

Erosion Prone Area

Mackay Region Local Government Area

Erosion Prone Area Definition

1. Erosion prone areas are deemed to exist over all tidal water to the extent of Queensland Coastal Waters and on all land adjacent to tidal water.
2. Erosion prone areas include areas subject to inundation by the highest astronomical tides (HAT) by the year 2100 or at risk from sea erosion.
3. On land adjacent to tidal water the landward boundary of the erosion prone area shall be defined by whichever of the following methods gives the greater erosion prone area width:
 - a. a line measured 40 metres landward of the plan position of the present day HAT level except where approved revetments exist in which case the line is measured 10 metres landward of the upper seaward edge of the revetment, irrespective of the presence of outcropping bedrock;
 - b. a line located by the linear distance shown on Table 1 and measured, unless specified otherwise, inland from:
 - i. the seaward toe of the frontal dune (the seaward toe of the frontal dune is normally approximated by the seaward limit of terrestrial vegetation or, where this cannot be determined, the level of present day HAT); or
 - ii. a straight line drawn across the mouth of a waterway between the alignment of the seaward toe of the frontal dune on either side of the mouth
 - c. the plan position of the level of HAT plus 0.8 m vertical elevation.

Except:

- i. where the linear distance specified in 3b is less than 40 metres, in which case section 3a. does not apply and the erosion prone area width will be the greater of 3b and 3c; or
 - ii. where outcropping bedrock is present and no approved revetments exist, in which case the line is defined as being coincident with the most seaward bedrock outcrop at the plan position of present day HAT plus 0.8m; or
 - iii. in approved canals in which case the line of present day HAT applies, irrespective of the presence of approved revetments or outcropping bedrock.
4. Erosion prone areas defined in accordance with the above are deemed to exist throughout all the local government areas, irrespective of whether the entire local government area is depicted on erosion prone area plans for the area.

Notes to clarify the definition

1. The specific location along the coast to which each erosion prone area linear distance applies (a segment) is shown in Table 1.
2. A map indicating the approximate location along the coast of each linear distance segment is attached.
3. Each erosion prone area segment is located on the coastline between 2 points defined by latitude and longitude. A projection of each point to the nearest actual coastline and continuing inland perpendicular to the coast defines the erosion prone area segment.
4. "Present day HAT" in the definition is always taken to be the present day level of HAT for the coastline as defined in the Queensland Tide Tables for that year or as defined by empirical methodology at the site.
5. The extent of the erosion prone area where it is defined by "HAT plus 0.8m" is the HAT coastline at the year 2100 and includes sea level rise to that time. It is determined by the area of land inundated to the level HAT of the nearest adjacent open coast or river tide gauge plus 0.8m vertical elevation. Site based HAT is not to be used as present day attenuation of inland HAT level due to flow constraints may not persist to 2100 with coastline response to sea level rise. For further explanation see the Coastal Hazard Technical Guide.
6. Where noted on Table 1 (and the map) the specified linear distance applies except where a revetment has been constructed and maintained to the approved design in which case the landward boundary of the erosion prone area is at the upper seaward edge of the revetment (A-line).
7. The approximate erosion prone area footprint is shown on Coastal Hazard Area Maps available on the Department of Environment and Heritage Protection website at www.ehp.qld.gov.au. These footprints are indicative only and the definition in this plan prevails for any inconsistency between the two.
8. This erosion prone area plan may be updated from time to time and a new revision created. Please check with the Department of Environment and Heritage Protection or the local government that this copy is the current version prior to using the contained information in any way.

Date of Erosion Prone Area Declaration: 8 July 2015

Date of Erosion Prone Area Amendment:

**Plan No:
MAR3A**

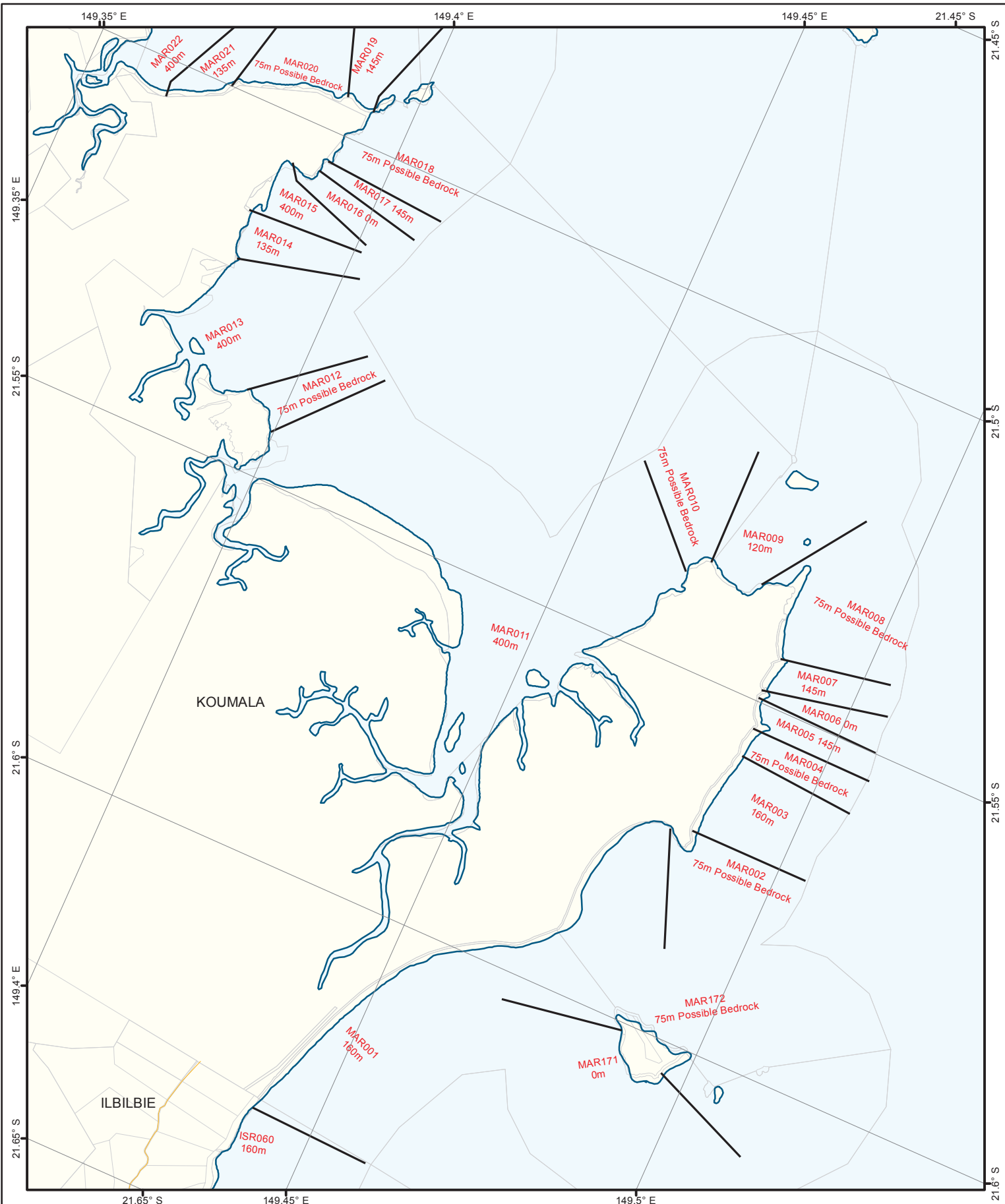
MAR3A Table 1: Linear distances for the erosion prone area and the specific location of each segment

