

Erosion Prone Area

Gladstone 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:

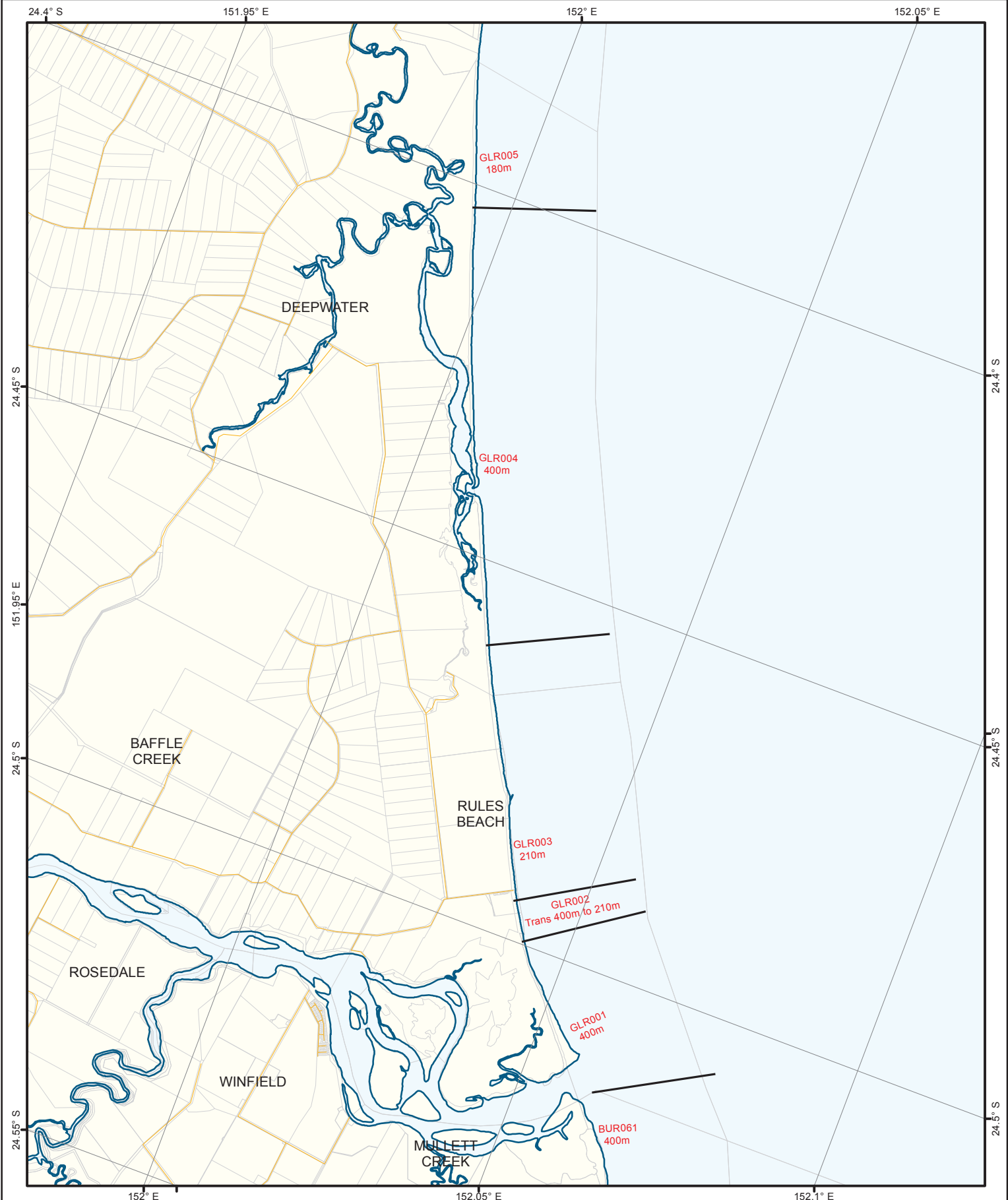
**Plan No:
GLR3A**

GLR3A 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)
GLR001	152.06162	-24.51645	152.04270	-24.49971	400m
GLR002	152.04270	-24.49971	152.03913	-24.49462	Trans 400m to 210m
GLR003	152.03913	-24.49462	152.02067	-24.46162	210m
GLR004	152.02067	-24.46162	151.99408	-24.40335	400m
GLR005	151.99408	-24.40335	151.94729	-24.25879	180m
GLR006	151.94729	-24.25879	151.94620	-24.25459	0m
GLR007	151.94620	-24.25459	151.94432	-24.24770	130m
GLR008	151.94432	-24.24770	151.93672	-24.23434	75m Possible Bedrock
GLR009	151.93672	-24.23434	151.93068	-24.23098	130m
GLR010	151.93068	-24.23098	151.92600	-24.22515	75m Possible Bedrock
GLR011	151.92600	-24.22515	151.92193	-24.21655	180m
GLR012	151.92193	-24.21655	151.91949	-24.21160	165m Possible Bedrock
GLR013	151.91949	-24.21160	151.91659	-24.21026	0m
GLR014	151.91659	-24.21026	151.91500	-24.21107	75m Possible Bedrock
GLR015	151.91500	-24.21107	151.91212	-24.20964	165m Possible Bedrock
GLR016	151.91212	-24.20964	151.90886	-24.20888	0m
GLR017	151.90886	-24.20888	151.90815	-24.20927	60m Possible Bedrock
GLR018	151.90715	-24.20889	151.90815	-24.20927	Trans 180m to 60m
GLR019	151.90715	-24.20889	151.89053	-24.16107	180m
GLR020	151.89053	-24.16107	151.88258	-24.15991	0m
GLR021	151.88258	-24.15991	151.88128	-24.16782	135m
GLR022	151.88128	-24.16782	151.88093	-24.16876	0m
GLR023	151.87579	-24.17210	151.86211	-24.17387	400m
GLR024	151.86211	-24.17387	151.84854	-24.17250	180m
GLR025	151.84854	-24.17250	151.82998	-24.16671	400m
GLR026	151.82998	-24.16671	151.79662	-24.13321	180m
GLR027	151.79662	-24.13321	151.78082	-24.10455	400m
GLR028	151.78082	-24.10455	151.77242	-24.07796	180m
GLR029	151.77242	-24.07796	151.76666	-24.04091	240m
GLR030	151.76533	-24.03273	151.76666	-24.04091	400m
GLR031	151.76533	-24.03273	151.75913	-24.01880	0m
GLR032	151.75913	-24.01880	151.74502	-24.00868	165m
GLR033	151.74502	-24.00868	151.74072	-24.00263	0m
GLR034	151.74072	-24.00263	151.74526	-24.02309	75m Possible Bedrock
GLR035	151.72922	-24.02237	151.72633	-24.02146	400m
GLR036	151.72633	-24.02146	151.67356	-23.98936	185m
GLR037	151.67356	-23.98936	151.66610	-23.98842	75m Possible Bedrock
GLR038	151.66610	-23.98842	151.65756	-23.98384	170m
GLR039	151.65756	-23.98384	151.65454	-23.98367	75m Possible Bedrock
GLR040	151.65454	-23.98367	151.64735	-23.97867	170m
GLR041	151.64735	-23.97867	151.64027	-23.98165	75m Possible Bedrock
GLR042	151.64027	-23.98165	151.62802	-23.97601	170m
GLR043	151.62802	-23.97601	151.62491	-23.97734	0m

