

APPENDIX E LEVELLING DETAILS FOR WATER LEVEL RECORDERS AND TIDE GAUGES ON ILE BODDAM AND ILE DU COIN

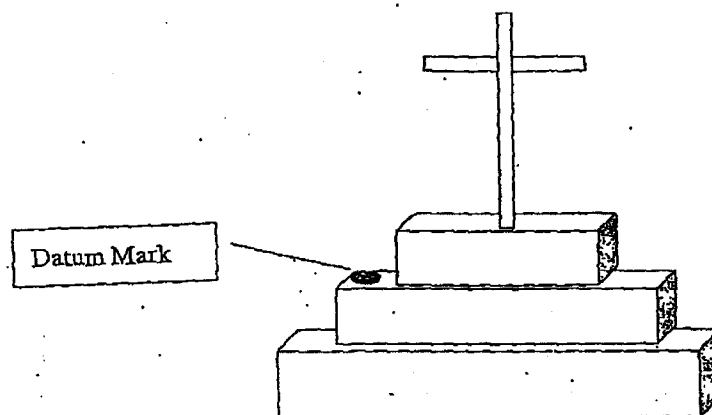
Ile Boddam

Local Datum Point established on step of Crucifix at side of Jetty: Washer pinned to step stamped with mark 'BGS'.

BLS1 was set 2.71 m below local datum mark

BLS2 was set 2.60 m below local datum mark

BLT1 was set 3.05 m below local datum mark

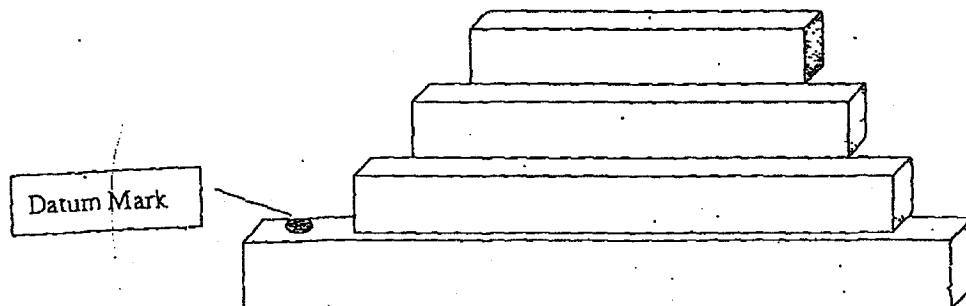


Ile du Coin

Local Datum Point established on left hand side (looking up stairs) of bottom step of seaward ornate staircase of Manager's Dwelling. Washer pinned to step. Stamped with mark 'BGS'.

CLT1 was set 2.46 m below local datum mark. (subsequently 2.61 m below local datum mark)

CLS1 was set 2.16 m below local datum mark



E-2283

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100

APPENDIX F ONGOING DATA OF GROUNDWATER LEVEL RESPONSE TO TIDAL FLUCTUATION AND AUTOMATIC WEATHER STATION DATA

This data and any preliminary interpretations from it have not undergone the final BGS QA processes and are for illustrative purposes and to demonstrate the data ranges currently available. No final interpretation should be made until a final peer review has taken place and QA audit completed.

Datasets

- Ile Boddam Water Levels (graphed as time series)
- Ile Du Coin Water Levels (graphed as time series)

Water levels corrected to local datum levels are plotted for the tides and monitoring points on each island. (Update: following a trip made to recover data in June 2001, the tide gauge sensor adjacent to Ile Du Coin was reset at a level 2.61m below the datum mark. This was to overcome problems with sedimentation around the sensor.)

The test data in shallow boreholes BLS1 and BLS2 and Well CW2 (sensor CLS1) indicate a tidal efficiency of approximately 10 per cent and a tidal lag of approximately 3 hours for the shallow groundwater.