Erosion prone area segment number	Segment start longitude (degrees)	Segment start latitude (degrees)	Segment end longitude (degrees)	Segment end latitude (degrees)	Erosion prone area linear distance (Width in metres)
MAR001	149.43999	-21.63283	149.48190	-21.57182	160m
MAR002	149.48190	-21.57182	149.48514	-21.57085	75m Possible Bedrock
MAR003	149.48514	-21.57085	149.48751	-21.55811	160m
MAR004	149.48751	-21.55811	149.48734	-21.55386	75m Possible Bedrock
MAR005	149.48734	-21.55386	149.48615	-21.54953	145m
MAR006	149.48615	-21.54953	149.48605	-21.54833	0m
MAR007	149.48605	-21.54833	149.48680	-21.54314	145m
MAR008	149.48680	-21.54314	149.47936	-21.53451	75m Possible Bedrock
MAR009	149.47936	-21.53451	149.47079	-21.53450	120m
MAR010	149.47079	-21.53450	149.46772	-21.53724	75m Possible Bedrock
MAR011	149.46772	-21.53724	149.39956	-21.54315	400m
MAR012	149.39956	-21.54315	149.39348	-21.53898	75m Possible Bedrock
MAR013	149.39348	-21.53898	149.38371	-21.52234	400m
MAR014	149.38371	-21.52234	149.38234	-21.51526	135m
MAR015	149.38234	-21.51526	149.38555	-21.50653	400m
MAR016	149.38555	-21.50653	149.38987	-21.50601	0m
MAR017	149.38987	-21.50601	149.39055	-21.50429	145m
MAR018	149.39055	-21.50429	149.39386	-21.49522	75m Possible Bedrock
MAR019	149.39386	-21.49522	149.38928	-21.49474	145m
MAR020	149.38928	-21.49474	149.37193	-21.50007	75m Possible Bedrock
MAR021	149.37193	-21.50007	149.36327	-21.50525	135m
MAR022	149.35617	-21.49715	149.36327	-21.50525	400m
MAR023	149.35617	-21.49715	149.35277	-21.49176	135m
MAR024	149.35277	-21.49176	149.35346	-21.49027	75m Possible Bedrock
MAR025	149.35346	-21.49027	149.34553	-21.48108	160m
MAR026	149.34553	-21.48108	149.33661	-21.47629	75m Possible Bedrock
MAR027	149.33661	-21.47629	149.29200	-21.47359	400m
MAR028	149.29200	-21.47359	149.29376	-21.46825	75m Possible Bedrock
MAR029	149.29376	-21.46825	149.28942	-21.46664	120m
MAR030	149.28942	-21.46664	149.28902	-21.46525	75m Possible Bedrock
MAR031	149.28902	-21.46525	149.29075	-21.45894	120m
MAR032	149.29075	-21.45894	149.31378	-21.42461	140m
MAR033	149.31378	-21.42461	149.32524	-21.42477	120m
MAR034	149.32524	-21.42477	149.33661	-21.42716	75m Possible Bedrock
MAR035	149.33661	-21.42716	149.33578	-21.42320	140m
MAR036	149.33578	-21.42320	149.33327	-21.41783	75m Possible Bedrock
MAR037	149.33327	-21.41783	149.33217	-21.41444	145m
MAR038	149.33217	-21.41444	149.32660	-21.41220	75m Possible Bedrock
MAR039	149.32660	-21.41220	149.32149	-21.41515	145m
MAR040	149.32149	-21.41515	149.31633	-21.41277	75m Possible Bedrock
MAR041	149.31633	-21.41277	149.30623	-21.41109	145m
MAR042	149.30623	-21.41109	149.29898	-21.39870	400m
MAR043	149.29898	-21.39870	149.30185	-21.39858	0m

MAR044	149.30185	-21.39858	149.31238	-21.39301	115m
MAR045	149.31238	-21.39301	149.31370	-21.39534	75m Possible Bedrock
MAR046	149.31370	-21.39534	149.31327	-21.39068	0m
MAR047	149.31327	-21.39068	149.31775	-21.37227	155m
MAR048	149.31775	-21.37227	149.31314	-21.37318	0m
MAR049	149.31314	-21.37318	149.30997	-21.37123	400m
MAR050	149.30997	-21.37123	149.31362	-21.35936	140m
MAR051	149.31362	-21.35936	149.31293	-21.35335	75m Possible Bedrock
MAR052	149.31293	-21.35335	149.30852	-21.35110	145m
MAR053	149.30852	-21.35110	149.29929	-21.34317	75m Possible Bedrock
MAR054	149.29929	-21.34317	149.29833	-21.33629	145m
MAR055	149.29833	-21.33629	149.29671	-21.32957	75m Possible Bedrock
MAR056	149.29671	-21.32957	149.29445	-21.32412	145m
MAR057	149.29445	-21.32412	149.29391	-21.31935	400m
MAR058	149.29391	-21.31935	149.29406	-21.30139	150m
MAR059	149.29406	-21.30139	149.29302	-21.29903	75m Possible Bedrock
MAR060	149.29302	-21.29903	149.29337	-21.29565	145m
MAR061	149.29337	-21.29565	149.29468	-21.29319	75m Possible Bedrock
MAR062	149.29468	-21.29319	149.29654	-21.27520	150m
MAR063	149.29654	-21.27520	149.27646	-21.27917	75m Possible Bedrock
MAR064	149.27646	-21.27917	149.26581	-21.27210	140m
MAR065	149.26581	-21.27210	149.26655	-21.27040	400m
MAR066	149.26655	-21.27040	149.26014	-21.26310	75m Possible Bedrock
MAR067	149.26014	-21.26310	149.25654	-21.24664	155m
MAR068	149.25654	-21.24664	149.25303	-21.24615	75m Possible Bedrock
MAR069	149.25303	-21.24615	149.23427	-21.25761	130m
MAR070	149.23427	-21.25761	149.20359	-21.25762	400m
MAR071	149.20359	-21.25762	149.20822	-21.24699	140m
MAR072	149.20822	-21.24699	149.18295	-21.21461	400m
MAR073	149.18295	-21.21461	149.19449	-21.20429	Width of spit
MAR074	149.19449	-21.20429	149.19258	-21.18569	135m
MAR075	149.19258	-21.18569	149.19312	-21.18114	400m
MAR076	149.19312	-21.18113	149.19342	-21.18019	Trans 400m to 170m
MAR077	149.19342	-21.18019	149.19635	-21.16836	170m
MAR078	149.19635	-21.16836	149.20192	-21.15648	145m
MAR079	149.20192	-21.15648	149.20356	-21.15290	65m
MAR080	149.20356	-21.15290	149.21449	-21.14269	80m
MAR081	149.22020	-21.14710	149.22125	-21.12383	90m
MAR082	149.22125	-21.12383	149.22365	-21.11530	Trans 90m to 30m
MAR083	149.22499	-21.10168	149.22539	-21.09298	Trans 160m to 35m
MAR084	149.22539	-21.09298	149.22855	-21.07914	160m
MAR085	149.22855	-21.07914	149.22841	-21.07207	130m
MAR086	149.22841	-21.07207	149.22772	-21.06960	0m
MAR087	149.22772	-21.06960	149.22619	-21.06793	110m Possible Bedrock
MAR088	149.22619	-21.06793	149.22344	-21.06485	0m
MAR089	149.22344	-21.06485	149.21180	-21.07596	70m Possible Bedrock
MAR090	149.21176	-21.07601	149.20410	-21.07106	400m
MAR091	149.20410	-21.07106	149.19630	-21.06038	90m
MAR092	149.19630	-21.06038	149.18850	-21.04380	200m
MAR093	149.18850	-21.04380	149.18802	-21.04282	0m
MAR094	149.18802	-21.04282	149.18734	-21.03898	55m Possible Bedrock
MAR095	149.18734	-21.03898	149.18690	-21.03822	0m

