

# **Erosion Prone Area**

## **Torres Shire 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](http://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:  
TSS3A**

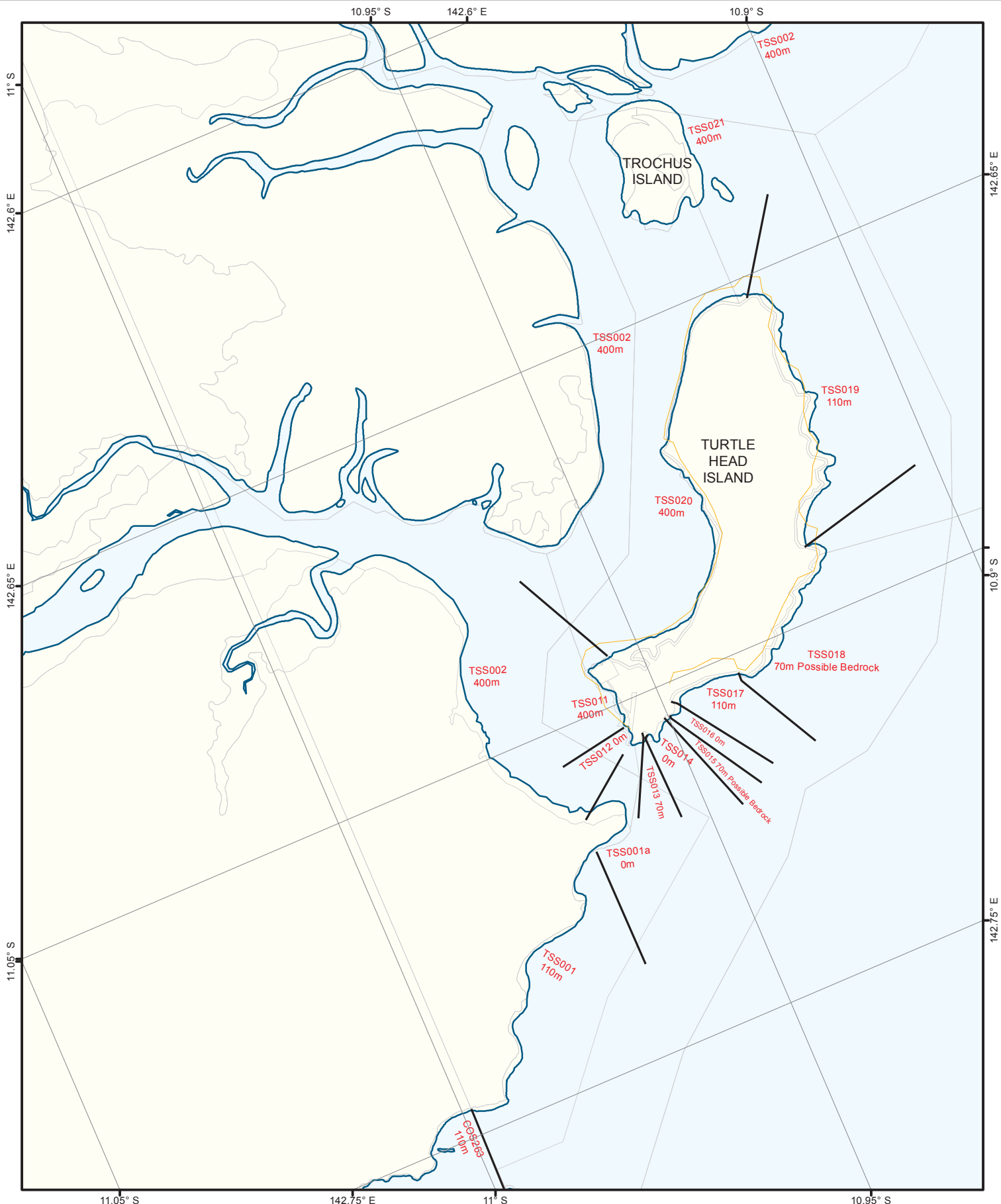
**TSS3A Table 1: Linear distances for the erosion prone area and the specific location of each segment**