GLR044	151.62491	-23.97734	151.61315	-23.97863	145m
GLR045	151.61315	-23.97863	151.60572	-23.99089	75m Possible Bedrock
GLR046	151.60572	-23.99089	151.61658	-24.00723	400m
GLR047	151.61291	-24.04405	151.57310	-24.03678	75m Possible Bedrock
GLR048	151.57310	-24.03678	151.56689	-24.03705	105m
GLR049	151.56689	-24.03705	151.56432	-24.03765	0m
GLR050	151.54139	-24.03819	151.53768	-24.02741	400m
GLR051	151.53768	-24.02741	151.51020	-24.01761	120m
GLR052	151.51020	-24.01761	151.50187	-24.01365	400m
GLR053	151.50187	-24.01365	151.46960	-23.99562	115m
GLR054	151.46960	-23.99562	151.46661	-23.99676	75m Possible Bedrock
GLR055	151.46661	-23.99676	151.44658	-23.99337	120m
GLR056	151.44658	-23.99337	151.43868	-24.00961	400m
GLR057	151.43127	-24.00809	151.42557	-23.98585	Trans 400m to 150m
GLR058	151.42557	-23.98585	151.39767	-23.96345	150m
GLR059	151.39767	-23.96345	151.37868	-23.94983	400m
GLR060	151.37751	-23.95310	151.37399	-23.94520	Seaward of toe of hill
GLR061	151.37399	-23.94520	151.36202	-23.93783	145m Possible Bedrock
GLR062	151.36202	-23.93783	151.34722	-23.92163	400m
GLR063	151.34722	-23.92163	151.33631	-23.90992	150m
GLR064	151.33631	-23.90992	151.31872	-23.85978	400m
GLR065	151.36646	-23.87445	151.37161	-23.87666	0m
GLR066	151.37161	-23.87666	151.37291	-23.87736	110m
GLR067	151.37291	-23.87736	151.38180	-23.87767	0m
GLR068	151.38180	-23.87767	151.38567	-23.87432	120m
GLR069	151.38567	-23.87432	151.38727	-23.87445	Seaward of base of cliff
GLR070	151.38727	-23.87445	151.38853	-23.87461	0m
GLR071	151.38853	-23.87461	151.38848	-23.87248	Seaward of edge of highest plateau behind beach
GLR072	151.38848	-23.87248	151.38843	-23.87142	0m
GLR073	151.38843	-23.87142	151.38995	-23.86718	115m
GLR074	151.38995	-23.86718	151.39216	-23.86041	0m
GLR075	151.39216	-23.86041	151.38453	-23.83679	115m
GLR076	151.38453	-23.83679	151.38147	-23.83260	0m
GLR077	151.38147	-23.83260	151.35131	-23.79606	115m
GLR078	151.35131	-23.79606	151.33728	-23.75996	140m
GLR079	151.33728	-23.75996	151.33728	-23.75959	105m
GLR080	151.33728	-23.75959	151.33033	-23.75886	65m
GLR081	151.31409	-23.76055	151.30941	-23.75478	0m
GLR082	151.30941	-23.75478	151.29959	-23.74175	160m
GLR083	151.29959	-23.74175	151.29747	-23.73379	400m
GLR084	151.29747	-23.73379	151.29477	-23.71485	160m
GLR085	151.29477	-23.71485	151.29303	-23.70852	0m
GLR086	151.29303	-23.70852	151.26651	-23.66474	0m
GLR087	151.26651	-23.66474	151.25289	-23.66017	140m
GLR088	151.25289	-23.66017	151.22377	-23.57005	100m Possible Bedrock
GLR089	151.22377	-23.57005	151.23503	-23.50194	140m Possible Bedrock
GLR090	151.23503	-23.50194	151.23637	-23.48900	Width of peninsula
GLR091	151.23637	-23.48900	151.23058	-23.48702	0m
GLR092	151.23058	-23.48702	151.22376	-23.50198	Width of peninsula
GLR093	151.22376	-23.50198	151.19605	-23.52278	400m
GLR094	151.19605	-23.52278	151.07414	-23.46147	400m

GLR095	151.07414	-23.46147	151.05771	-23.44777	140m Possible Bedrock
GLR096	151.05771	-23.44777	151.05286	-23.45610	0m
GLR097	151.05286	-23.45610	151.03177	-23.45530	400m Possible Bedrock
GLR098	151.03177	-23.45530	151.01690	-23.45265	140m Possible Bedrock
GLR099	151.01690	-23.45265	151.01427	-23.46838	400m
GLR100	151.01427	-23.46838	151.01425	-23.47344	0m
GLR101	151.01425	-23.47344	150.99257	-23.48081	400m
GLR102	150.99257	-23.48081	150.99213	-23.48300	0m
GLR103	150.99213	-23.48300	150.94531	-23.55274	400m Possible Bedrock
GLR104	150.94531	-23.55274	150.88901	-23.56227	400m



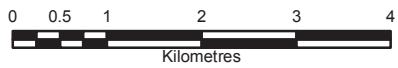
Erosion Prone Area Linear Distances and their Locations for Gladstone Region Local Government Area

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.

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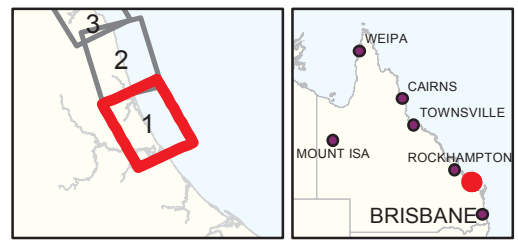
GLR006 Segment number and linear distance for erosion prone area

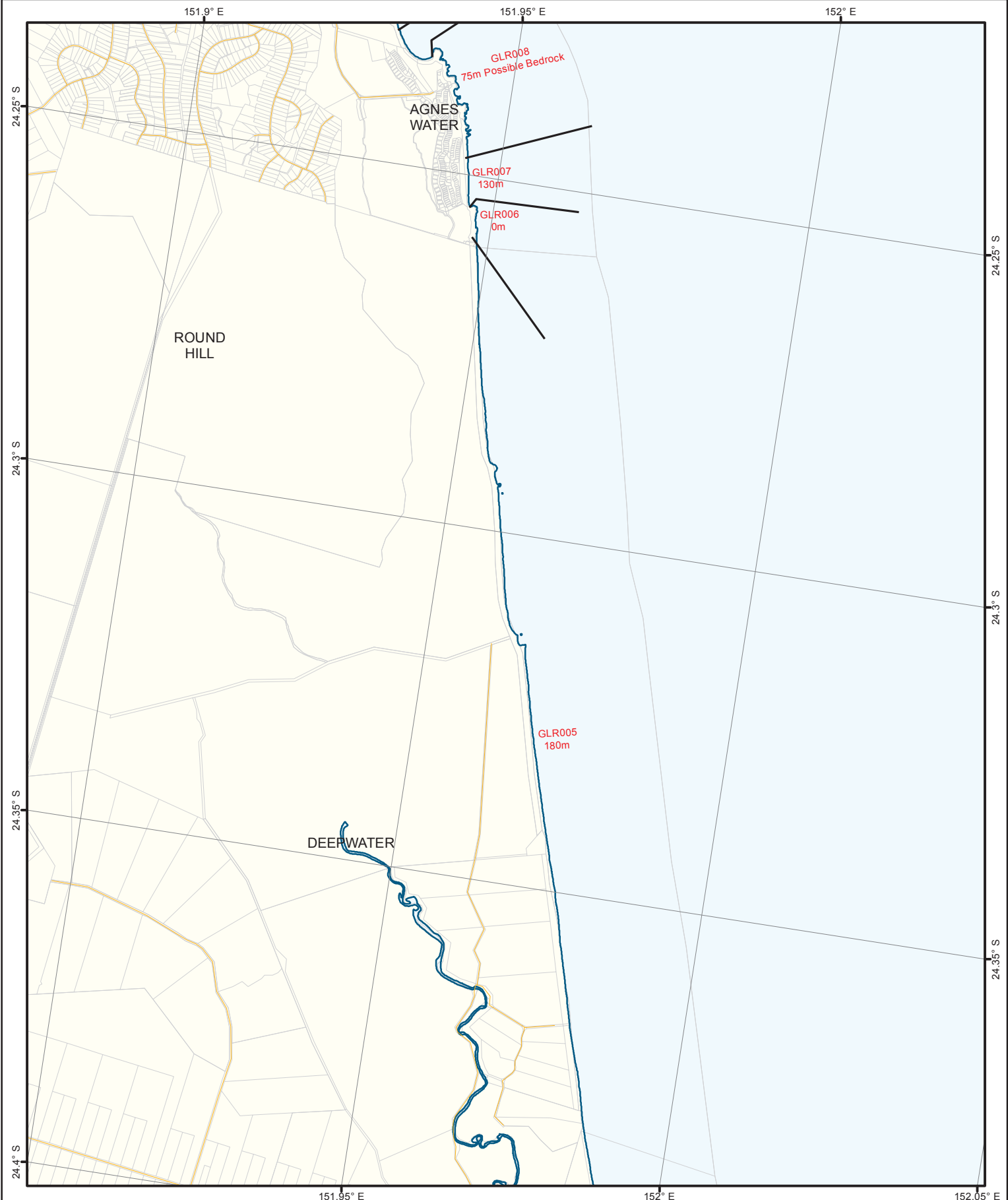
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



GLR3A Map 1

Projection: Albers. Datum: GDA 1994.