MAR096	149.18690	-21.03822	149.18466	-21.03381	55m Possible Bedrock
MAR097	149.18466	-21.03381	149.18144	-21.03569	60m Possible Bedrock
MAR098	149.18144	-21.03569	149.18123	-21.03588	Trans 60m to 20m
MAR099	149.18123	-21.03588	149.18053	-21.03631	20m
MAR100	149.18053	-21.03631	149.18005	-21.03545	Trans 170m to 20m
MAR101	149.18005	-21.03545	149.17662	-21.03275	170m
MAR102	149.17662	-21.03275	149.17465	-21.03316	0m
MAR103	149.17465	-21.03316	149.17387	-21.03760	Trans 400m to 0m
MAR104	149.17387	-21.03760	149.16953	-21.03667	400m
MAR105	149.16953	-21.03667	149.15921	-21.02447	180m
MAR106	149.15921	-21.02447	149.15800	-21.00130	105m
MAR107	149.15800	-21.00130	149.15736	-21.00053	0m
MAR108	149.15736	-21.00053	149.15362	-21.00234	75m Possible Bedrock
MAR109	149.15362	-21.00234	149.13867	-20.99973	140m
MAR110	149.13867	-20.99973	149.03041	-20.95983	400m
MAR111	149.03041	-20.95983	149.03143	-20.95822	0m
MAR112	149.03143	-20.95822	149.02896	-20.95314	110m
MAR113	149.02896	-20.95314	149.02817	-20.95179	75m Possible Bedrock
MAR114	149.02817	-20.95179	149.02622	-20.94673	125m
MAR115	149.02622	-20.94673	149.02439	-20.94435	75m Possible Bedrock
MAR116	149.02439	-20.94435	149.01779	-20.94182	140m
MAR117	149.01779	-20.94182	149.01744	-20.93212	400m
MAR118	149.01744	-20.93212	149.02714	-20.92470	75m Possible Bedrock
MAR119	149.02714	-20.92470	149.04171	-20.92822	40m on HAT
MAR120	149.04171	-20.92822	149.05430	-20.92619	0m
MAR121	149.05430	-20.92619	149.04616	-20.91976	140m
MAR122	149.04616	-20.91976	149.04566	-20.91775	0m
MAR123	149.04566	-20.91775	149.04510	-20.91019	145m
MAR124	149.04510	-20.91019	149.02414	-20.90134	0m
MAR125	149.02414	-20.90134	149.01947	-20.91158	75m Possible Bedrock
MAR126	149.01947	-20.91158	149.00960	-20.91260	120m
MAR127	149.00960	-20.91260	149.00254	-20.91049	400m
MAR128	149.00254	-20.91049	148.99661	-20.89983	160m
MAR129	148.99661	-20.89983	148.99699	-20.89849	0m
MAR130	148.99699	-20.89849	148.99796	-20.89579	75m Possible Bedrock
MAR131	148.99796	-20.89579	148.99424	-20.89378	0m
MAR132	148.99424	-20.89378	148.98853	-20.89297	145m Possible Bedrock
MAR133	148.98853	-20.89297	148.98260	-20.89464	0m
MAR134	148.98260	-20.89464	148.97821	-20.90226	400m
MAR135	148.97821	-20.90226	148.96852	-20.90007	135m
MAR136	148.96852	-20.90007	148.95556	-20.87938	160m
MAR137	148.95556	-20.87938	148.95388	-20.87802	0m
MAR138	148.95388	-20.87802	148.94431	-20.88240	75m Possible Bedrock
MAR139	148.94431	-20.88240	148.84488	-20.84194	400m
MAR140	148.84488	-20.84194	148.83973	-20.83108	130m
MAR141	148.83973	-20.83108	148.82983	-20.82251	75m Possible Bedrock
MAR142	148.82983	-20.82251	148.83475	-20.79085	400m
MAR143	148.83475	-20.79085	148.84061	-20.79116	75m Possible Bedrock
MAR144	148.84061	-20.79116	148.83124	-20.77920	160m
MAR145	148.83124	-20.77920	148.80694	-20.77690	75m Possible Bedrock
MAR146	148.80694	-20.77690	148.79529	-20.76863	140m
MAR147	148.79529	-20.76863	148.79226	-20.76812	0m

MAR148	148.79226	-20.76812	148.78990	-20.76404	125m
MAR149	148.78990	-20.76404	148.78790	-20.76344	0m
MAR150	148.78790	-20.76344	148.78120	-20.76335	75m Possible Bedrock
MAR151	148.78120	-20.76335	148.77778	-20.73665	130m
MAR152	148.77778	-20.73665	148.77283	-20.73249	75m Possible Bedrock
MAR153	148.77283	-20.73249	148.76484	-20.73276	400m
MAR154	148.76484	-20.73276	148.75892	-20.72471	135m
MAR155	148.75892	-20.72471	148.73403	-20.71687	75m Possible Bedrock
MAR156	148.73403	-20.71687	148.72980	-20.71497	400m
MAR157	148.72980	-20.71497	148.73053	-20.69953	130m
MAR158	148.73053	-20.69953	148.73281	-20.68906	155m
MAR159	148.73281	-20.68906	148.72495	-20.68693	75m Possible Bedrock
MAR160	148.72495	-20.68693	148.72254	-20.68085	130m
MAR161	148.72254	-20.68085	148.71127	-20.67511	75m Possible Bedrock
MAR162	148.71127	-20.67511	148.71027	-20.66515	400m
MAR163	148.71027	-20.66515	148.71455	-20.66131	0m
MAR164	148.71455	-20.66131	148.72546	-20.64645	140m
MAR165	148.72546	-20.64645	148.72108	-20.63283	75m Possible Bedrock
MAR166	148.72108	-20.63283	148.69888	-20.63880	40m
MAR167	148.69888	-20.63880	148.66317	-20.58780	130m
MAR168	148.66317	-20.58780	148.66361	-20.58374	400m
MAR169	148.66361	-20.58374	148.66695	-20.57546	140m
MAR170	148.66695	-20.57546	148.67232	-20.57102	400m
MAR171	149.49615	-21.60443	149.48779	-21.60111	0m
MAR172	149.48779	-21.60111	149.49615	-21.60443	75m Possible Bedrock
MAR173	149.32354	-21.32157	149.32354	-21.32157	75m Possible Bedrock
MAR174	148.93751	-20.85282	148.93751	-20.85282	75m Possible Bedrock
MAR175	148.92766	-20.85469	148.92766	-20.85469	75m Possible Bedrock
MAR176	148.90380	-20.82804	148.91275	-20.84946	75m Possible Bedrock
MAR177	148.90724	-20.83464	148.90380	-20.82804	145m
MAR178	148.90662	-20.83691	148.90724	-20.83464	0m
MAR179	148.90606	-20.83960	148.90662	-20.83691	145m
MAR180	148.90730	-20.84135	148.90606	-20.83960	0m
MAR181	148.91275	-20.84946	148.90730	-20.84135	145m



Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

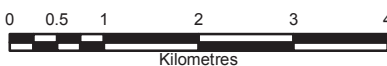
MAR3A Map 1

Note:
This map is a representation of the erosion prone area segment locations provided in Table 1 and should be used as a guide only.