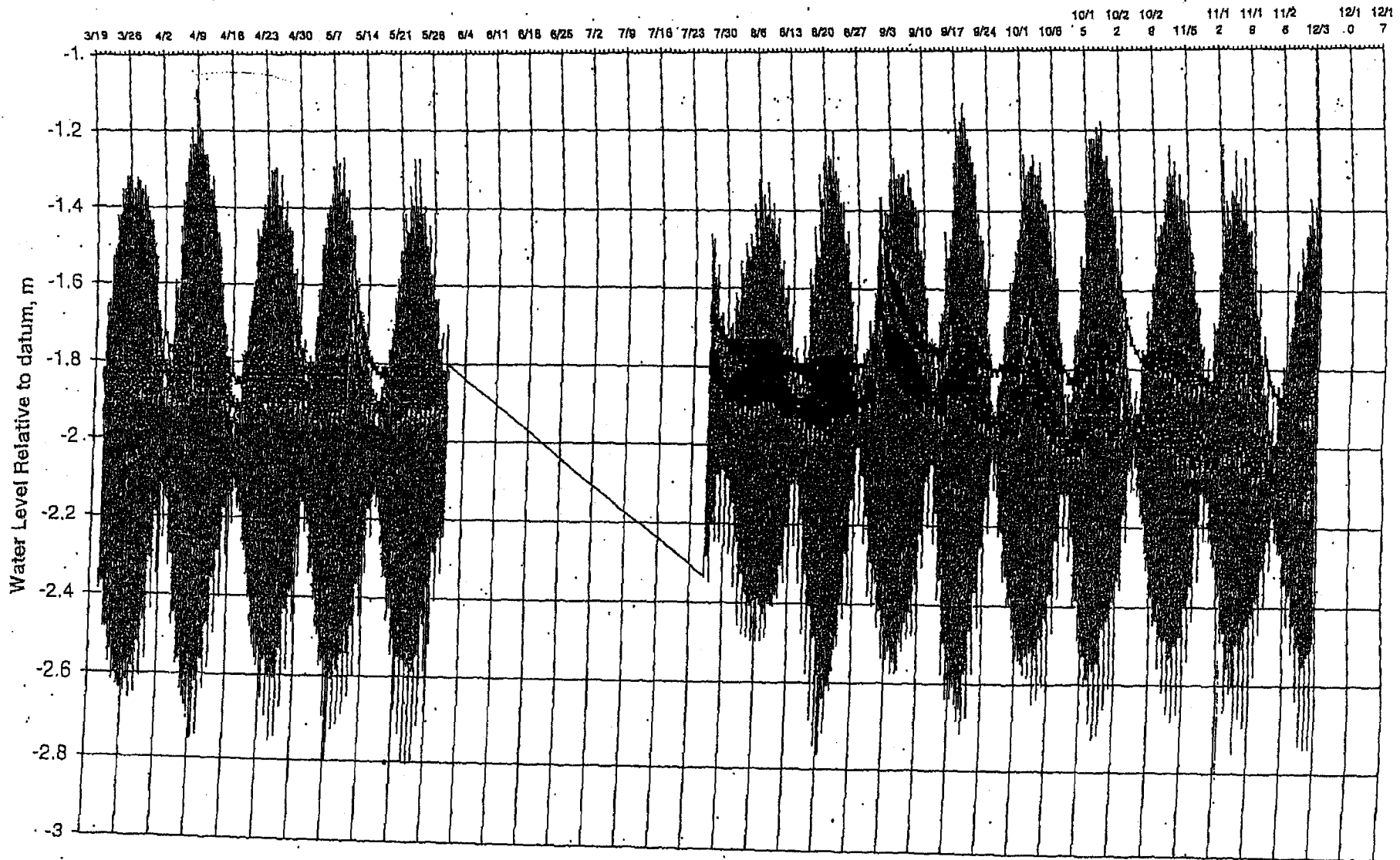
Datasets are not complete and June/July data has been overwritten due to not being download between June and December 2001

- Ile Boddam AWS data (graphed as time series)
- Ile Boddam Wind Data (graphed as roses)

Datasets are not complete and current AWWWS status is unknown due to not being downloaded