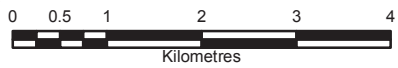
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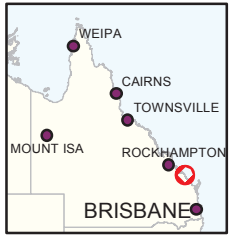
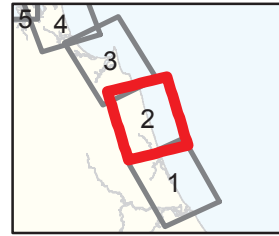
GIR006 Segment number and linear distance for erosion prone area
100m

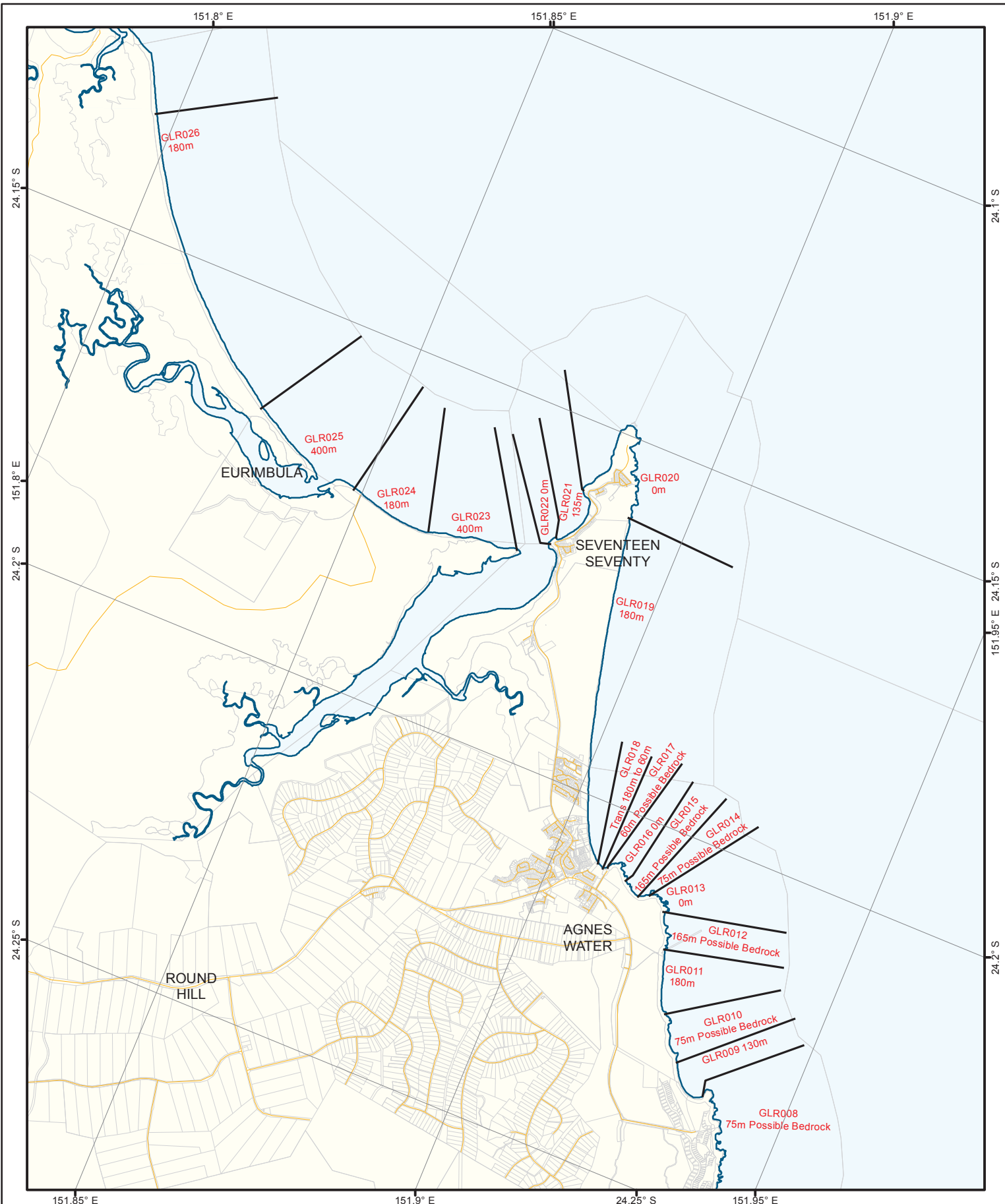
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



GLR3A Map 2

Projection: Albers. Datum: GDA 1994.





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

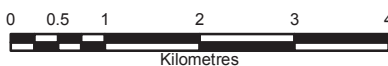
GLR3A Map 3

Note:
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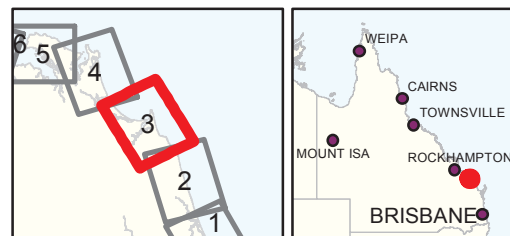
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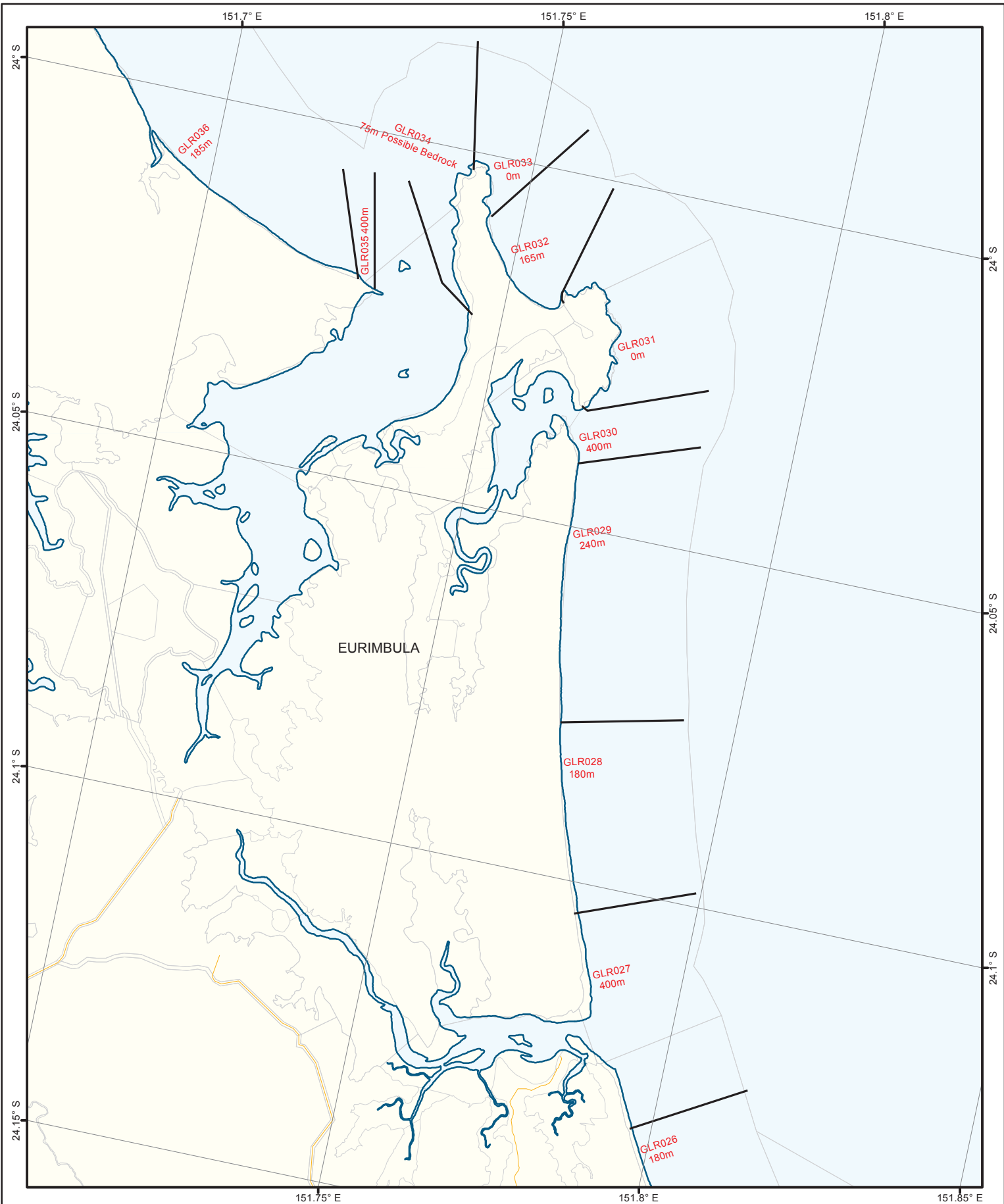
GIR006 Segment number and linear distance for erosion prone area