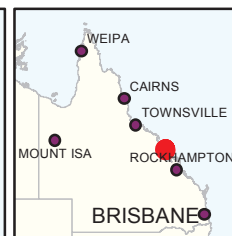
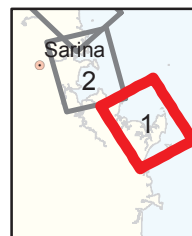
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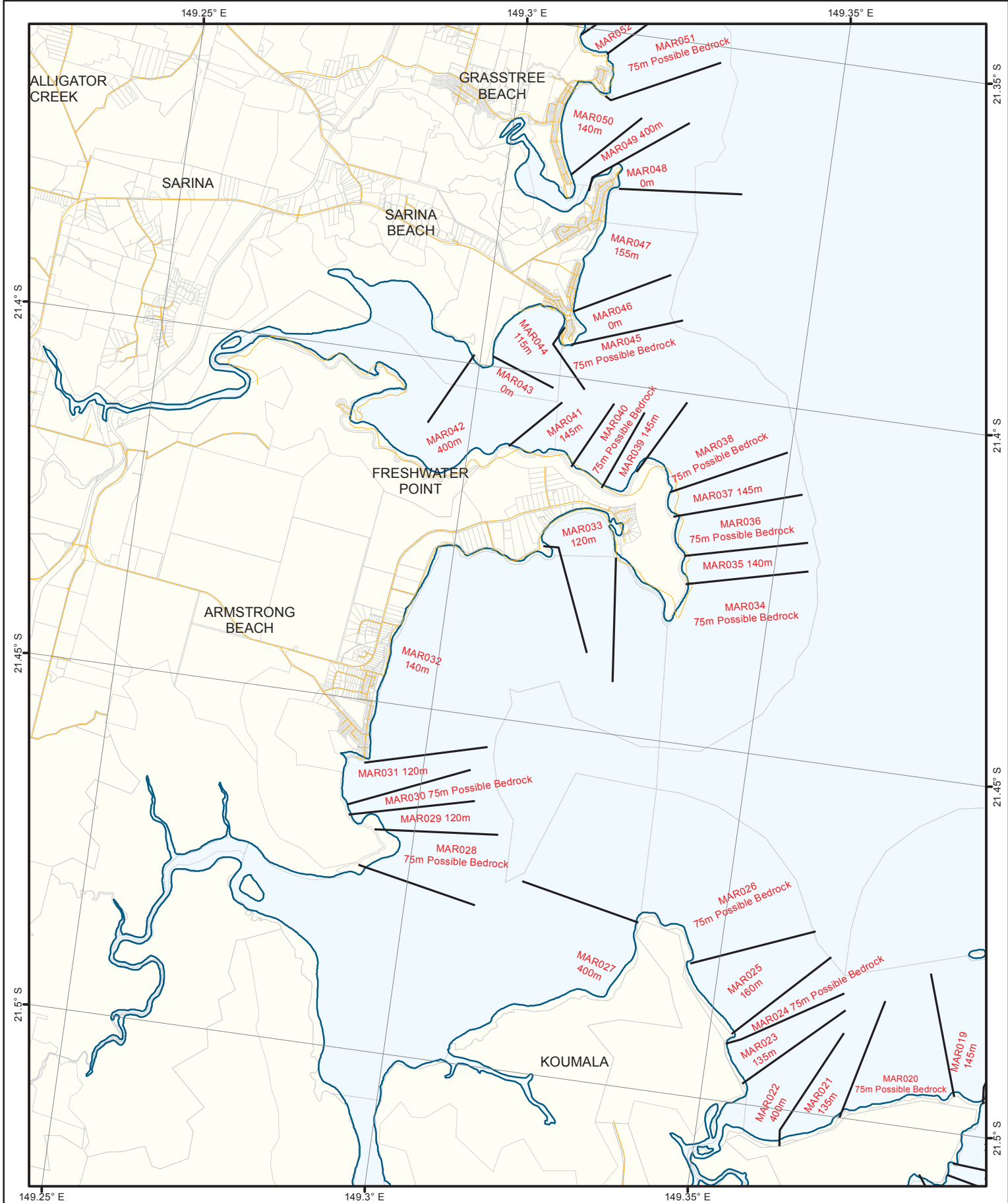
MaR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



Projection: Albers. Datum: GDA 1994.





Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

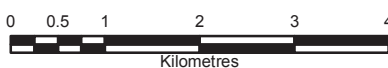
MAR3A Map 2

Note:
This map is a representation of the erosion prone area segment locations provided in Table 1 and should be used as a guide only.

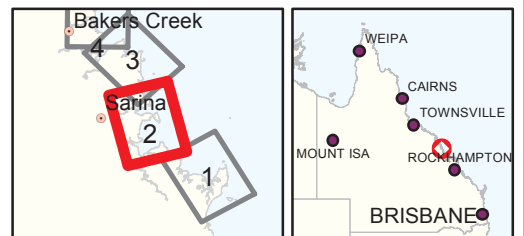
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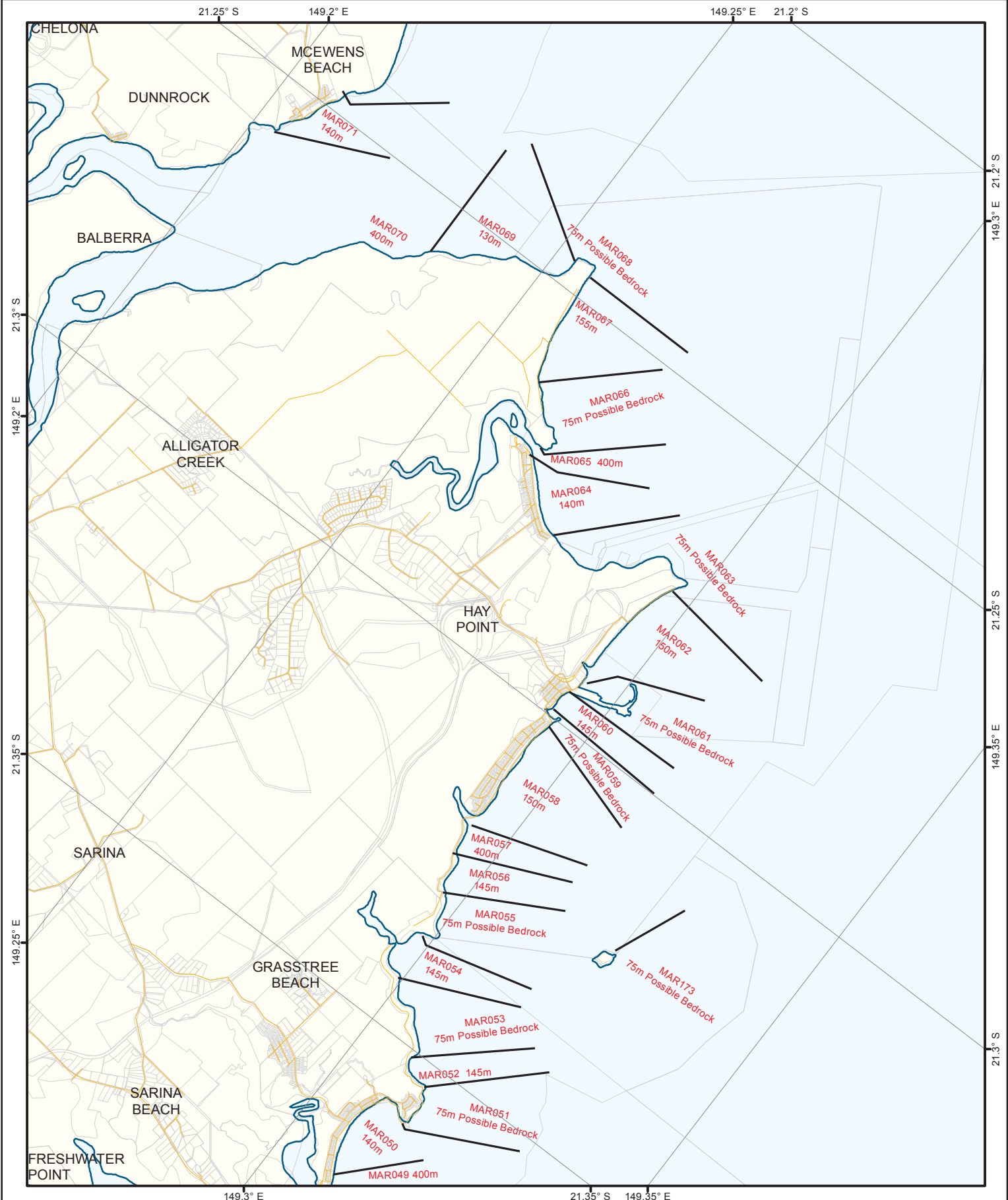
MaR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