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)
TSS001	142.74597	-10.99861	142.71863	-10.96729	110m
TSS001a	142.71863	-10.96729	142.71377	-10.96691	0m
TSS002	142.71377	-10.96691	142.52032	-10.84387	400m
TSS003	142.55483	-10.71945	142.55225	-10.71104	80m Possible Bedrock
TSS004	142.55225	-10.71104	142.54978	-10.71287	0m
TSS005	142.54978	-10.71287	142.53832	-10.69780	110m
TSS006	142.53832	-10.69780	142.53139	-10.69221	0m
TSS006a	142.53139	-10.69221	142.51422	-10.70204	400m
TSS006b	142.51422	-10.70204	142.51184	-10.70807	0m
TSS006c	142.51184	-10.70807	142.49192	-10.71530	400m
TSS006d	142.49192	-10.71530	142.44361	-10.71356	125m
TSS006e	142.44361	-10.71356	142.43649	-10.71082	0m
TSS006f	142.43649	-10.71082	142.42880	-10.71982	125m
TSS006g	142.42880	-10.71982	142.42647	-10.72507	400m
TSS006h	142.42647	-10.72507	142.42352	-10.72733	110m
TSS007	142.41236	-10.77876	142.41069	-10.78519	70m Possible Bedrock
TSS008	142.41069	-10.78519	142.40990	-10.78804	125m
TSS009	142.40990	-10.78804	142.40728	-10.79264	70m Possible Bedrock
TSS010	142.40728	-10.79264	142.40591	-10.79388	0m
TSS011	142.69296	-10.95468	142.70355	-10.95656	400m
TSS012	142.70355	-10.95656	142.70527	-10.95444	0m
TSS013	142.70527	-10.95444	142.70586	-10.95380	70m
TSS014	142.70586	-10.95380	142.70453	-10.95063	0m
TSS015	142.70453	-10.95063	142.70453	-10.94975	70m Possible Bedrock
TSS016	142.70453	-10.94975	142.70279	-10.94880	0m
TSS017	142.70279	-10.94880	142.70274	-10.93820	110m
TSS018	142.70274	-10.93820	142.68970	-10.92222	70m Possible Bedrock
TSS019	142.68970	-10.92222	142.65297	-10.91568	110m
TSS020	142.65297	-10.91568	142.69296	-10.95468	400m
TSS021	142.62560	-10.92552	142.62560	-10.92552	400m
TSS023	142.62264	-10.74671	142.61842	-10.74162	0m
TSS024	142.61842	-10.74162	142.61814	-10.73398	110m
TSS025	142.61814	-10.73398	142.61726	-10.73227	0m
TSS026	142.61726	-10.73227	142.61604	-10.72551	110m
TSS027	142.61604	-10.72551	142.61369	-10.72649	0m
TSS028	142.61369	-10.72649	142.59782	-10.71590	110m
TSS029	142.59782	-10.71590	142.59332	-10.71333	0m
TSS030	142.59332	-10.71333	142.58959	-10.71397	110m
TSS031	142.58959	-10.71397	142.58606	-10.71606	0m
TSS032	142.58606	-10.71606	142.62264	-10.74671	110m
TSS038	142.38603	-10.74887	142.38769	-10.74711	0m
TSS039	142.38769	-10.74711	142.40877	-10.71370	125m
TSS040	142.40877	-10.71370	142.40202	-10.71058	0m