Boddam Water Levels
Date/Time

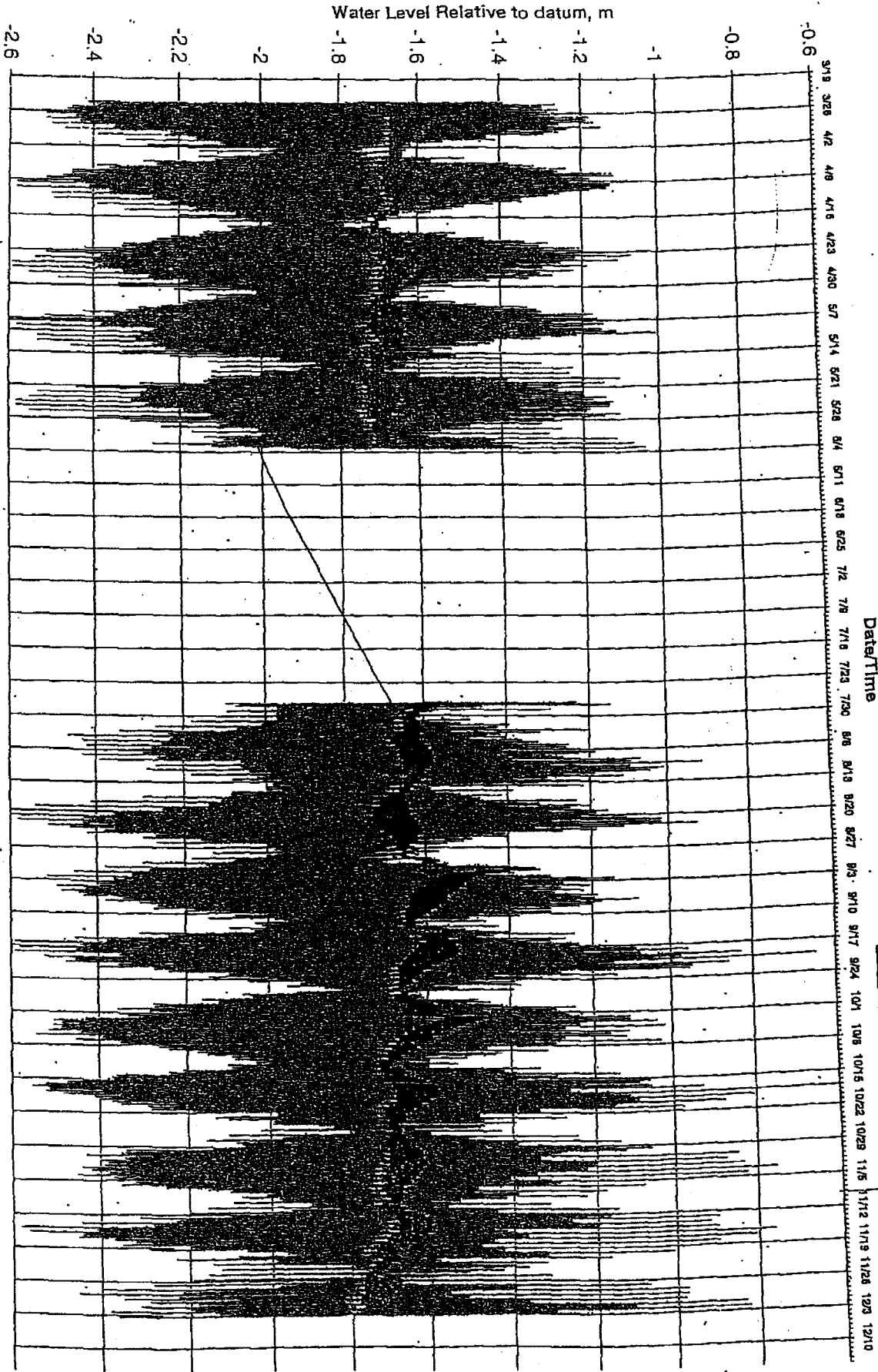
— Depth BLT1 — Depth BLS1 — Depth BLS2



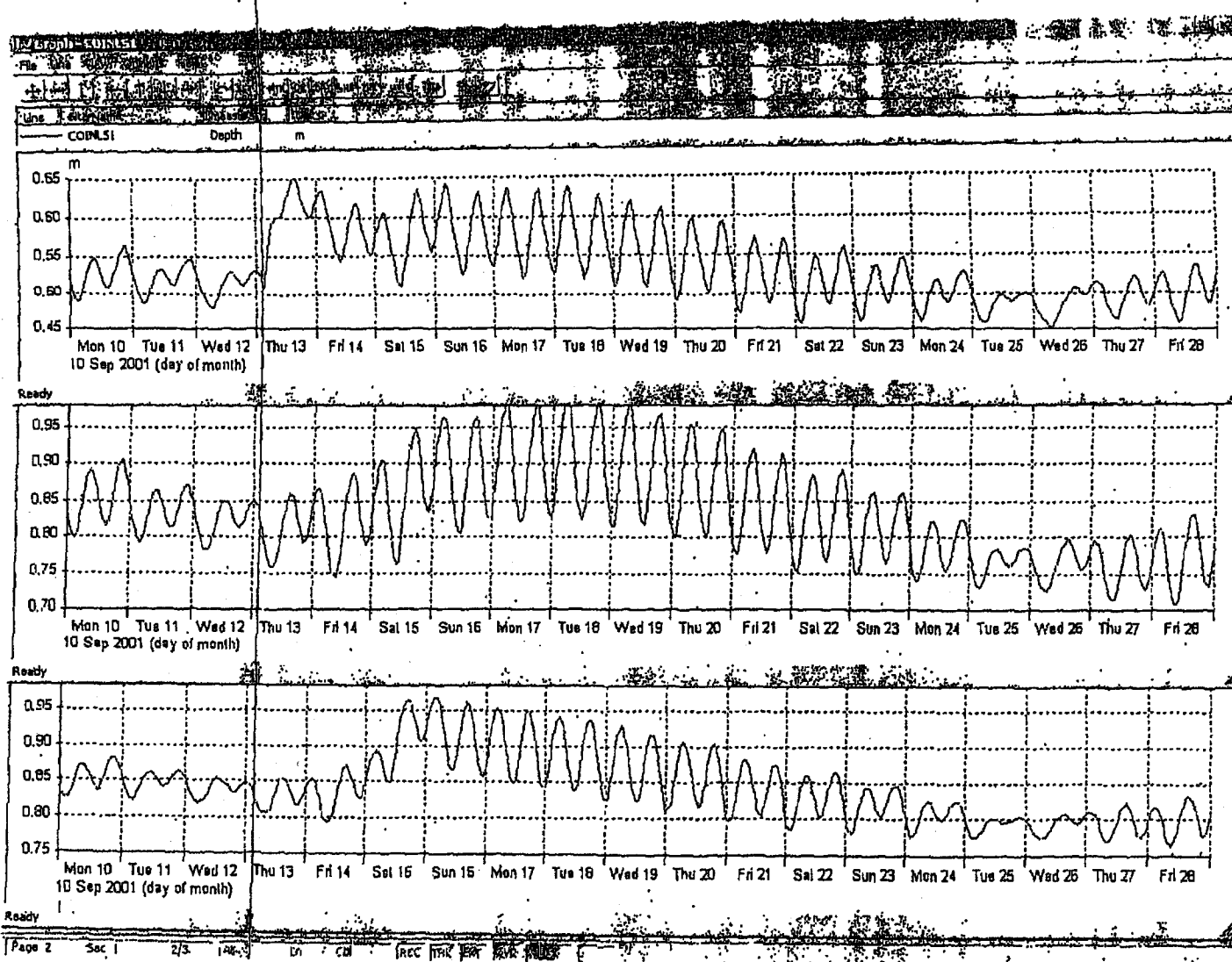
