to the repair yard and centre of

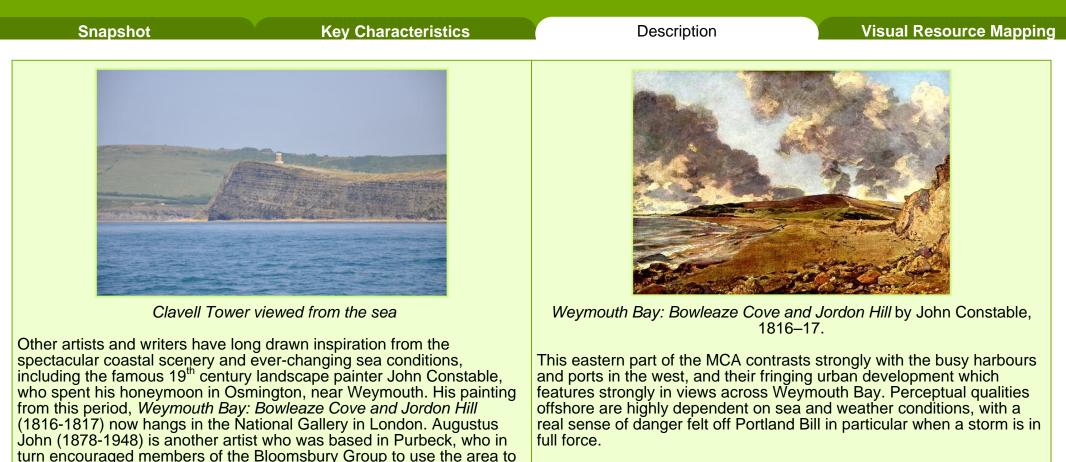
³ Portland Port Limited and Portland Harbour Authority Limited, owned by Langham Industries Limited, now manage and regulate the harbour following the Portland Harbour Revision Order 1997.

further back from the eroding cliff edge, the tower forms a prominent

feature when viewed from the sea.

internationally as rock climbing venues, receiving many thousands of

climbers each year (including on Portland). The rich geological strata also attract student field courses and fossil collectors to the area. Bird



Levels of tranquillity along the coastline and surrounding seas from Swanage to the fringes of Weymouth are particularly high, owing to a general absence of modern development or settlement. The peacefulness of the Purbeck coast is broken by the sounds of live firing from the Lulworth Gunnery (both day and night), and pockets of activity in holiday periods relating to the popular tourism destinations of Lulworth Cove and Durdle Door. The Purbeck Coast is valued for its remote, wild qualities, expansive sea views including views to the Isle of Wight.

fuel their creativity.