TSS041	142.40202	-10.71058	142.39728	-10.71053	110m
TSS042	142.39728	-10.71053	142.39602	-10.71220	0m
TSS043	142.39602	-10.71220	142.39174	-10.71570	95m
TSS044	142.39174	-10.71570	142.39119	-10.71888	0m
TSS045	142.39119	-10.71888	142.38603	-10.74887	110m
TSS049	142.31408	-10.50836	142.30917	-10.50930	0m
TSS050	142.30917	-10.50930	142.31408	-10.50836	95m
TSS051	142.28579	-10.57700	142.25137	-10.58544	400m
TSS052	142.29988	-10.57474	142.28579	-10.57700	110m
TSS053	142.30792	-10.57426	142.29988	-10.57474	0m
TSS054	142.31847	-10.62079	142.30792	-10.57426	95m
TSS055	142.31362	-10.62496	142.31847	-10.62079	0m
TSS056	142.30482	-10.63295	142.31362	-10.62496	95m
TSS057	142.30123	-10.63501	142.30482	-10.63295	0m
TSS058	142.29824	-10.63624	142.30123	-10.63501	95m
TSS059	142.29603	-10.63632	142.29824	-10.63624	0m
TSS060	142.26091	-10.63786	142.29603	-10.63632	110m
TSS061	142.24195	-10.59857	142.26091	-10.63786	400m
TSS062	142.25137	-10.58544	142.24195	-10.59857	110m
TSS063	142.21010	-10.57587	142.23352	-10.57420	95m
TSS064	142.23352	-10.57420	142.23000	-10.58102	70m Possible Bedrock
TSS065	142.23000	-10.58102	142.21147	-10.58874	95m
TSS066	142.21147	-10.58874	142.20972	-10.58853	0m
TSS067	142.20972	-10.58853	142.20969	-10.58515	95m
TSS068	142.20969	-10.58515	142.20936	-10.58378	0m
TSS069	142.20751	-10.58188	142.20936	-10.58378	95m
TSS070	142.20751	-10.58188	142.21010	-10.57587	0m
TSS071	142.30335	-10.71236	142.30435	-10.71050	0m Possible Bedrock
TSS072	142.30544	-10.72242	142.30335	-10.71236	70m Possible Bedrock
TSS073	142.30492	-10.72559	142.30544	-10.72242	0m
TSS074	142.29849	-10.73106	142.30492	-10.72559	70m Possible Bedrock
TSS075	142.29459	-10.73394	142.29849	-10.73106	80m Possible Bedrock
TSS076	142.28988	-10.73140	142.29459	-10.73394	0m
TSS077	142.28655	-10.72442	142.28988	-10.73140	400m
TSS078	142.28536	-10.72107	142.28655	-10.72442	0m
TSS079	142.28395	-10.71786	142.28536	-10.72107	80m Possible Bedrock
TSS080	142.28602	-10.71417	142.28395	-10.71786	0m
TSS081	142.28740	-10.71360	142.28602	-10.71417	80m Possible Bedrock
TSS082	142.28895	-10.71115	142.28740	-10.71360	0m
TSS083	142.29009	-10.71015	142.28895	-10.71115	80m Possible Bedrock
TSS084	142.29049	-10.70800	142.29009	-10.71015	0m
TSS085	142.29240	-10.70563	142.29049	-10.70800	80m Possible Bedrock
TSS086	142.30261	-10.70789	142.29240	-10.70563	95m
TSS087	142.30392	-10.70934	142.30261	-10.70789	0m
TSS088	142.30435	-10.71050	142.30392	-10.70934	70m Possible Bedrock
TSS090	142.27421	-10.70079	142.26476	-10.68622	80m
TSS091	142.27421	-10.70079	142.27176	-10.71621	110m
TSS092	142.26821	-10.72175	142.27176	-10.71621	80m Possible Bedrock
TSS093	142.26821	-10.72175	142.26310	-10.72251	0m
TSS094	142.26025	-10.71977	142.26310	-10.72251	400m
TSS095	142.26025	-10.71977	142.25775	-10.71769	0m
TSS096	142.24061	-10.72626	142.25775	-10.71769	400m