- 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 Gladstone Region Local Government Area

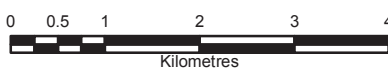
GLR3A Map 4

Note:
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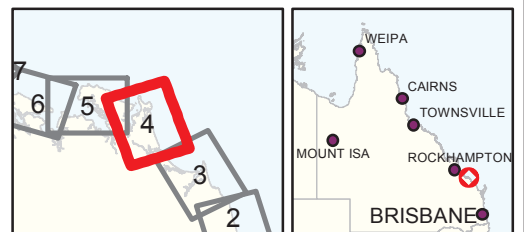
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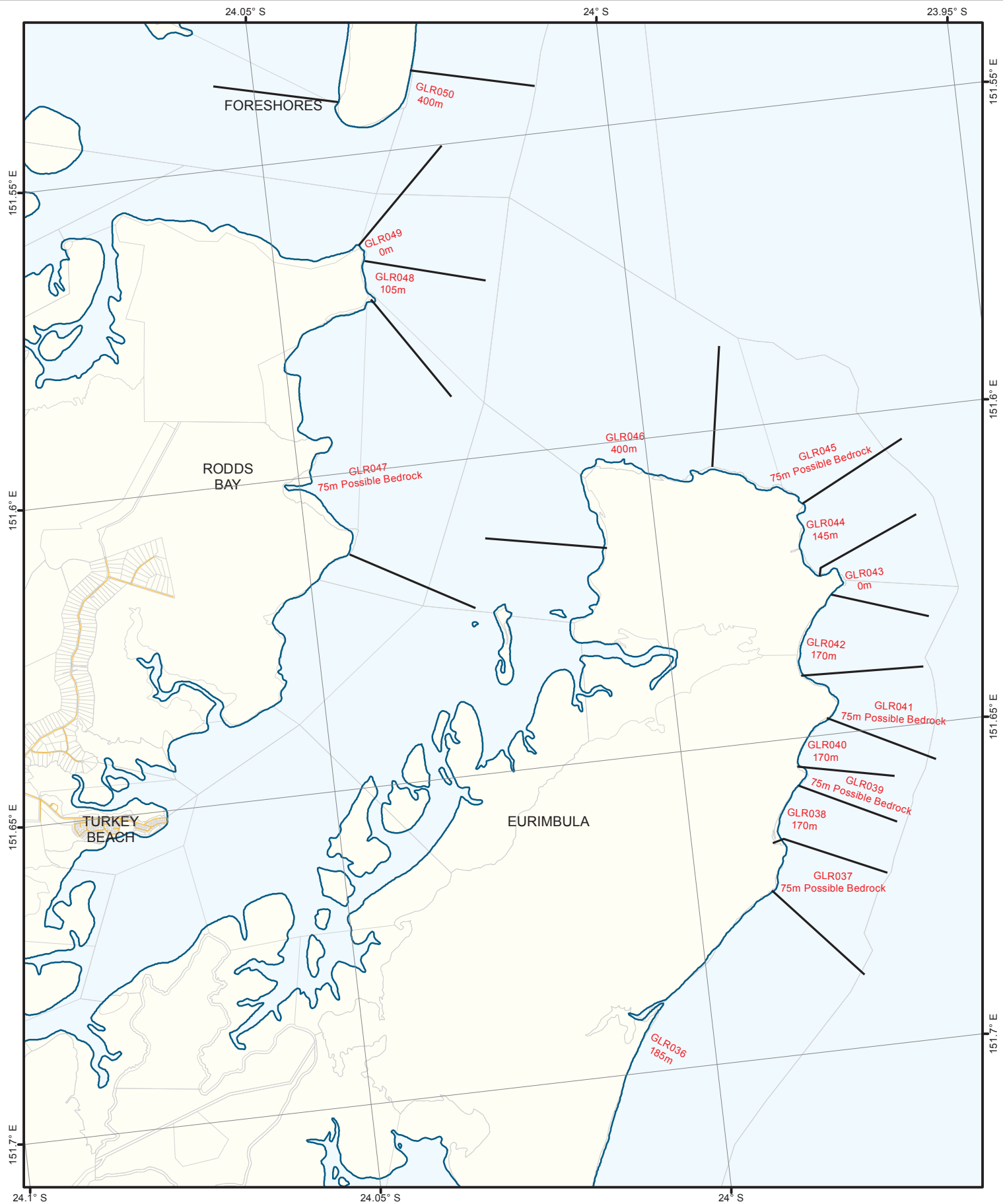
GLR006 Segment number and linear distance for erosion prone area

- 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 Gladstone Region Local Government Area

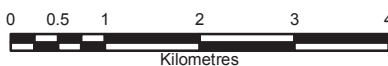
GLR3A Map 5

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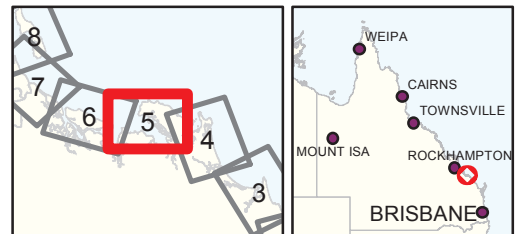
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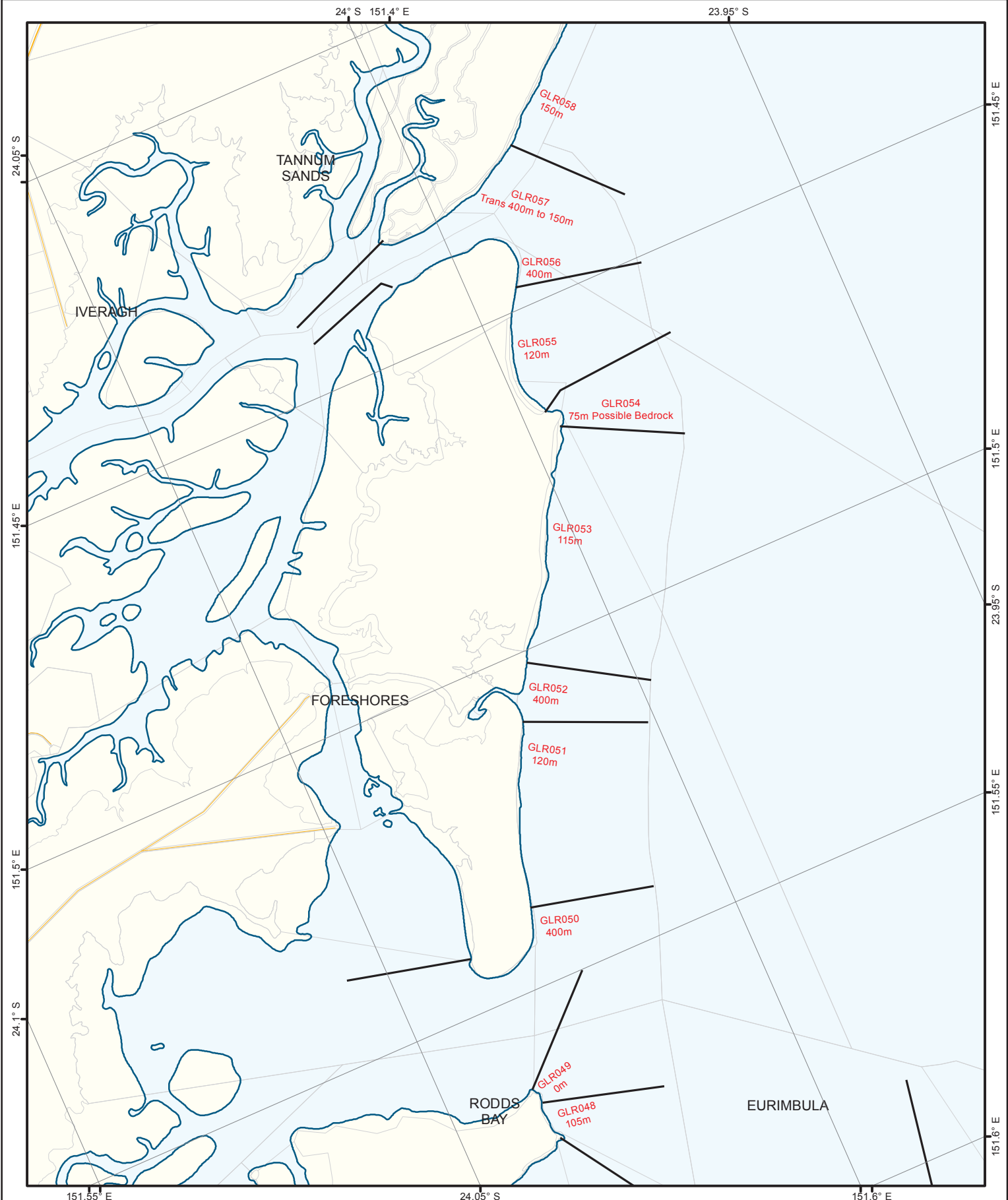
GLR006 Segment number and linear distance for erosion prone area

- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
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Projection: Albers. Datum: GDA 1994.





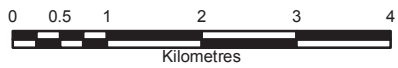
Erosion Prone Area Linear Distances and their Locations for Gladstone Region Local Government Area

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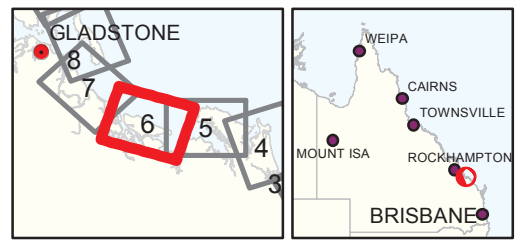
GIR006 Segment number and linear distance for erosion prone area

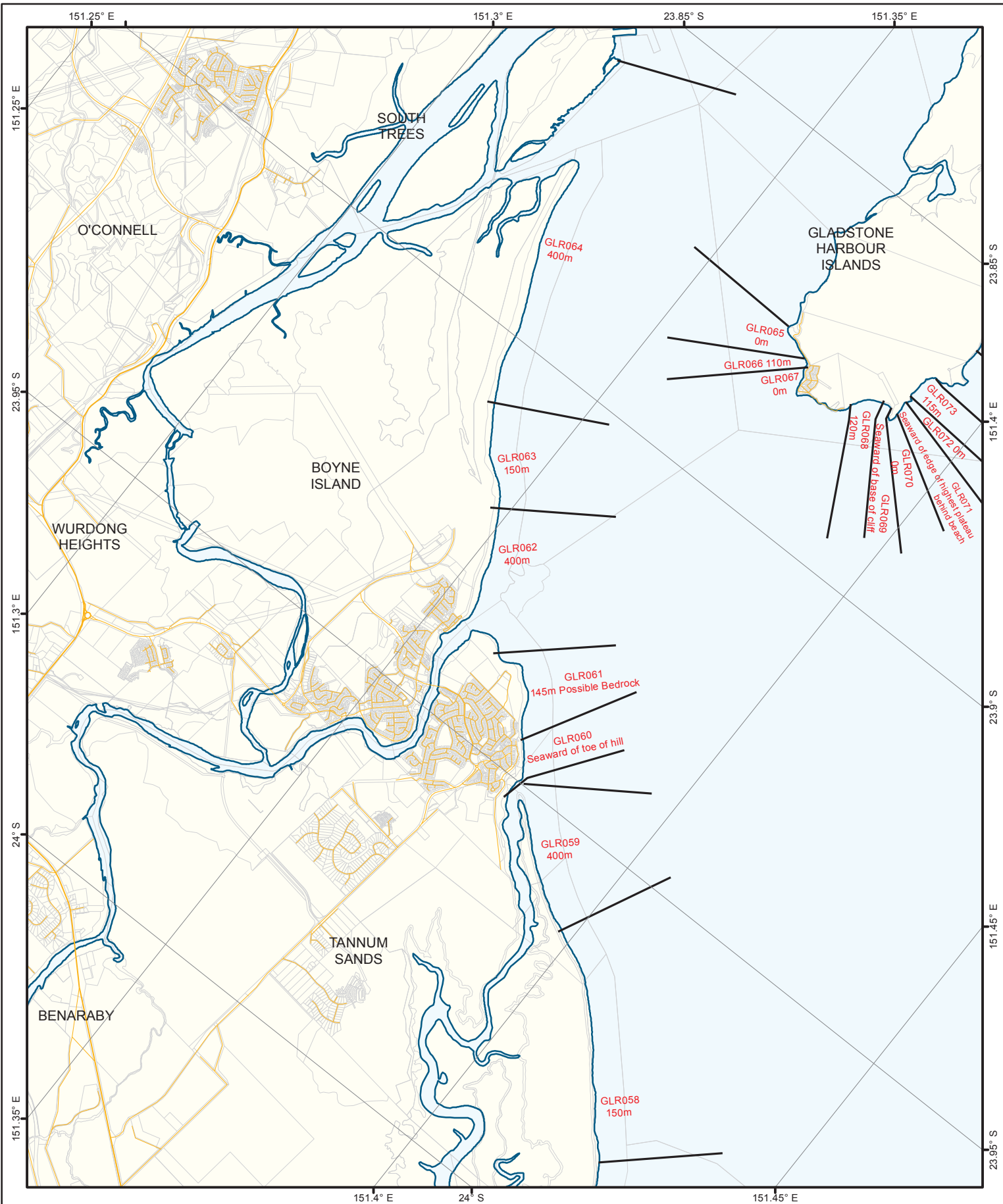
- Erosion Prone Area segment start/stop location
- Roads
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- Cadastral boundaries



GLR3A Map 6

Projection: Albers. Datum: GDA 1994.