E-2286
246

E-2288
248

105



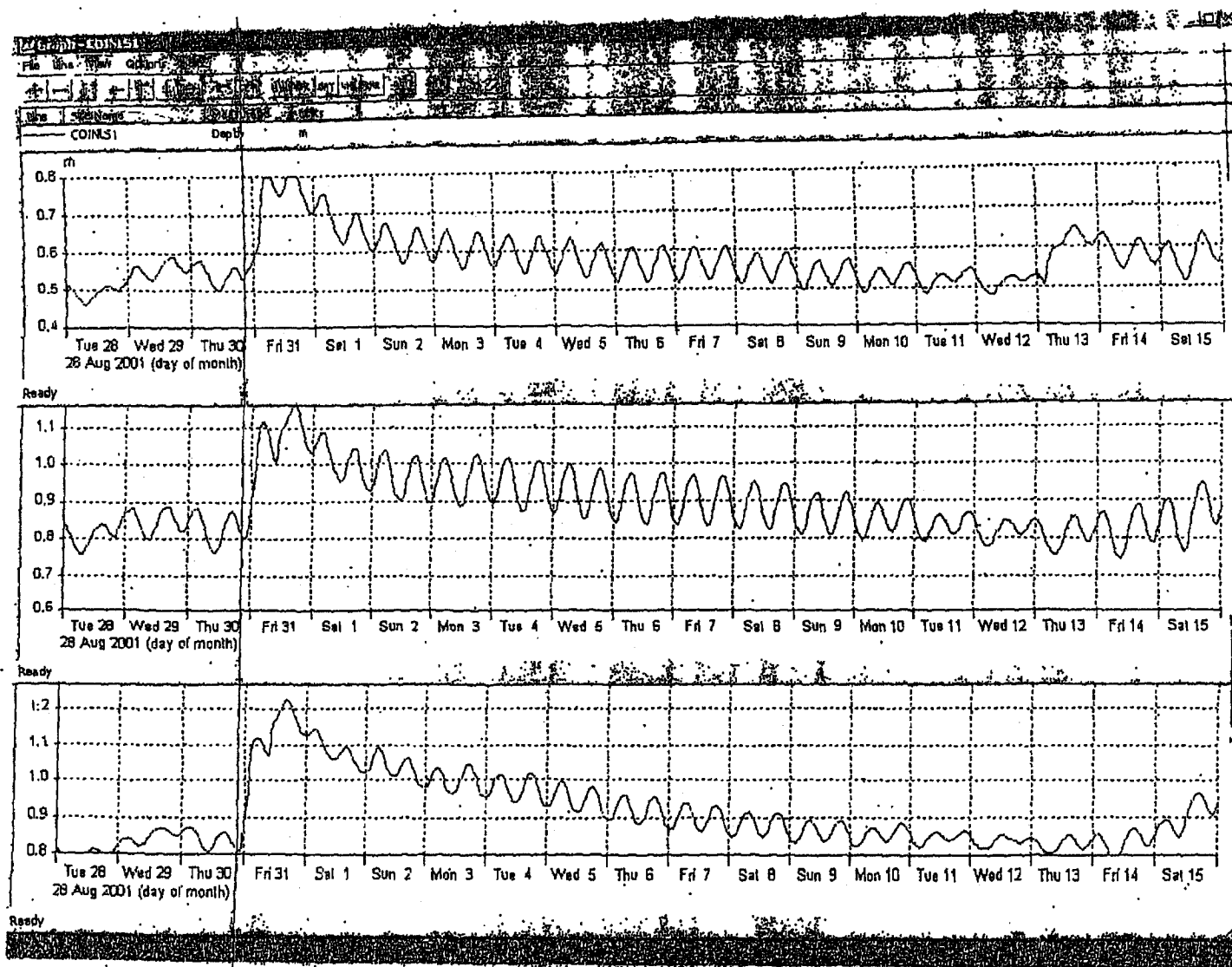
Recharge event of ~10cm only affects Ile du Coin.