TSS097	142.24061	-10.72626	142.23324	-10.73777	80m Possible Bedrock
TSS098	142.23324	-10.73777	142.22866	-10.73465	0m
TSS099	142.22548	-10.72688	142.22866	-10.73465	80m Possible Bedrock
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TSS101	142.19540	-10.74402	142.19413	-10.74520	0m
TSS102	142.18723	-10.75847	142.19413	-10.74520	80m Possible Bedrock
TSS103	142.18723	-10.75847	142.17723	-10.76921	0m
TSS104	142.17723	-10.76921	142.15656	-10.76168	110m
TSS105	142.15656	-10.76168	142.11849	-10.72203	110m
TSS106	142.11849	-10.72203	142.11516	-10.71707	0m
TSS107	142.11516	-10.71707	142.11624	-10.71515	80m Possible Bedrock
TSS108	142.11624	-10.71515	142.11780	-10.71347	0m
TSS109	142.11432	-10.69830	142.11780	-10.71347	95m
TSS110	142.11432	-10.69830	142.11480	-10.67912	400m
TSS111	142.11480	-10.67912	142.11349	-10.67251	95m
TSS112	142.11349	-10.67251	142.11117	-10.66228	70m Possible Bedrock
TSS113	142.11117	-10.66228	142.11568	-10.66170	0m
TSS114	142.11568	-10.66170	142.12221	-10.64771	80m Possible Bedrock
TSS115	142.12221	-10.64771	142.12435	-10.64455	0m
TSS116	142.12435	-10.64455	142.13068	-10.64006	80m Possible Bedrock
TSS117	142.13068	-10.64006	142.13363	-10.64435	0m
TSS118	142.13363	-10.64435	142.14796	-10.63459	70m Possible Bedrock
TSS119	142.14796	-10.63459	142.15028	-10.62811	0m
TSS120	142.15028	-10.62811	142.15219	-10.62522	80m Possible Bedrock
TSS121	142.15219	-10.62522	142.15662	-10.62406	0m
TSS122	142.15662	-10.62406	142.18690	-10.59982	400m
TSS123	142.18690	-10.59982	142.19041	-10.59711	0m
TSS124	142.19041	-10.59711	142.19508	-10.59589	80m Possible Bedrock
TSS125	142.19508	-10.59589	142.20436	-10.59572	0m
TSS126	142.20436	-10.59572	142.20576	-10.60256	95m
TSS127	142.20576	-10.60256	142.21001	-10.60939	0m
TSS128	142.21001	-10.60939	142.20967	-10.61491	110m
TSS129	142.23942	-10.64610	142.20967	-10.61491	400m
TSS130	142.24417	-10.64682	142.23942	-10.64610	110m
TSS131	142.24417	-10.64682	142.24738	-10.65531	0m
TSS132	142.24738	-10.65531	142.25130	-10.66806	95m
TSS133	142.26476	-10.68622	142.25130	-10.66806	0m
TSS134	142.17540	-10.58487	142.17804	-10.58815	80m Possible Bedrock
TSS135	142.17804	-10.58815	142.17847	-10.59634	95m
TSS136	142.17847	-10.59634	142.17669	-10.60022	0m
TSS137	142.17669	-10.60022	142.14835	-10.59217	95m
TSS138	142.14835	-10.59217	142.15235	-10.59303	0m
TSS139	142.15235	-10.59303	142.16136	-10.59196	80m Possible Bedrock
TSS140	142.16136	-10.59196	142.16531	-10.58984	110m
TSS141	142.16531	-10.58984	142.16822	-10.58939	0m
TSS142	142.16822	-10.58939	142.17540	-10.58487	110m
TSS143	142.15873	-10.55850	142.17053	-10.55763	0m
TSS144	142.17053	-10.55763	142.16251	-10.56590	95m
TSS145	142.16251	-10.56590	142.15470	-10.56904	0m
TSS146	142.15470	-10.56904	142.15016	-10.56676	70m Possible Bedrock
TSS147	142.15016	-10.56676	142.14947	-10.56330	0m
TSS148	142.14947	-10.56330	142.15371	-10.56061	70m Possible Bedrock

TSS149	142.15371	-10.56061	142.15692	-10.56029	0m
TSS150	142.15692	-10.56029	142.15873	-10.55850	70m Possible Bedrock



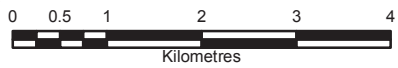
### Erosion Prone Area Linear Distances and their Locations for Torres Shire Local Government Area

**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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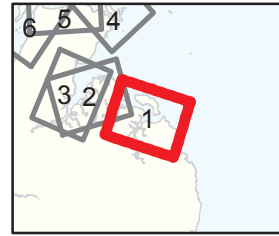
**TSS006** Segment number and linear distance for erosion prone area  
**100m**