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

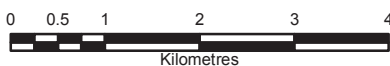
GLR3A Map 7

Note:
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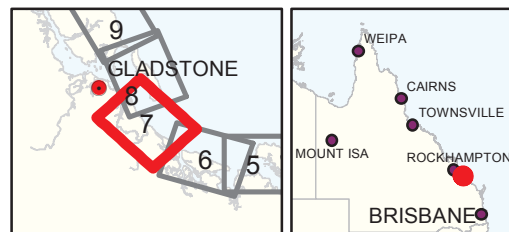
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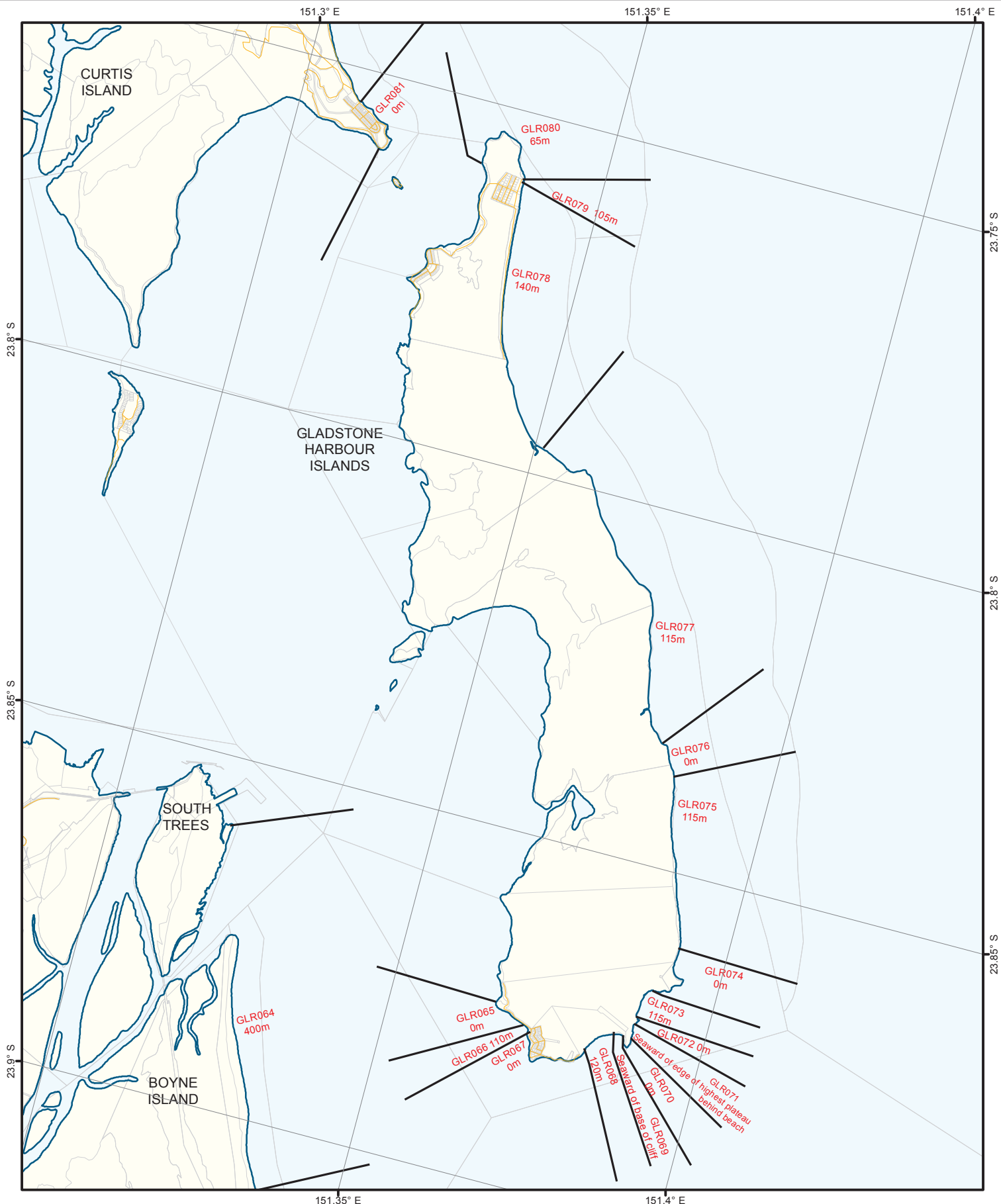
GLR006 Segment number and linear distance for erosion prone area

- 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 Gladstone Region Local Government Area

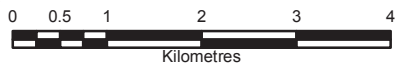
GLR3A Map 8

Note:
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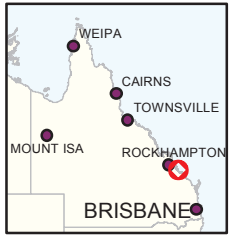
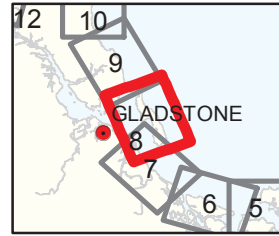
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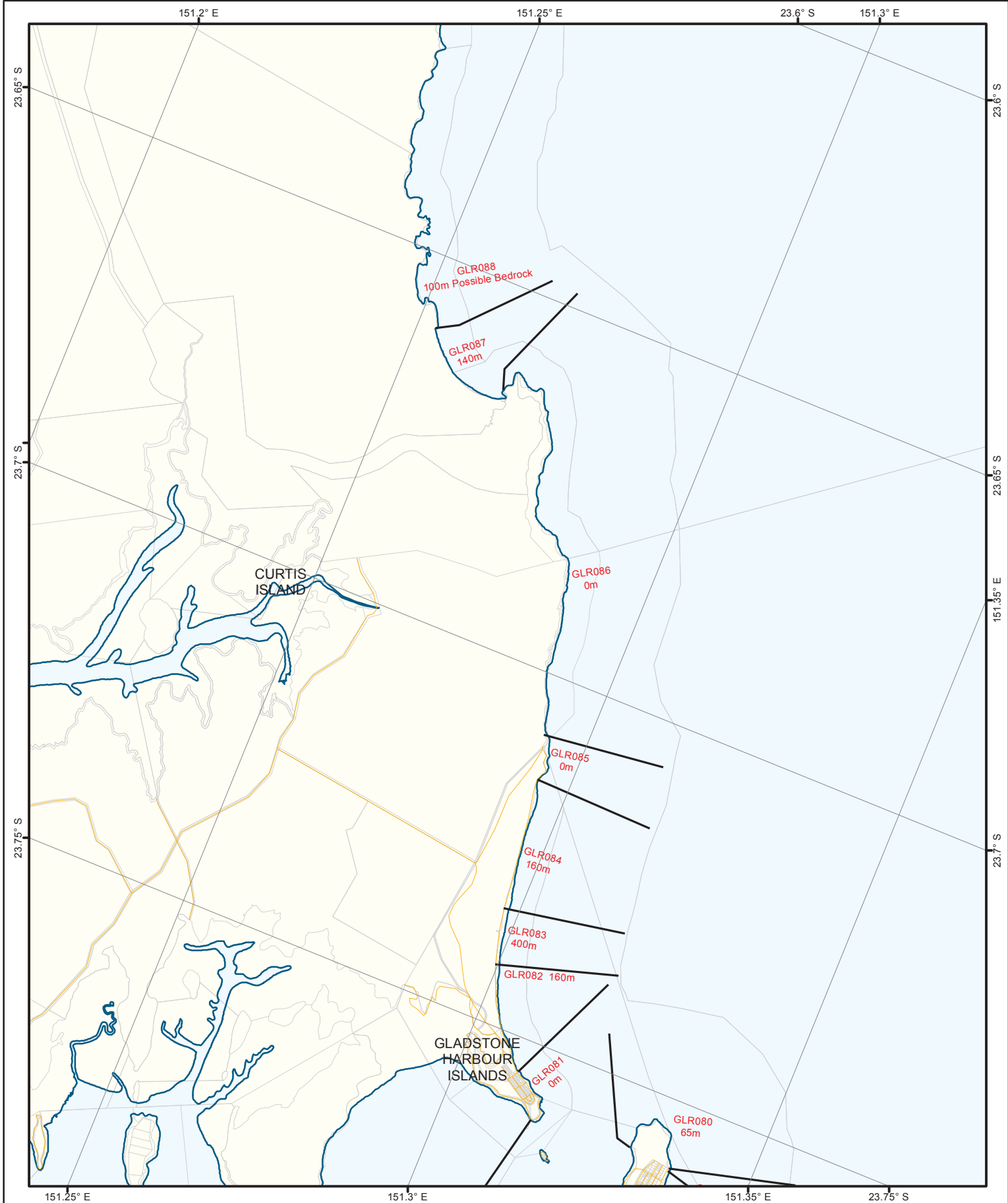
GLR006 Segment number and linear distance for erosion prone area

- 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 Gladstone Region Local Government Area

GLR3A Map 9

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.