Projection: Albers. Datum: GDA 1994.





Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

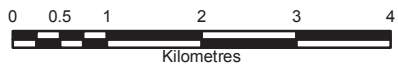
MAR3A Map 3

Note:
This map is a representation of the erosion prone area segment locations provided in Table 1 and should be used as a guide only.

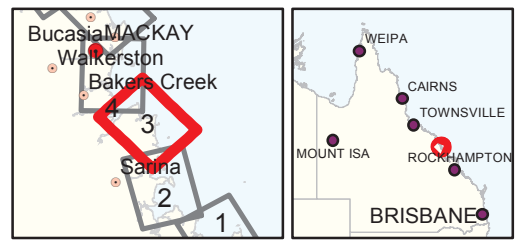
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MaR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



Projection: Albers. Datum: GDA 1994.



149.15° E

149.2° E

149.25° E

21.1° S

21.15° S

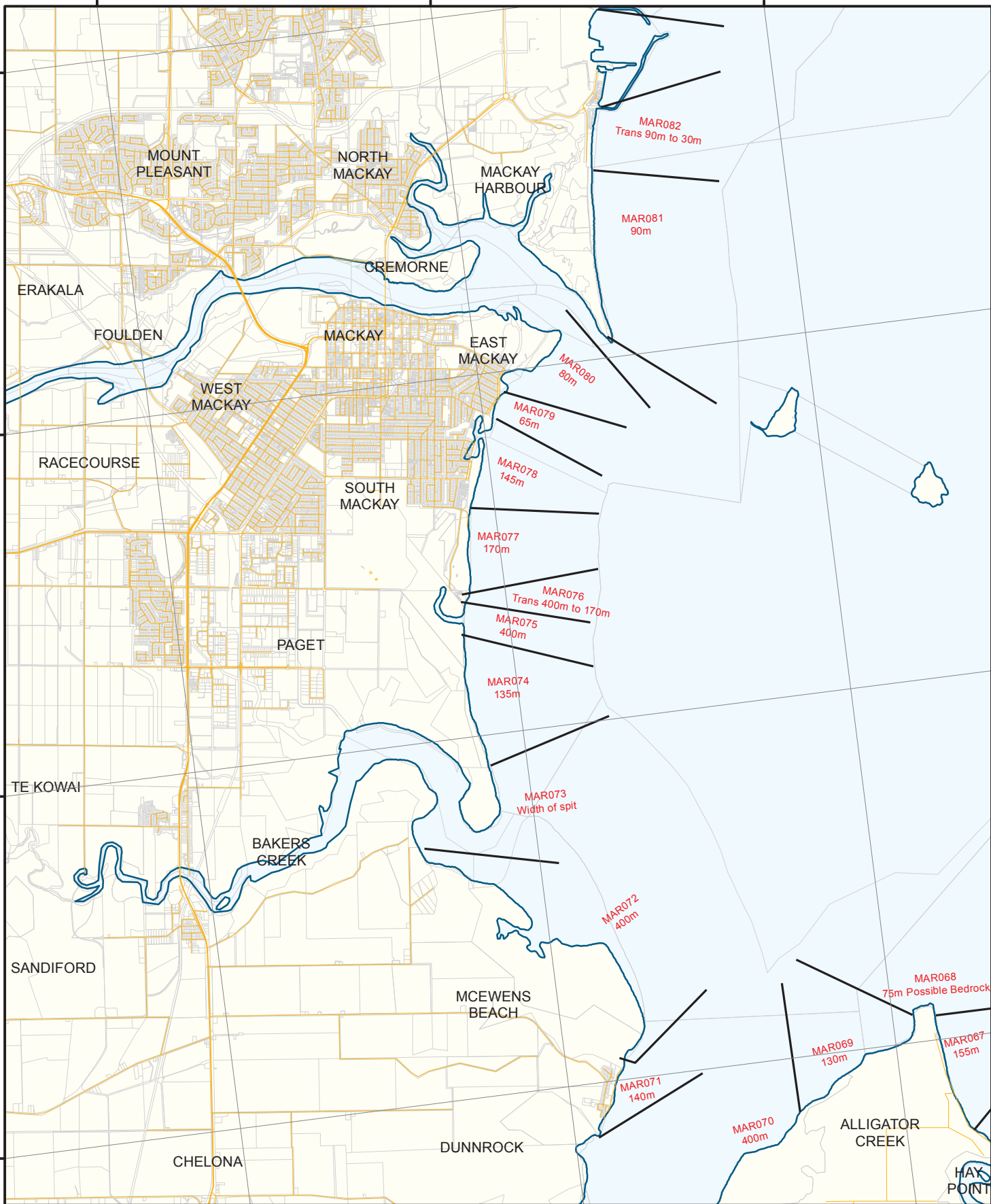
21.2° S

21.25° S

21.15° S

21.2° S

21.25° S



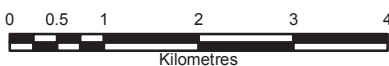
Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

Note:
This map is a representation of the erosion prone area segment locations provided in Table 1 and should be used as a guide only.

Disclaimer:
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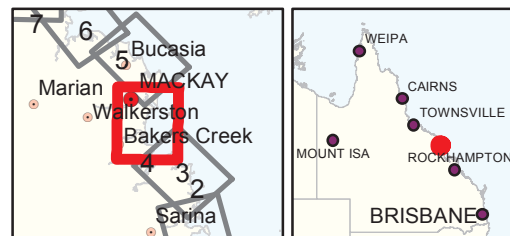
MaR006 Segment number and linear distance for erosion prone area

