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8. Appendices

8.1. APPENDIX A: PROJECT STAFF

Name	Substantive Role
Dr Andrew Heap	Project Manager/Geomorphologist/Sedimentologist
Anna Potter	Project Scientist/Sedimentologist
Christina Baker	Project Scientist/Sedimentologist (DEWHA funded)
Maggie Tran	Project Scientist/Sedimentologist (DEWHA funded)
Christian Thun	Laboratory Manager
Tony Watson	Senior Laboratory Officer
Alex Mclachlan	Senior Laboratory Officer
Billie Poignand	Laboratory Officer
Keith Henderson	Laboratory Officer
Kylia Wall	Laboratory Officer (DEWHA funded)

8.2. APPENDIX B: MAPPING PARAMETERS

8.2.1. Gravel, Sand, Mud and Carbonate Maps

- data imported to ArcGIS in csv format
- interpolate to raster using:
    i) inverse distance weighted interpolator
    ii) cell size of 0.01 decimal degrees (dd) – about 1 kilometre
    iii) optimal parameters: search radius of 12 points and power parameter of 1 (Ruddick, 2006).
    iv) maximum extrapolation distance of 0.45 dd – about 45 kilometres
    - raster image clipped to Australian Economic Exclusive Zone limit and the National Mapping 1:250,000 coastline from the National GIS.
    - additional clip areas were added where interpolator extrapolation produced
    - artefacts that were not consistent with the surrounding data points.

8.2.2. Seabed Sediment Type – Folk Classification

- rasters for fractions were created as in #.2.1 but with a cell size of 0.05dd.
- rasters were exported as 0.05 dd grids of points
- samples were allocated to one of 15 Folk sediment type classifications based on gravel/sand/mud percentages using pearl script.
- classified data was imported into ArcGIS in .csv format
- point data was converted to raster with folk class number as the cell value

8.2.3. Sediment Texture – Red/Green/Blue Image

- rasters for fractions (#.2.1) were imported into ENVI
- grids were loaded into the bands of a RGB image (Gravel – red, Sand – green, Mud – blue)
- image was saved as a geotiff and imported to ArcGI

8.3. APPENDIX C: EXPLANATION OF TABLE FIELDS

8.3.1. Chapter 4 Tables

E.g. Table 4.1

Feature	Area in NWMR	% total* NWMR Area	% EEZ Area	% Total EEZ area located in NWMR	Water Depth Range** in NWMR (m)

Area in NWMR: Area in km² covered by this feature within the NWMR.

% total* NWMR Area: Percent of the total area of the NWMR (not including areas with water depths <10 m) which is allocated to this feature.

% EEZ Area: Percent of the total area of the EEZ which is allocated to this feature.

% Total EEZ area located in NWMR: The proportion of the EEZ area allocated to this feature that lies within the NWMR.

Water Depth Range in NWMR (m):** Range of water depths occurring in the NWMR area (not including areas with water depths <10m) allocated to this feature. To reduce error, depths were determined from the point data underpinning the bathymetry grid rather than the interpolated data. Values are rounded to the nearest 10 m.

E.g. Table 4.2

PROVINCE/ # Feature	No. sample points	% NWMR Area	Average sample density

PROVINCE/ # Feature: Features are nested within Provinces. Shelf, Slope, Rise and Abyssal Plain/Deep Ocean Floor Provinces are capitalised. Statistics for Provinces include the area of all features occurring within them. Feature names are not capitalised. Shelf, slope, rise and AP/DOF features comprise the area of these provinces with no other features identified within them.

No. sample points: The total number of samples used in this study that are located within the area allocated to this province or feature. Some samples included in this figure have only textural or compositional data.

%NWMR Area: As in Table 4.1.

Average sample density (samples per km²): The average sample density across all occurrences of the feature in the NWMR. This is calculated by dividing the total area of the feature by the number of sample points within it. Results have been rounded to the nearest 100 km².

8.3.2. Chapter 5 Tables

E.g. Table 5.1

Bioregion	No. sample points (no. added for task)	% NWMR Area*	Average sample density (km²)

No. sample points (no. added for task): The number of sample points occurring in the bioregion including both data existing before this task and new assays generated for this task. The number of samples added to this bioregion for this task is given in brackets.
%NWMR Area: Percentage of the total area of the NWMR allocated to this bioregion. Percentages are calculated from the NWMR including the area not assigned to any bioregion.
Average sample density (km²): As for Table 4.2.

E.g. Table 5.2

Feature	% of bioregion area covered	% of NWMR area this unit lies within this bioregion	% of EEZ area this unit lies within this bioregion

% of bioregion area covered: The percentage of the total area of the bioregion that is included in the NWMR that falls within this feature. Calculations do not include areas with water depths <10 m.

% of NWMR area this unit lies within this bioregion: The percentage of the total area covered by this feature in the NWMR that lies within the area of this bioregion included in the NWMR.

% of EEZ area this unit lies within this bioregion: The percentage of the total area covered by this feature in the EEZ that lies within the area of this bioregion included in the NWMR.

E.g. Table 5.3

Feature	Depth Range (m)	Mean Depth (m)

Depth Range (m): Range of water depths occurring in the area of this feature within the bioregion(not including areas with water depths <10 m). To reduce error, depths were determined from the point data underpinning the bathymetry grid rather than the interpolated data. Values are rounded to the nearest 10 m.

Mean Depth (m): The mean water depth occurring in the area of this feature within the bioregion. To reduce error, depths were determined from the point data underpinning the bathymetry grid rather than the interpolated data. Areas with water depths <10 m were removed prior to calculations. Values are rounded to the nearest 10 m.

8.4. APPENDIX D: METADATA

(To be included with GIS files in final report DVD)

8.5. APPENDIX E: DATA GENERATED

See excel workbook "NWMR Task 2007 assays".

8.6. APPENDIX F: LASER GRAINSIZE DISTRIBUTIONS

See pdf file "Appendix F NWMR Laser".

8.7. APPENDIX G: WEB ACESSIBLE DIGITAL MAPS FOR DATA COVERAGE AND SEDIMENT PROPERTIES

(To be included in final report DVD)