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250

Lower two plots are of Ile Boddam Sensors. Upper plot is from Ile Du Coin.

Recharge event of >20cm affecting both islands:

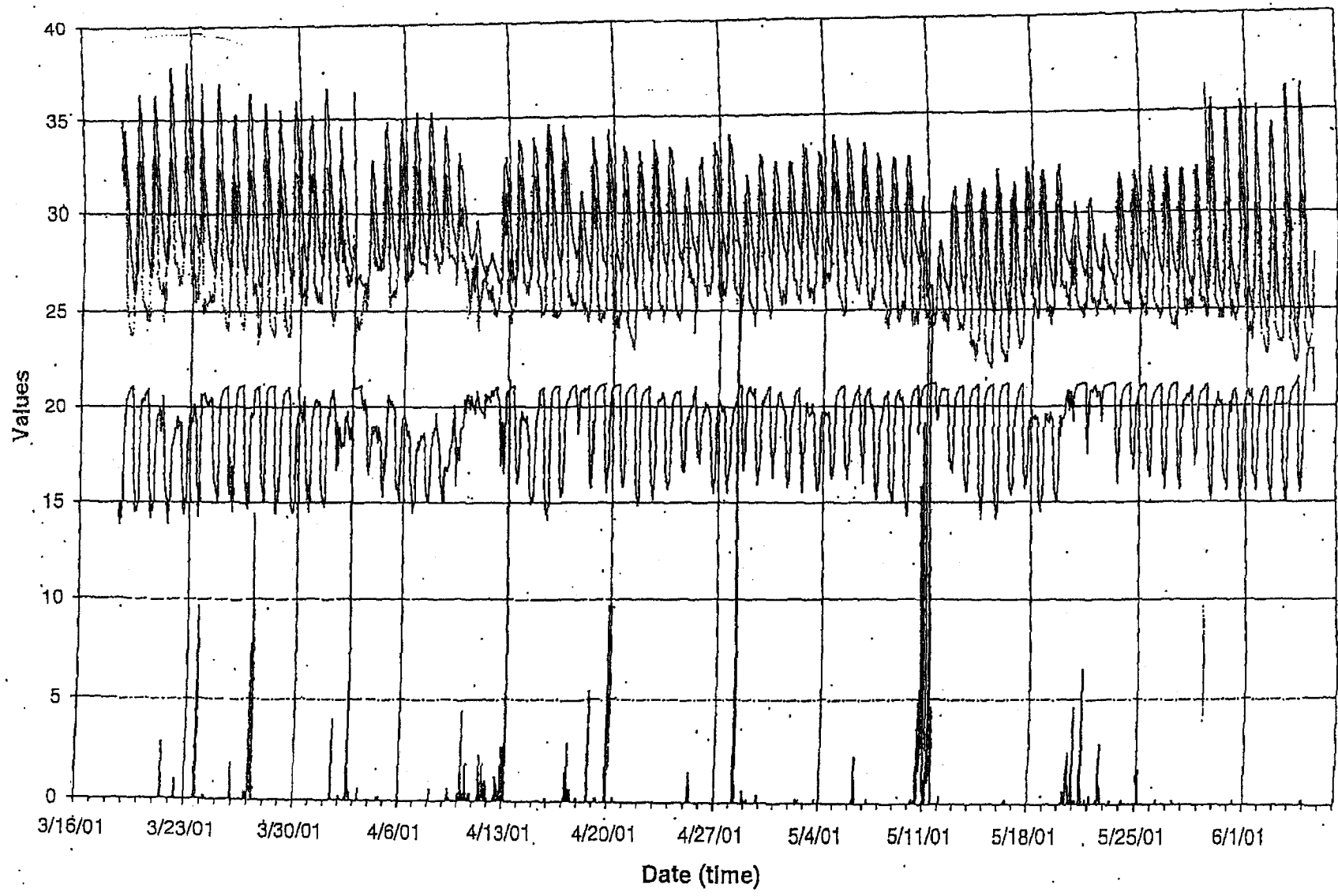


Lower two plots are of Ile Boddam Sensors. Upper plot is from Ile Du Coin.