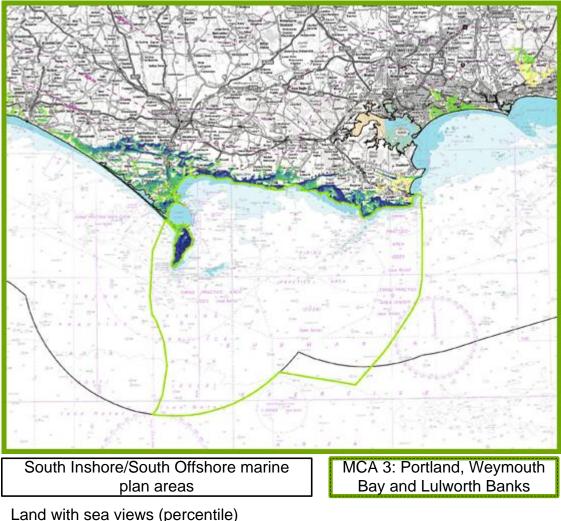
Snapshot

Key Characteristics

Description

Visual Resource Mapping

Land with views of MCA 3



21 to 40 41 to 60 61 to 80

1 to 20

81 to

100

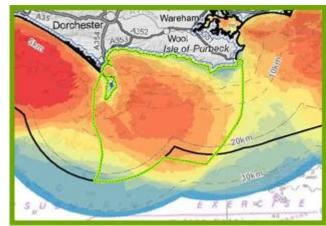
- Land with extensive sea views of the MCA includes the majority of the Isle of Portland including parts of the Dorest and East Devon World Heritage Site, broad stretches of the coastline between Durlston Head and Weymouth Bay, within the Purbeck Heritage Coast.
- Inland areas with extensive sea views are limited to between 5-10km and are restricted to ridges and high points along the Purbeck Ridge and between Abbotsbury and White Horse Hill within the Dorset AONB, including sections of the South Dorset Ridgeway, South West Coast Path.
- Land with low to moderate views of the MCA extend along the West Dorset Heritage Coast and land within the Tennyson Heritage Coast on the Isle of Wight.
- Inland views of the sea can be gained from Burley and elevated land around Bridport.
- Views of this MCA are generally restricted to within 5km of the coastline with large areas of the land with no views or restricted views of the sea.

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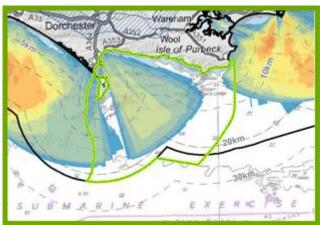
 Snapshot
 Key Characteristics
 Description
 Visual Resource Mapping

Visibility of sea from land

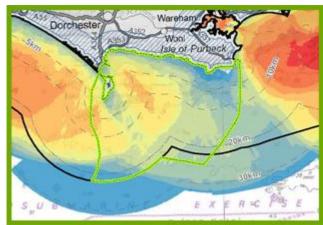
Relative visibility of the sea surface from viewers on land



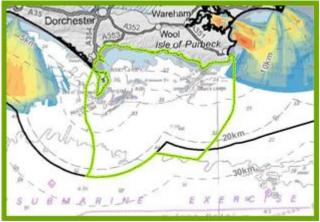
5-10km from the High Water Mark



1-5km from the High Water Mark



0-1km from the High Water Mark



10-20km from the High Water Mark

South Inshore/South Offshore marine plan areas						
MCA 3: Portland, Weymouth Bay and Lulworth Banks viewers						
Visibility of sea from land (percentile)						
1 to 10	11 to 20	21 to 30	31 to 40	41 to 50		
51 to 60	61 to 70	71 to 80	81 to 90	91 to 100		

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Snapshot

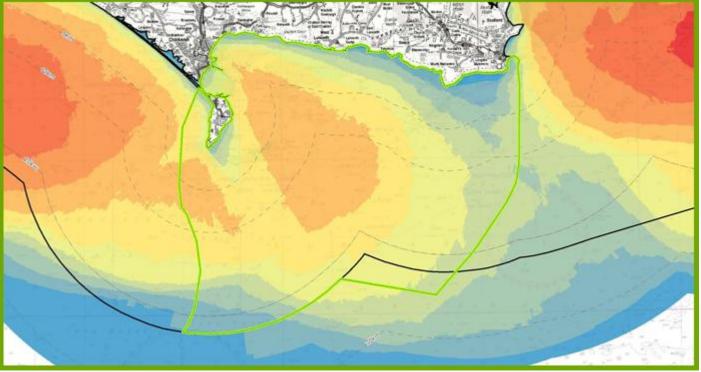
Key Characteristics

Description

Visual Resource Mapping

Visibility of sea from land

Relative visibility of the sea surface from viewers on land



Up to 20km from the High Water Mark

South Inshore/South Offshore marine plan areas

MCA 3: Portland, Weymouth Bay and Lulworth Banks

Visibility of sea from land (percentile)

1 to 10 11 to 20 21 to 30 31 to 40 41 to 50 51 to 60 61 to 70 71 to 80 81 to 90 91 to 100

- Within the MCA there are no areas with the highest visibility bands.
- The Isle of Portland breaks the visibility from the mainland creating a shadow effect extending from the eastern side of the isle between Portland Ledge and the Shambles.
- The areas of the MCA that are most visible from land are to the south of the Portland Ledge and a larger area extending seaward from Weymouth Bay to the middle of the MCA, crossing the Adamant Shoal and the eastern half of The Shambles sandbank.
- The southern boundary, east of the Isle of Portland and along the coastline between Lulworth Banks and offshore from Anvil Point is less visible from locations on land.
- Generally, visibility gradually increases offshore towards the middle of the MCA.
- The southernmost section of the MCA is more than 20km offshore and visibility of this section is likely to be affected by atmospheric conditions for much of the year.

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