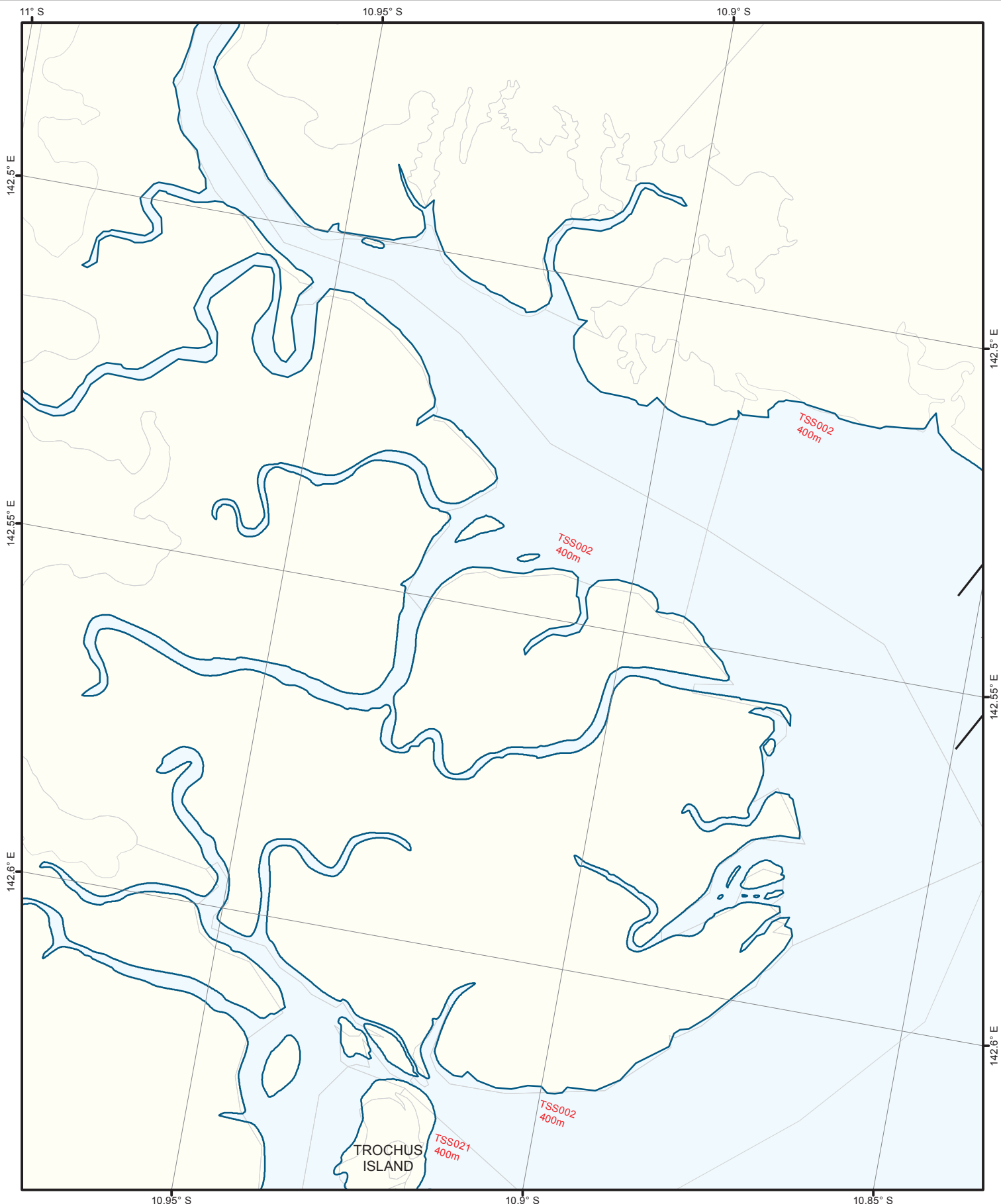
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



### TSS3A Map 1

Projection: Albers. Datum: GDA 1994.





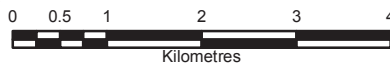
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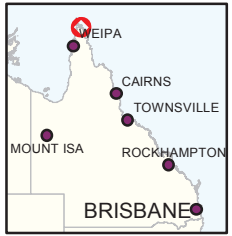
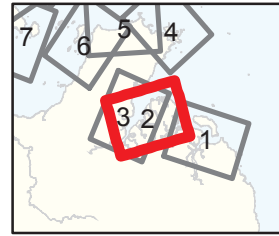
**TSS006** Segment number and linear distance for erosion prone area  
**100m**