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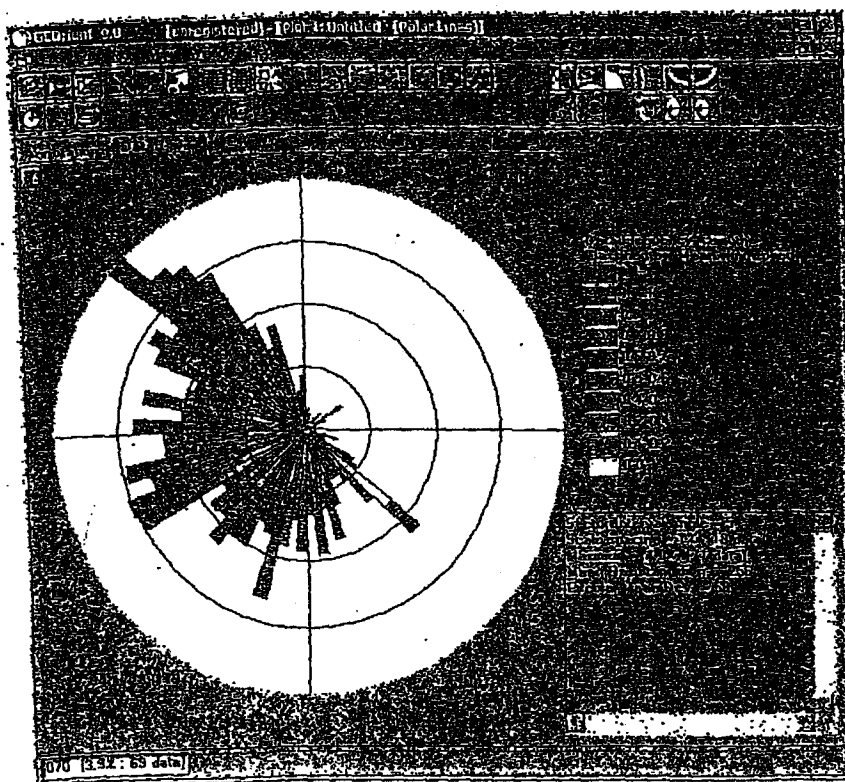
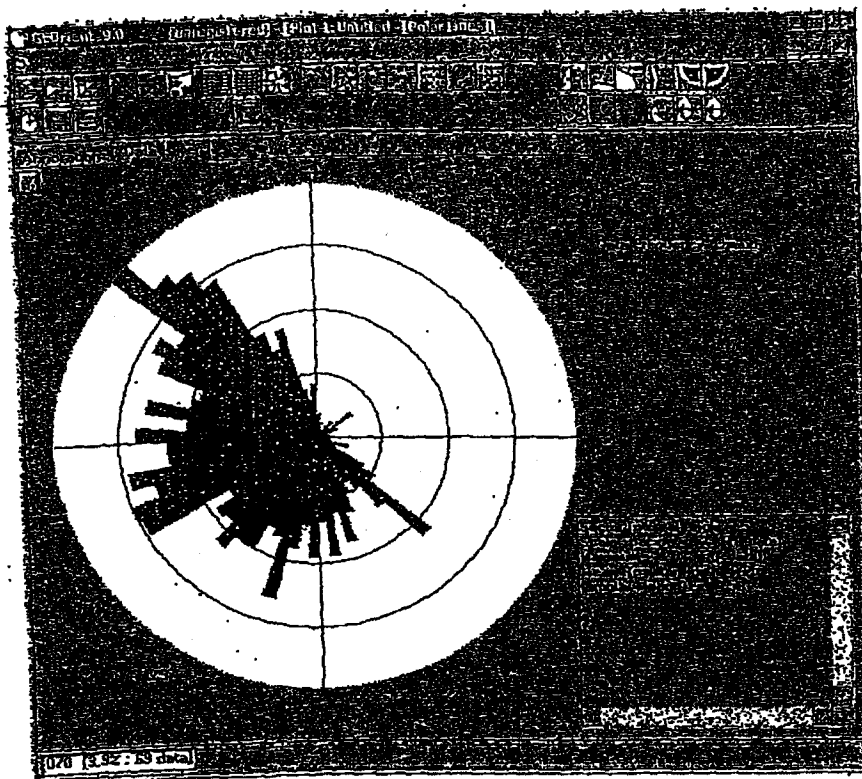
Ile Boddam AWS Data
Overview (period 18/3 to 5/6)