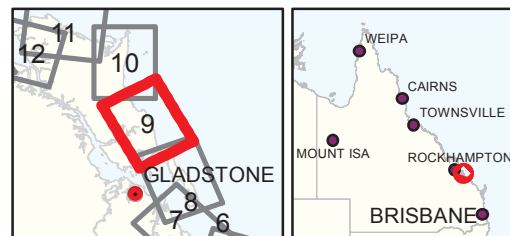
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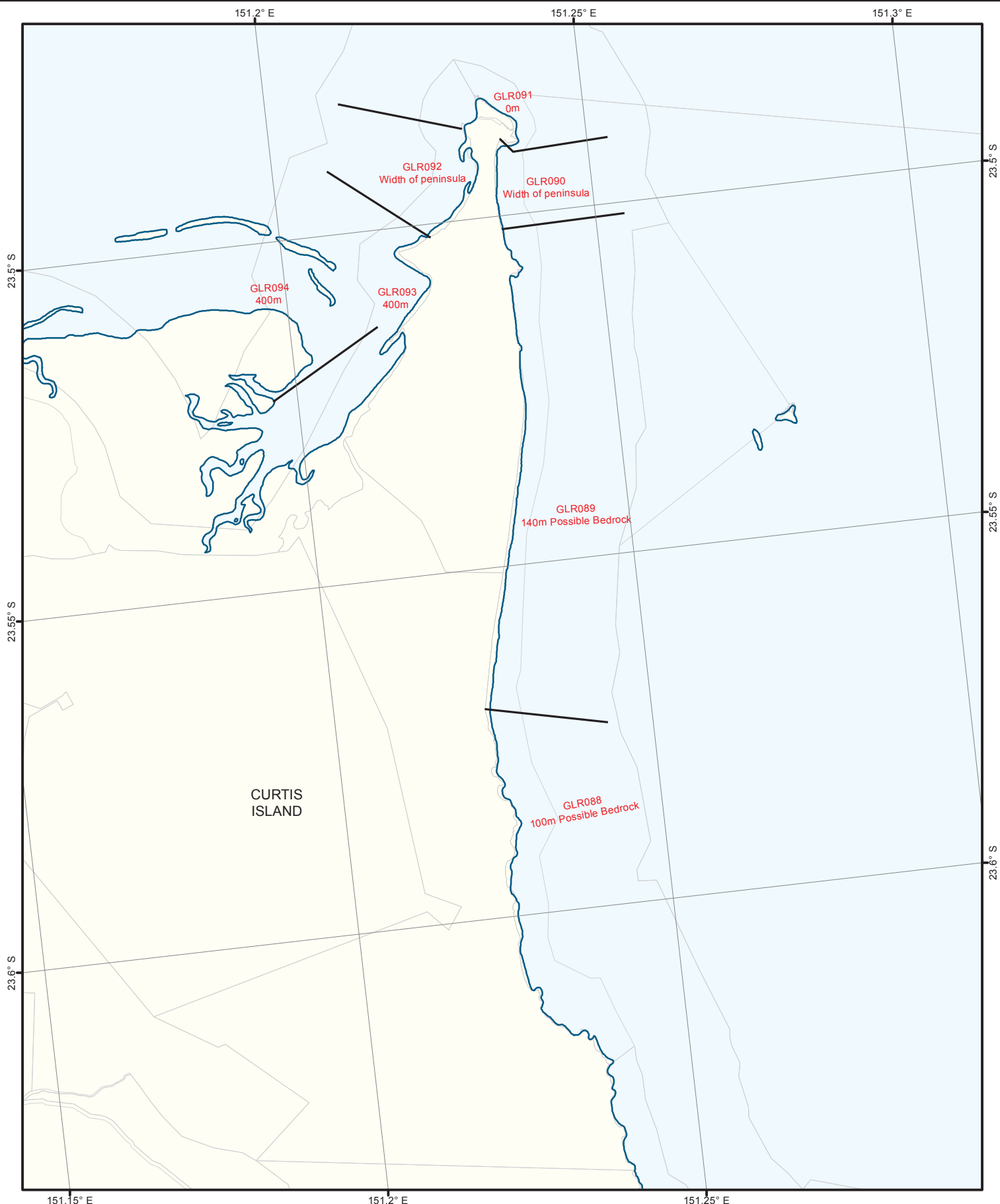
GIR006 Segment number and linear distance for erosion prone area

-  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 Gladstone Region Local Government Area

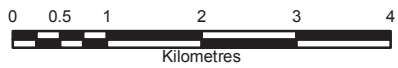
GLR3A Map 10

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.

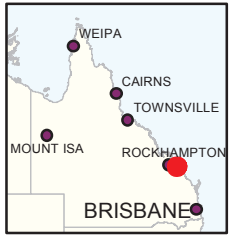
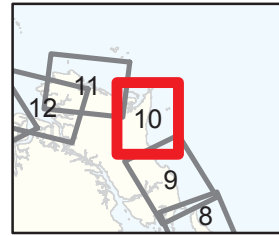
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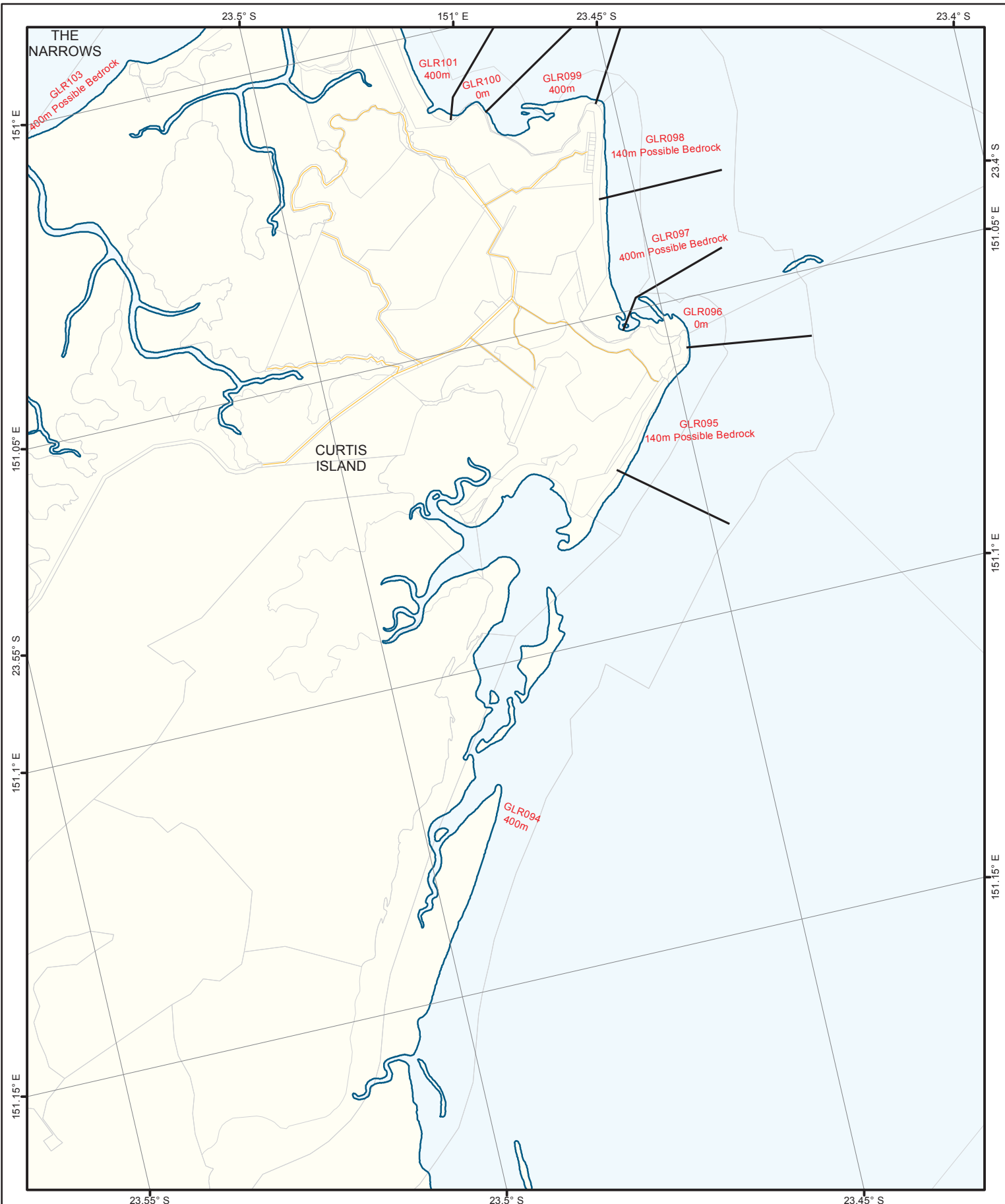
GLR006 Segment number and linear distance for erosion prone area

- 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 Gladstone Region Local Government Area