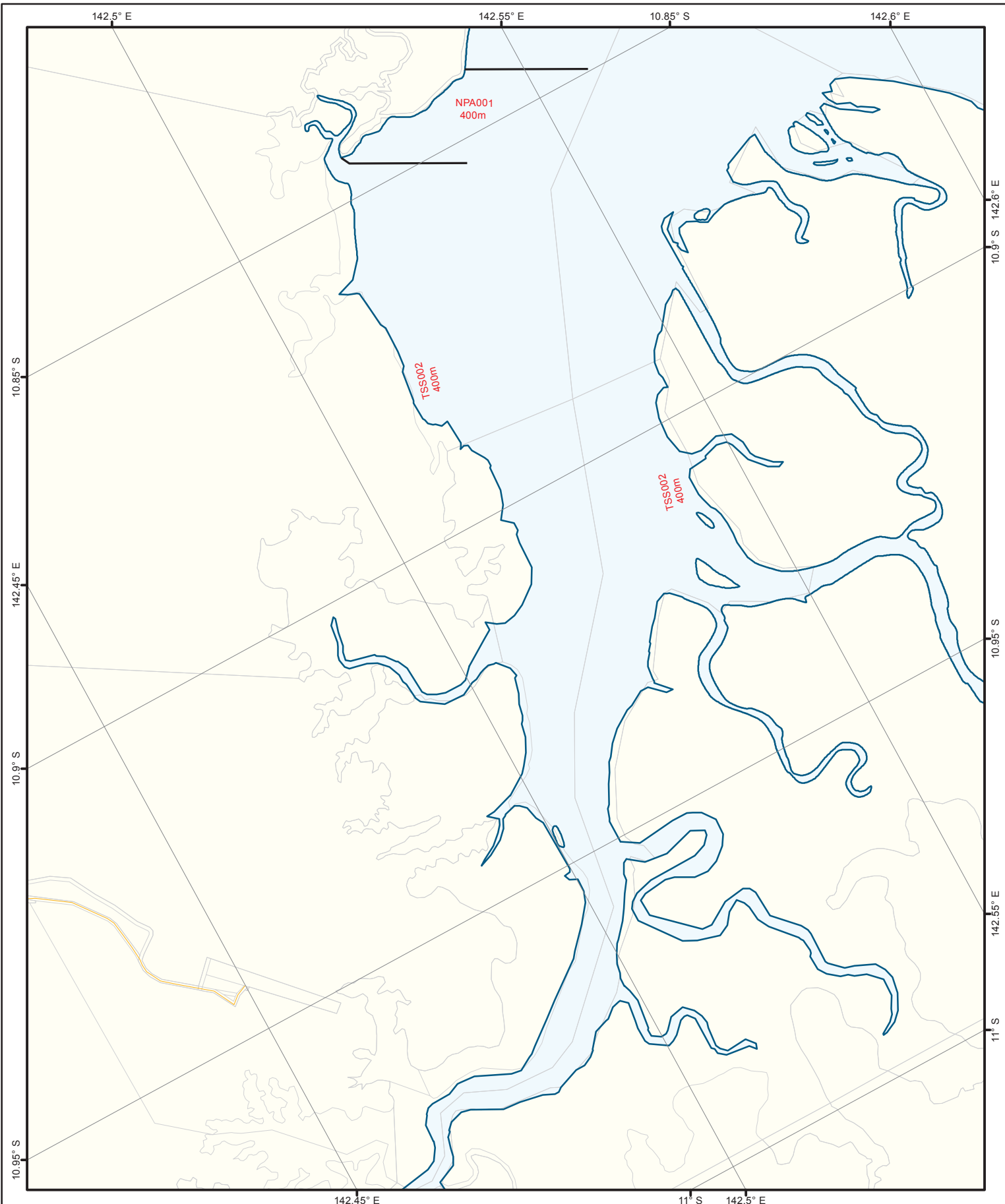
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



### TSS3A Map 2

Projection: Albers. Datum: GDA 1994.





### Erosion Prone Area Linear Distances and their Locations for Torres Shire Local Government Area

**Note:**  
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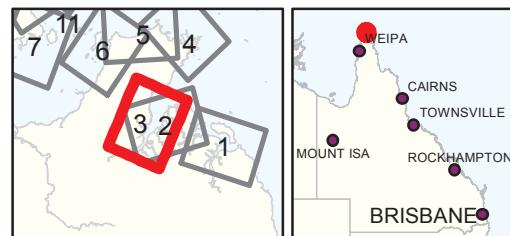
**TSS006** Segment number and linear distance for erosion prone area  
**100m**