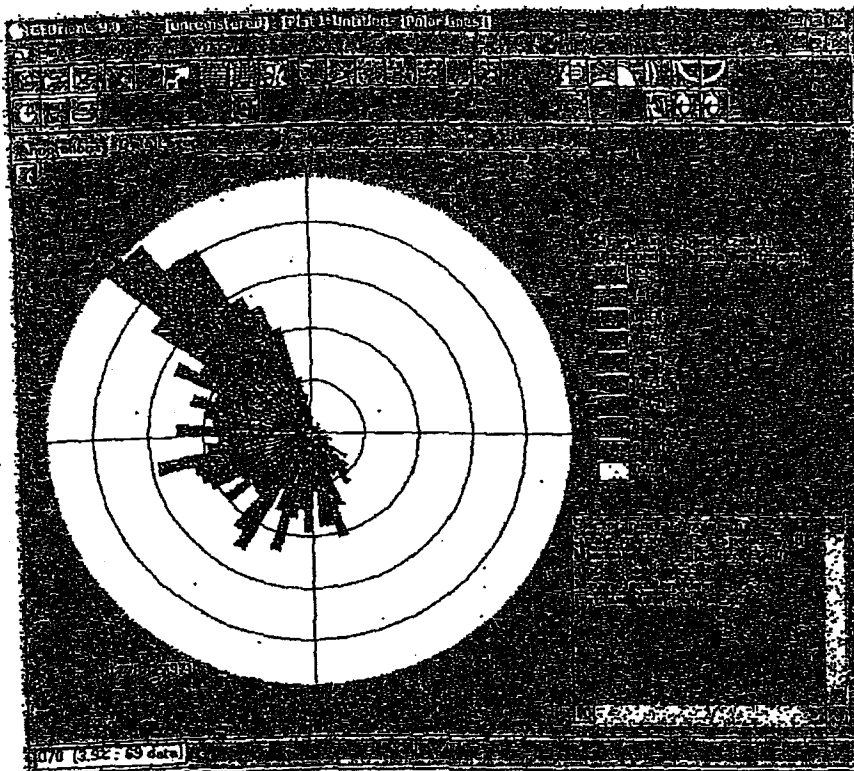
— Soil T degC — Air T degC
— Humid % /5 Solar Rad/100
— Rain mm



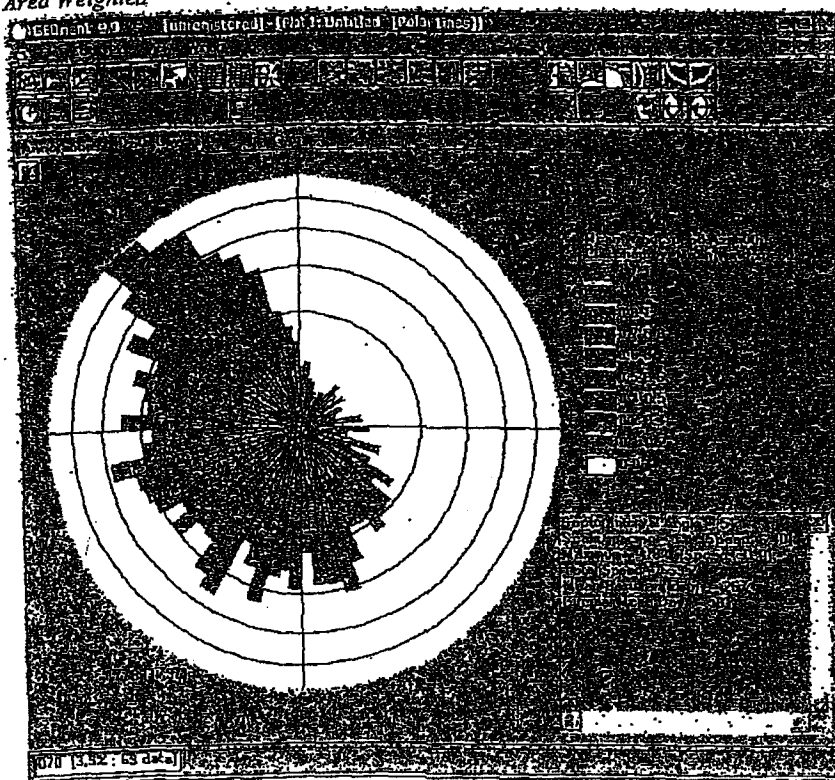
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He Boddam AWS Wind Roses (data 18/3/01 to 5/6/01)