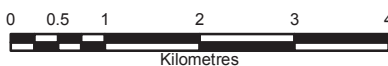
GLR3A Map 11

Note:
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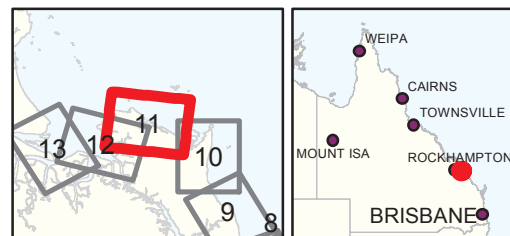
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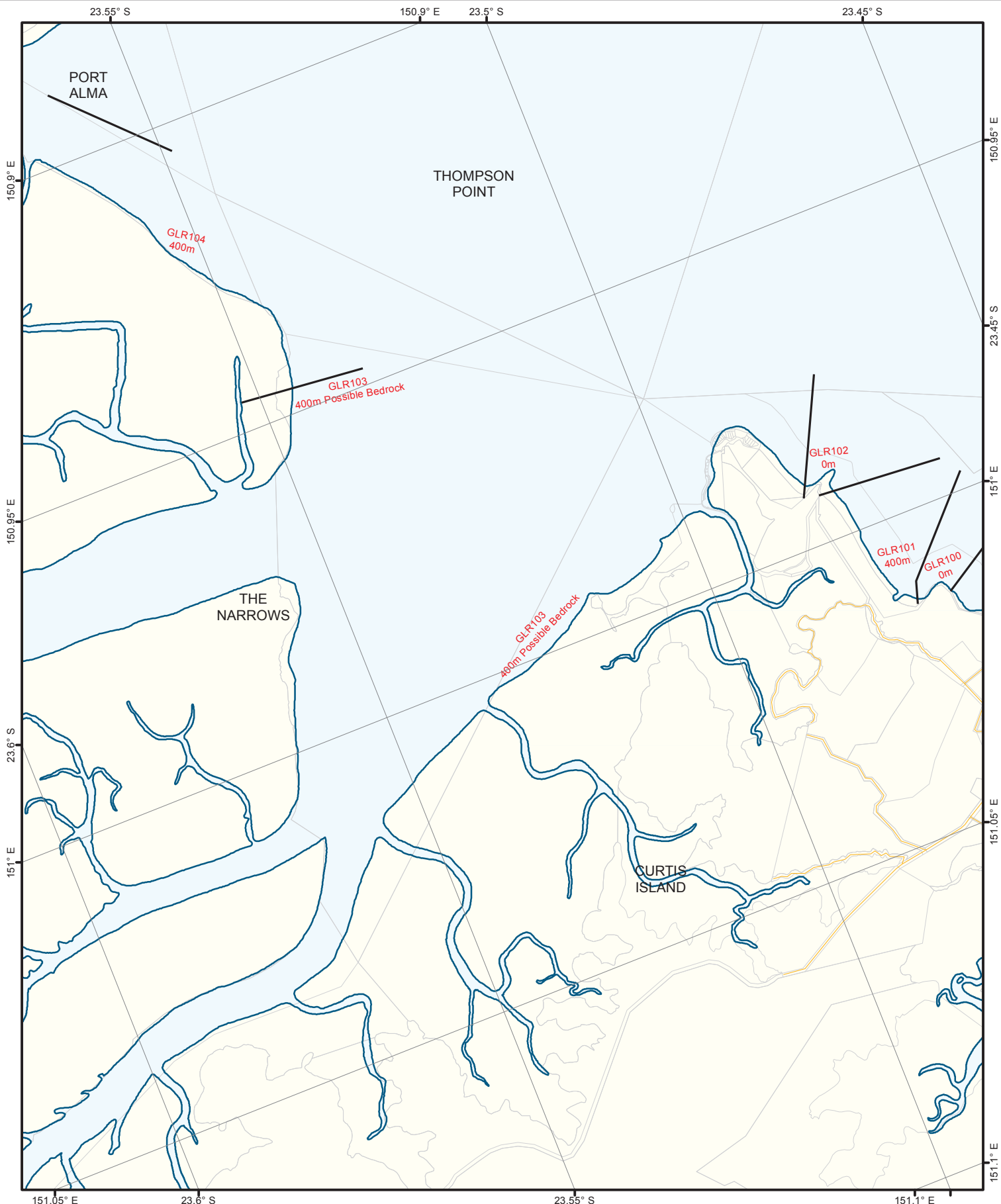
GLR006 Segment number and linear distance for erosion prone area

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



Projection: Albers. Datum: GDA 1994.





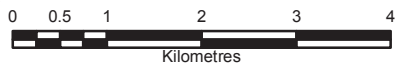
Erosion Prone Area Linear Distances and their Locations for Gladstone Region Local Government Area

Note:
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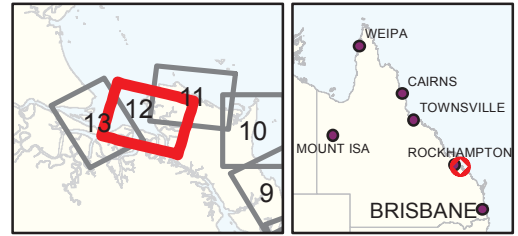
GIR006 Segment number and linear distance for erosion prone area

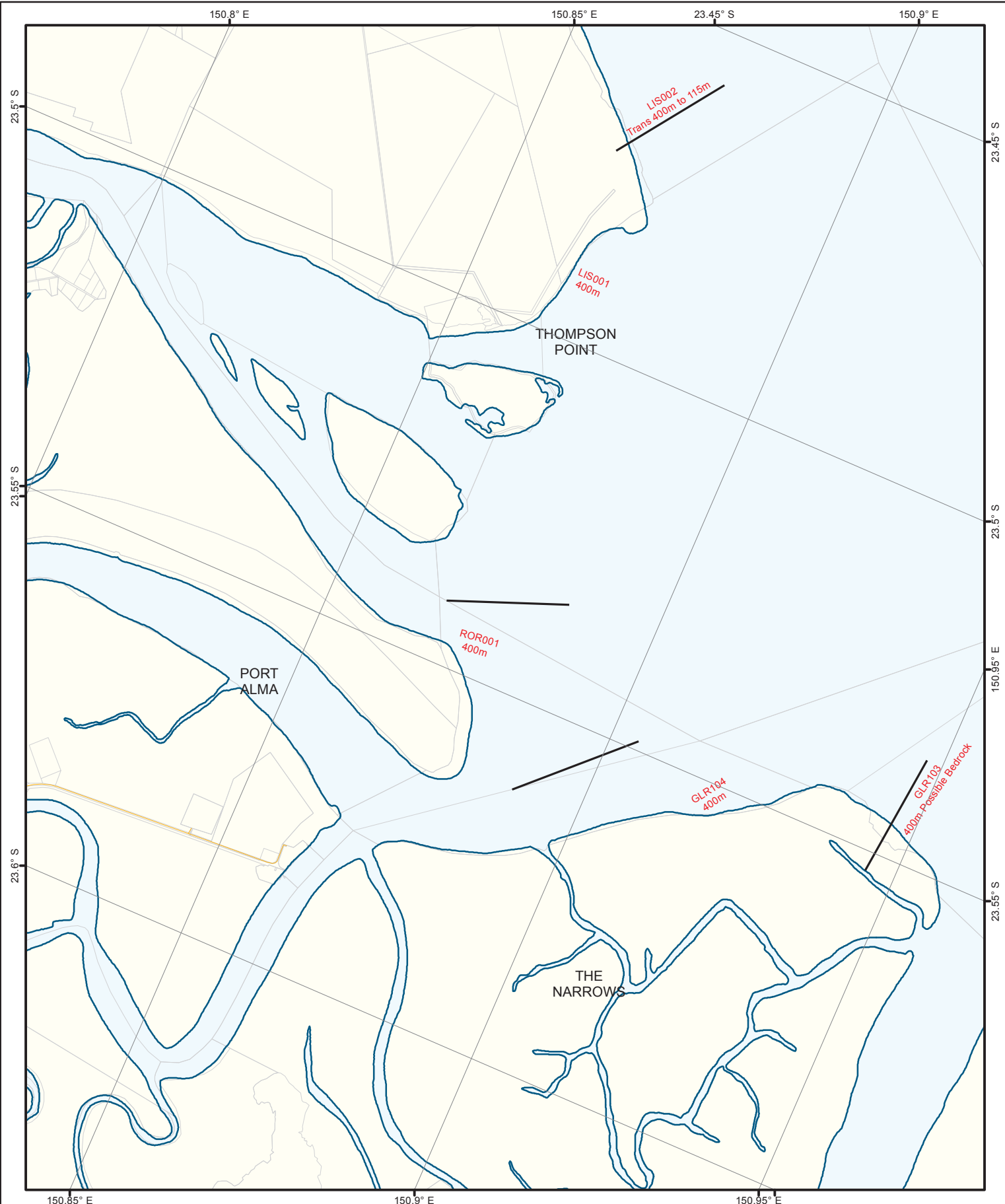
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



GLR3A Map 12

Projection: Albers. Datum: GDA 1994.









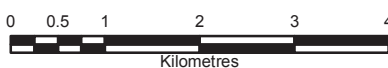
Erosion Prone Area Linear Distances and their Locations for Gladstone Region Local Government Area

Note:
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GIR006 Segment number and linear distance for erosion prone area

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



GLR3A Map 13

Projection: Albers. Datum: GDA 1994.