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

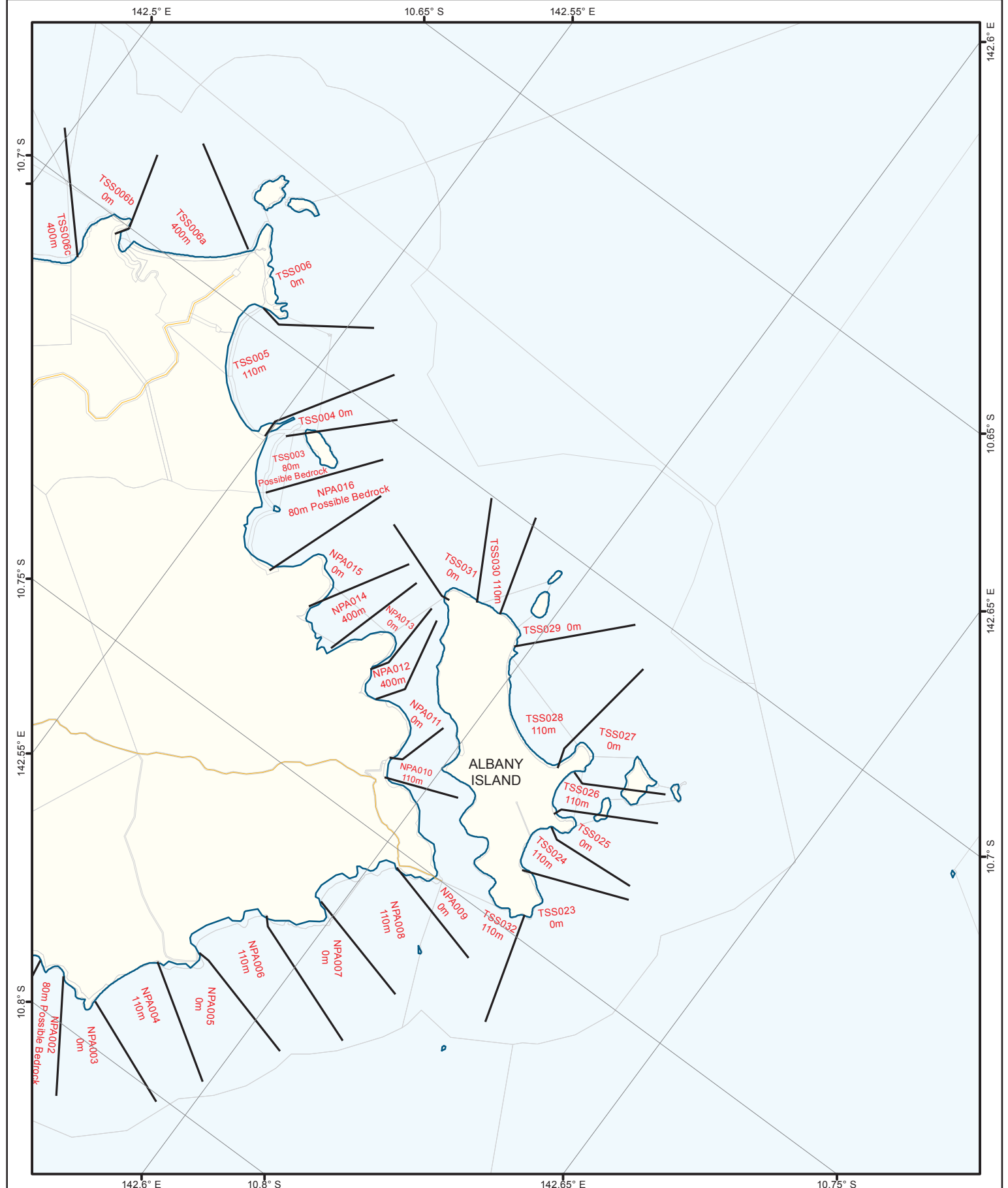


### TSS3A Map 3

Projection: Albers. Datum: GDA 1994.