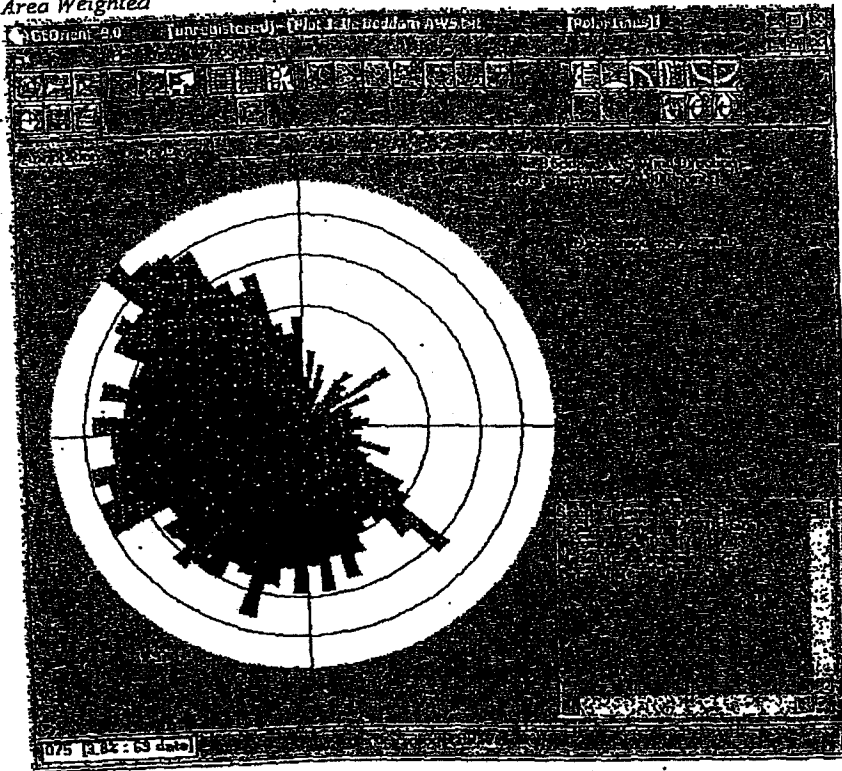




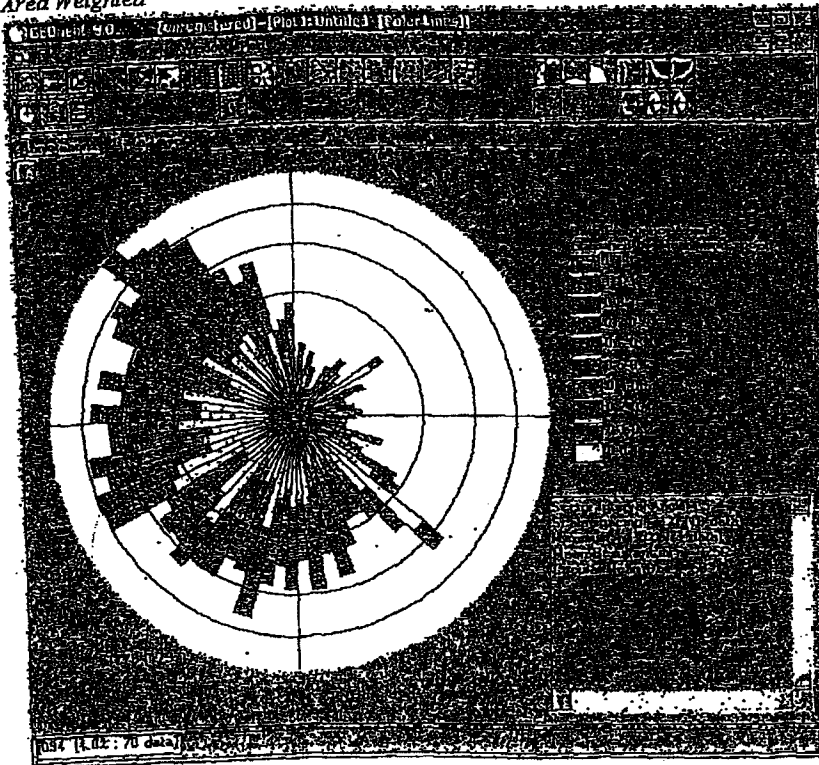
Area Weighted



Area Weighted



Area Weighted



Ile Boddam Danum Mark

Ile du Coin Datum Mark

APPENDIX G LIST OF EQUIPMENT REMAINING IN BIOT (AND LOCATION)

Ile Boddam

- 1 x Automatic Weather Station
- 1 x Tide Gauge unit
- 2 x Water Level unit

Ile du Coin

- 1 x Tide Gauge unit
- 1 x Water Level unit

Diego Garcia

Marines Building (Moody Brook)

- 1 x Aluminium Trunk containing:
 - 1 x Tarpaulin
 - 1 x Tool kit in carry case and hand-saw
 - 1 x Battery powered drill with charger
 - 1 x Water level dipper and cable reel
 - 1 x 'Hanna' Electrical Conductivity meter and cable
 - 1 x Surveyors tripod and level, Garmin 'E Trex' GPS
 - 1 x Stainless steel Bijkelkamp bailer tube
 - 2 x 'Whale' 12V water pumps
 - 1 x plastic borehole sampling bailer tube
 - 1 x 50 m measuring tape and reel
 - Spare silica gel packs and spare enclosure lock nuts
- 3 metre borehole tube
- Cardboard and wood transit box with packing for Automatic Weather Station
- Surveyors 5 metre telescopic measuring staff

Brit Rep Office

- Box containing:
 - 1 x 'Psion' handheld computer and 2 connector cables
 - 1 x Kodak digital camera, case, USB download adaptor, memory card, instructions and software CD
 - File containing equipment specifications, software instructions, downloading instruction and photographs
 - Software disks and CD
 - Security keys for AWS and datalogger enclosures
 - Battery, module and connectors for AWS download
 - 2 x stainless steel memory modules for AWS
 - Update: Sony Vaio Laptop Computer, software and accessories (from June 2000)

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APPENDIX H PROPOSED SUPPLEMENTARY INVESTIGATIONS

Groundwater investigations in the Chagos Islands

Deleted draft of some proposed supplementary investigations