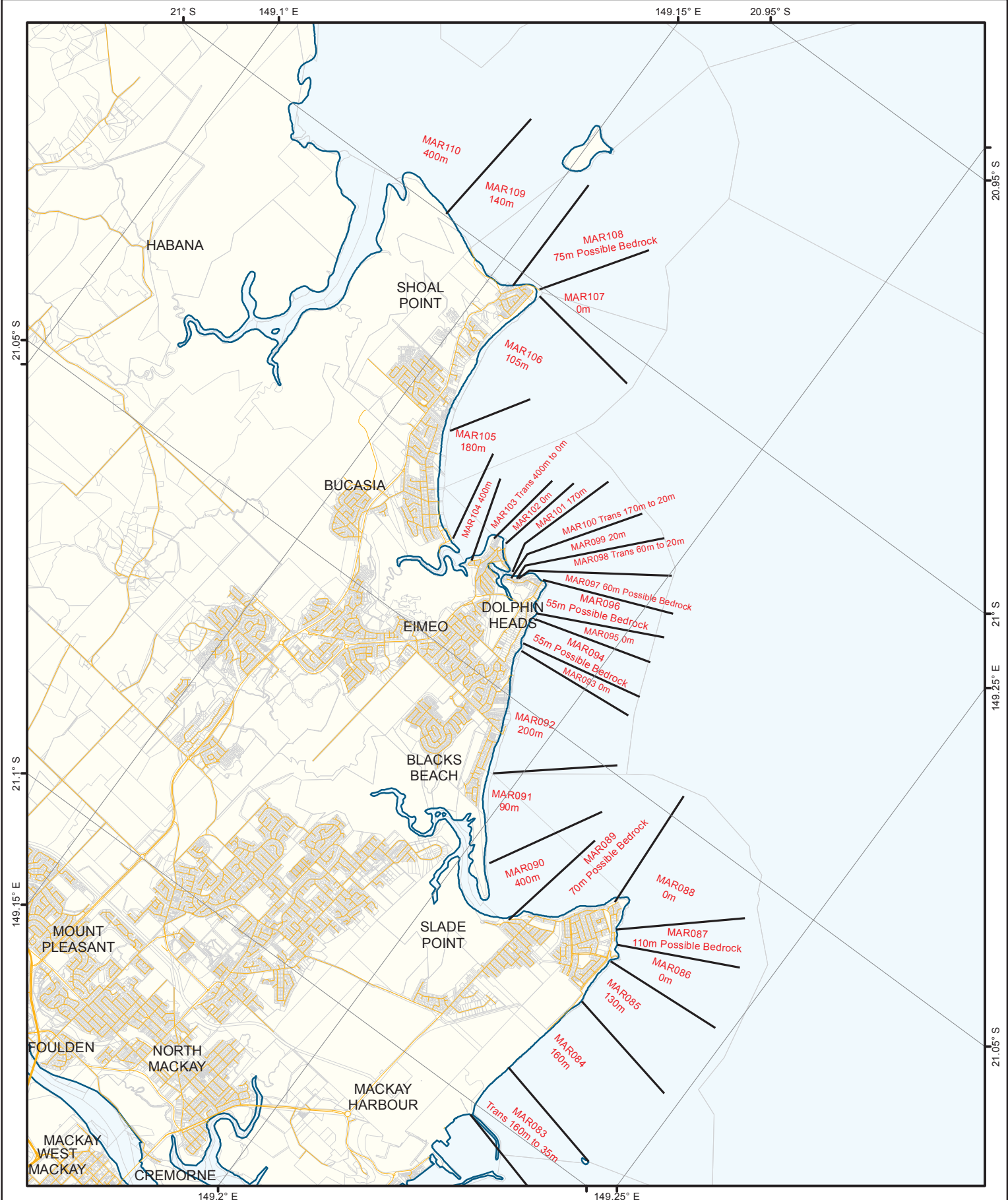
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



MAR3A Map 4

Projection: Albers. Datum: GDA 1994.





Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

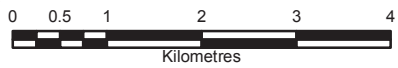
MAR3A Map 5

Note:
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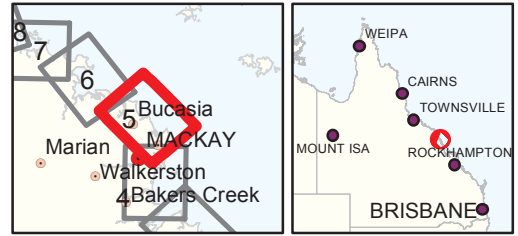
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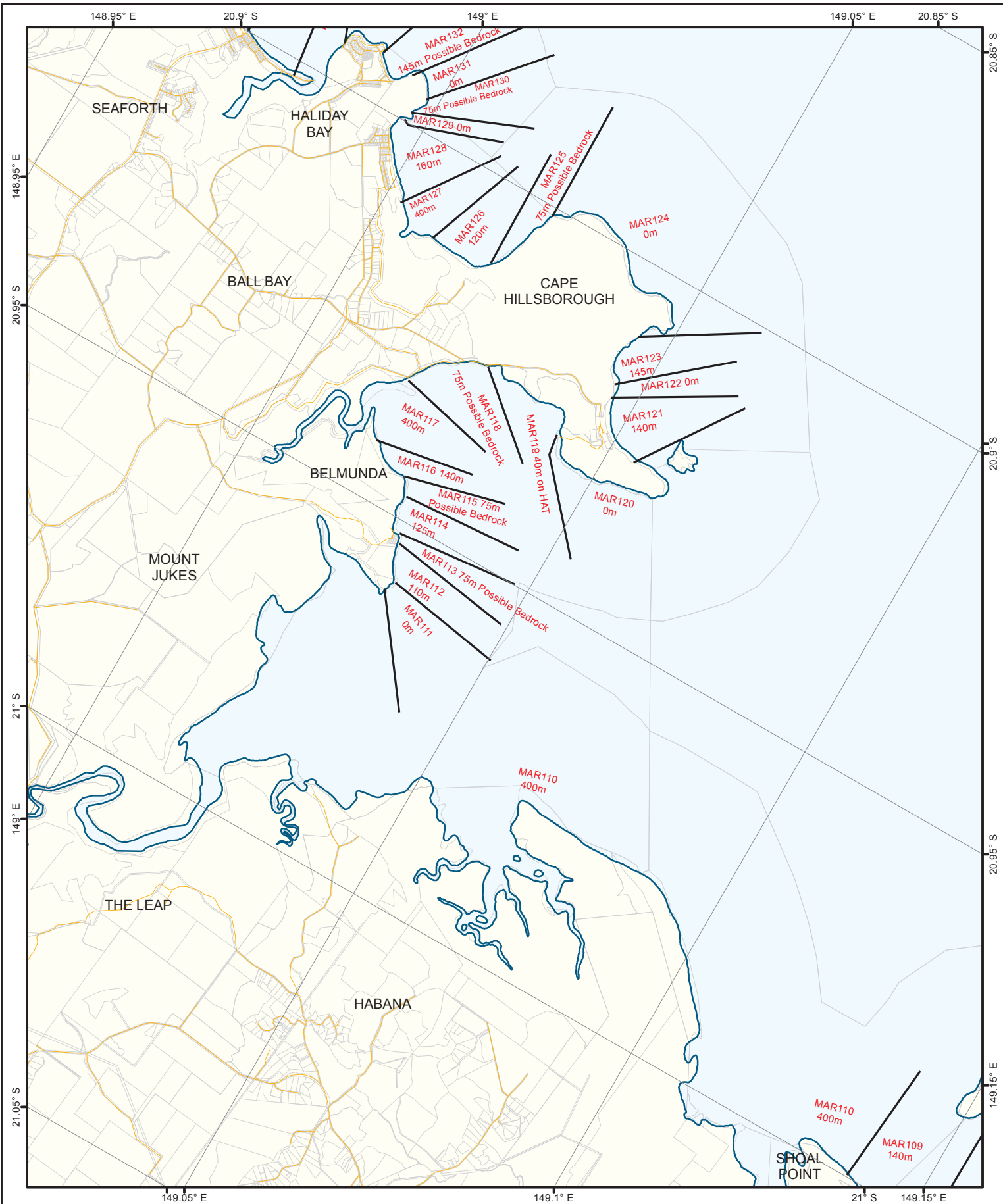
MaR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



Projection: Albers. Datum: GDA 1994.





Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

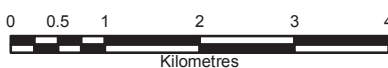
MAR3A Map 6

Note:
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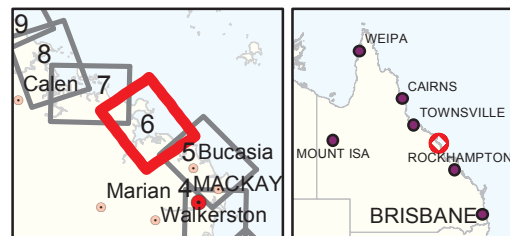
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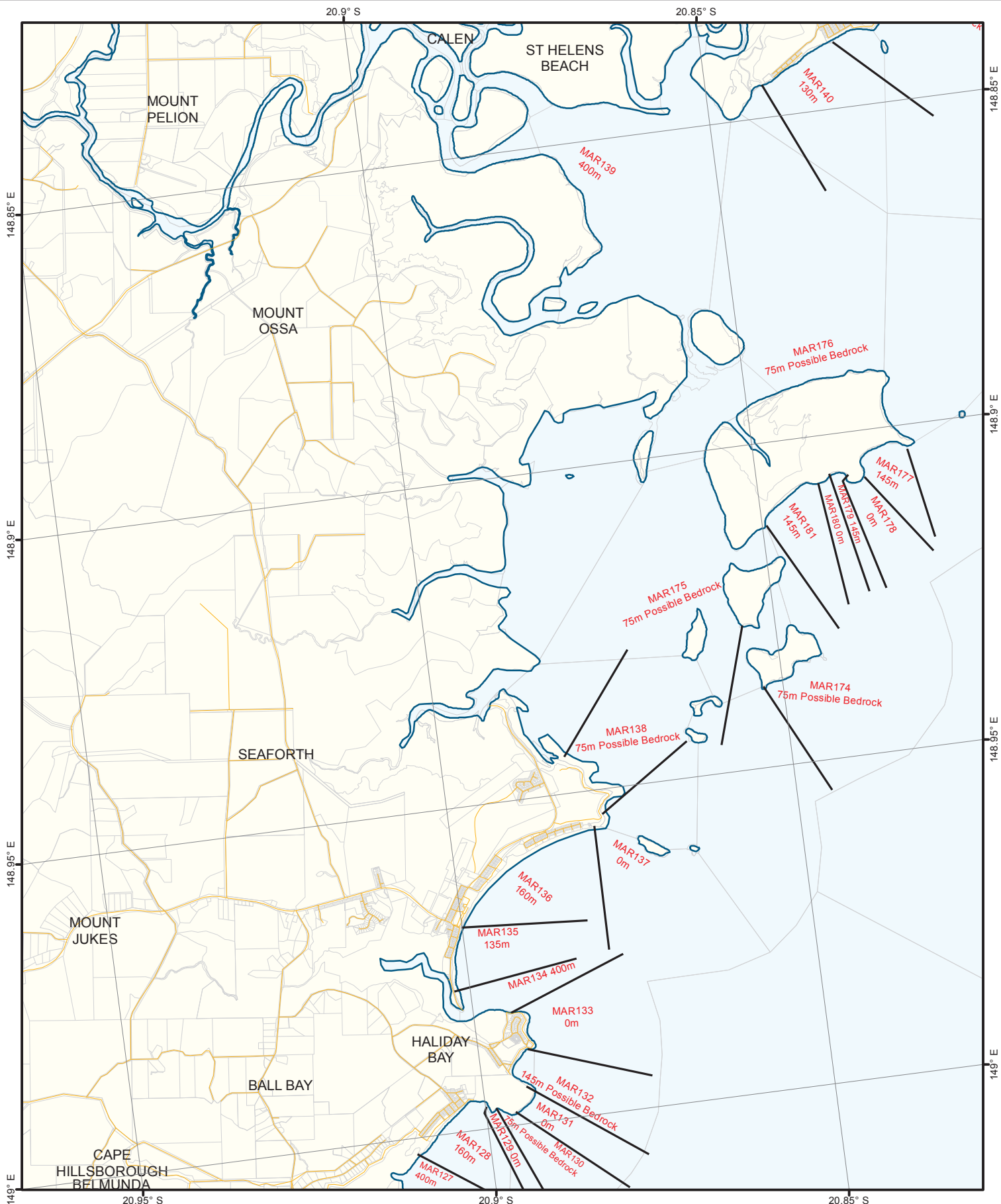
MaR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



Projection: Albers. Datum: GDA 1994.





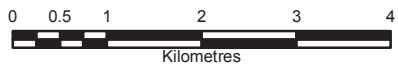
Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

Note:
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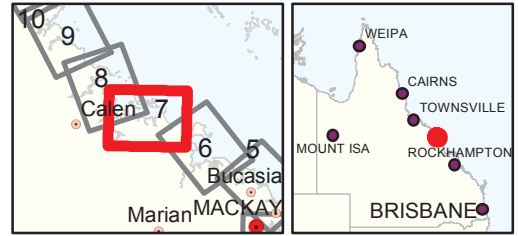
MaR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



MAR3A Map 7

Projection: Albers. Datum: GDA 1994.



148.75° E

148.8° E

148.85° E

20.8° S

20.85° S

20.9° S

20.75° S

20.8° S

20.85° S

MENTMORE

PINDI
PINDI

ST HELENS
BEACH

CALEN

MOUNT
PELION

MOUNT
OSSA

SEAFORTH

MAR151
130m

MAR150
75m Possible Bedrock

MAR149
0m

MAR148
125m

MAR147
0m

MAR146
140m

MAR145
75m Possible Bedrock

MAR144
160m

MAR143
75m Possible Bedrock

MAR142
400m

MAR141
75m Possible Bedrock

MAR140
130m

MAR139
400m

MAR176
75m Possible Bedrock

148.8° E

148.85° E

148.9° E

Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

MAR3A Map 8

Note:
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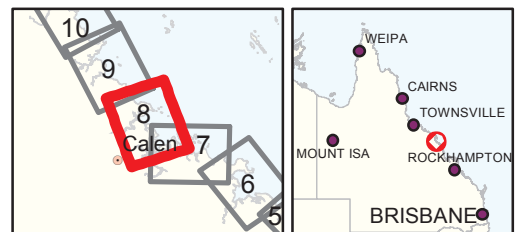
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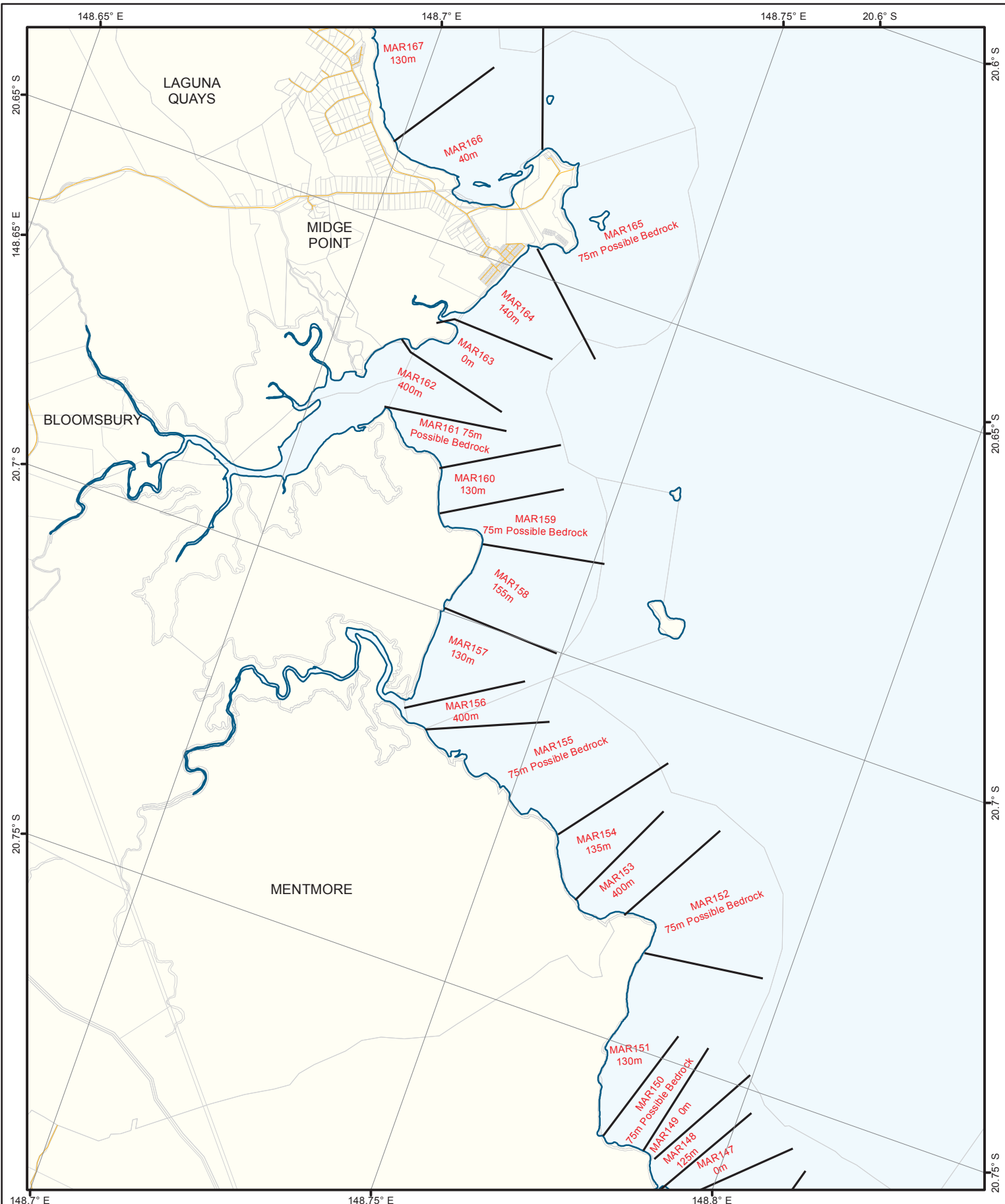
MaR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



Projection: Albers. Datum: GDA 1994.





Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

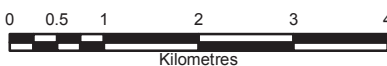
MAR3A Map 9

Note:
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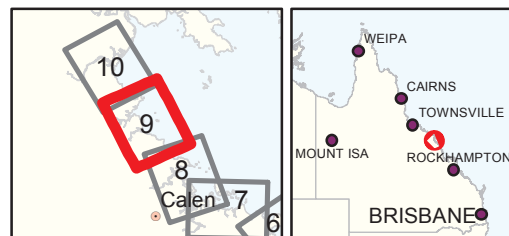
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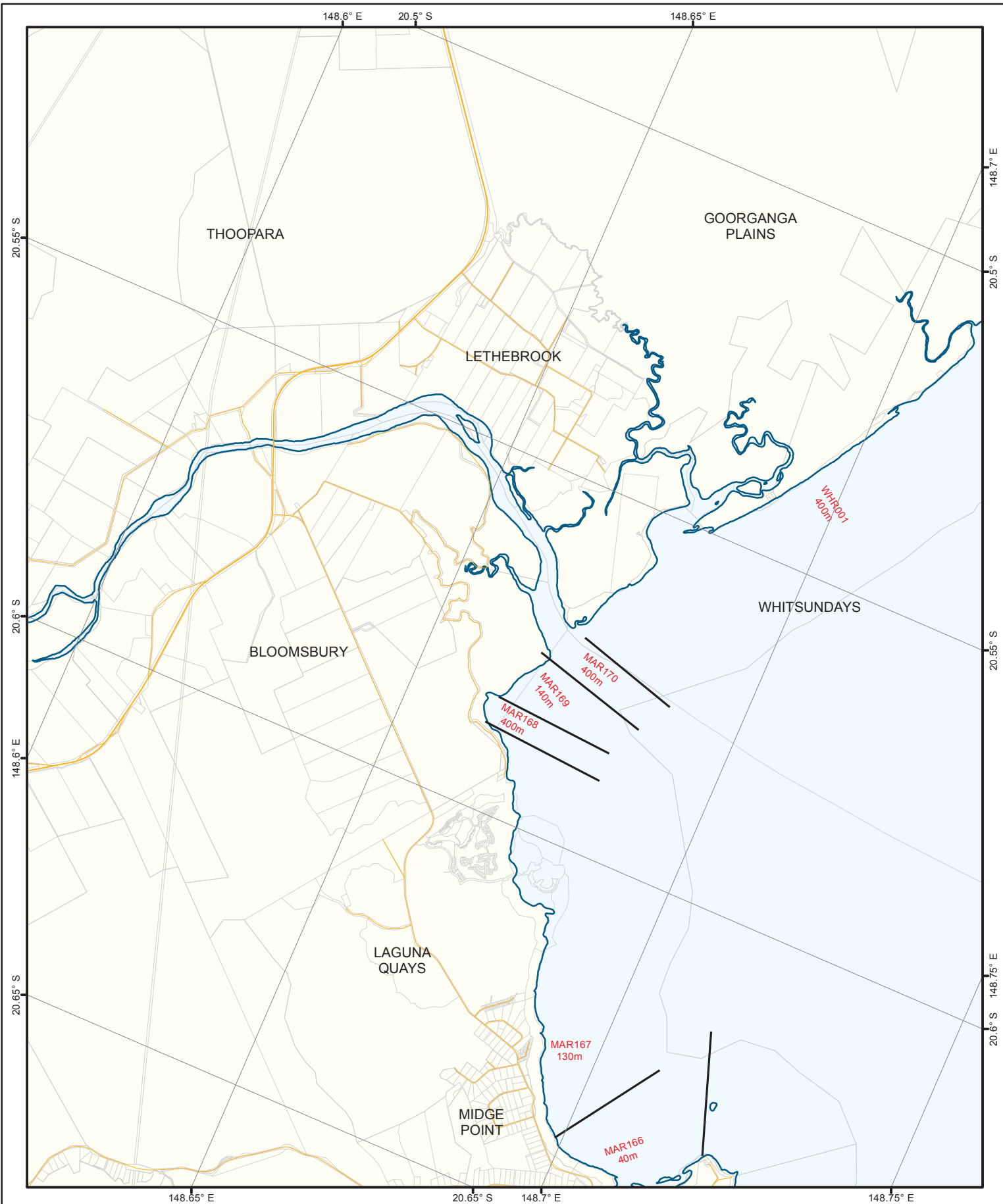
MaR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



Projection: Albers. Datum: GDA 1994.









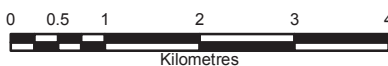
Erosion Prone Area Linear Distances and their Locations for Mackay Region Local Government Area

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MaR006 Segment number and linear distance for erosion prone area

-  Erosion Prone Area segment start/stop location
-  Roads
-  Queensland coast
-  Cadastral boundaries



MAR3A Map 10

Projection: Albers. Datum: GDA 1994.