### Erosion Prone Area Linear Distances and their Locations for Torres Shire Local Government Area

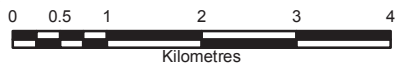
### TSS3A Map 4

**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.

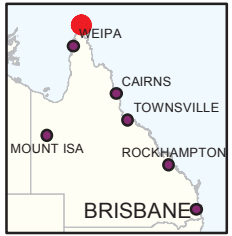
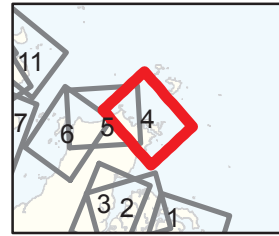
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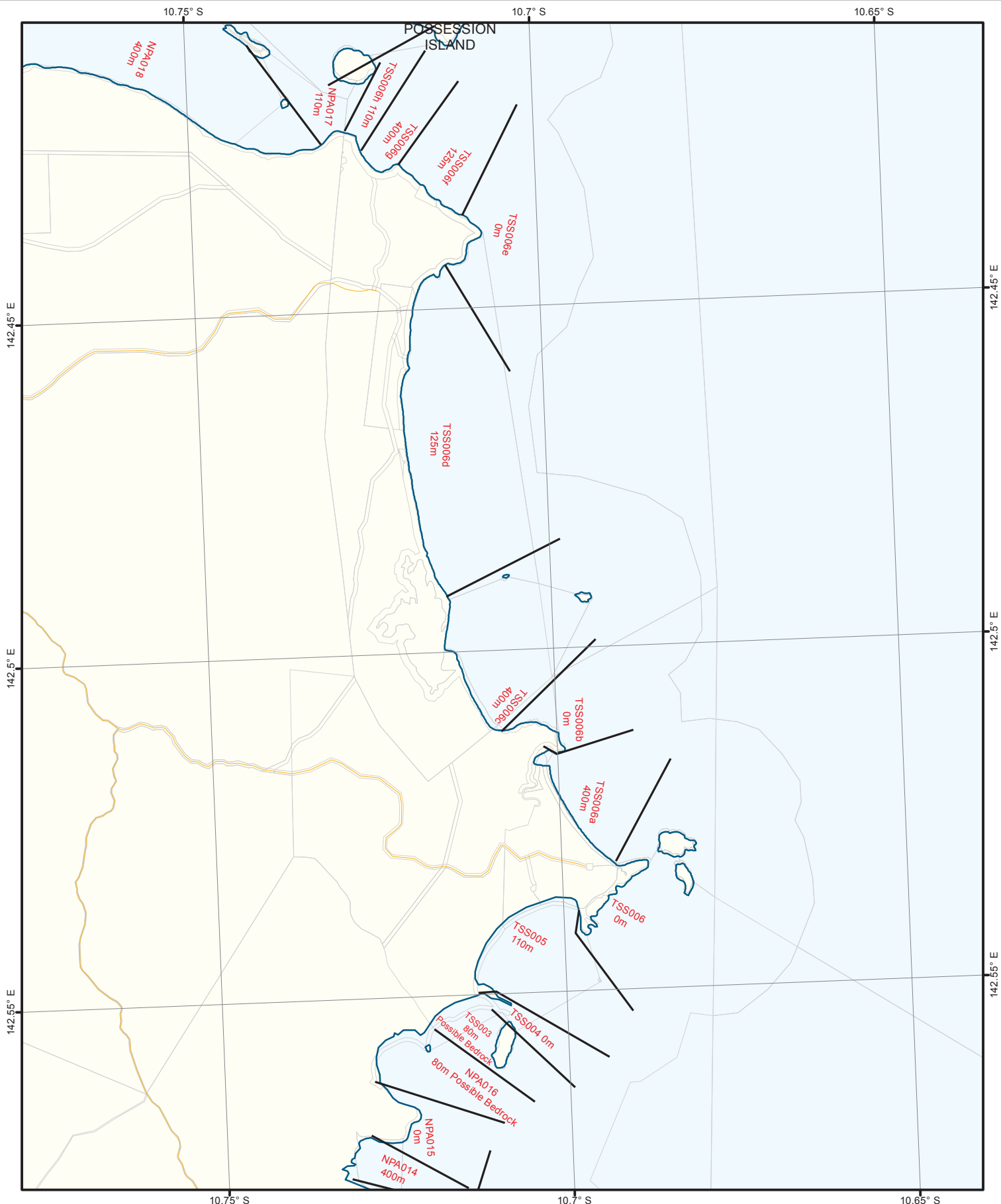
**TSS006** Segment number and linear distance for erosion prone area  
**100m**

- 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 Torres Shire Local Government Area

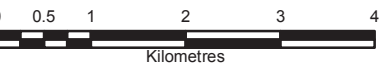
### TSS3A Map 5

**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.

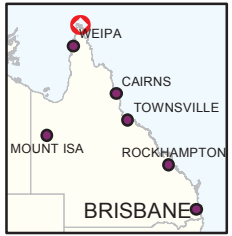
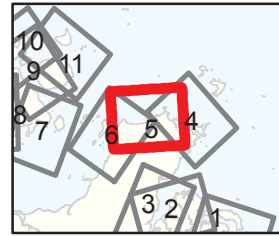
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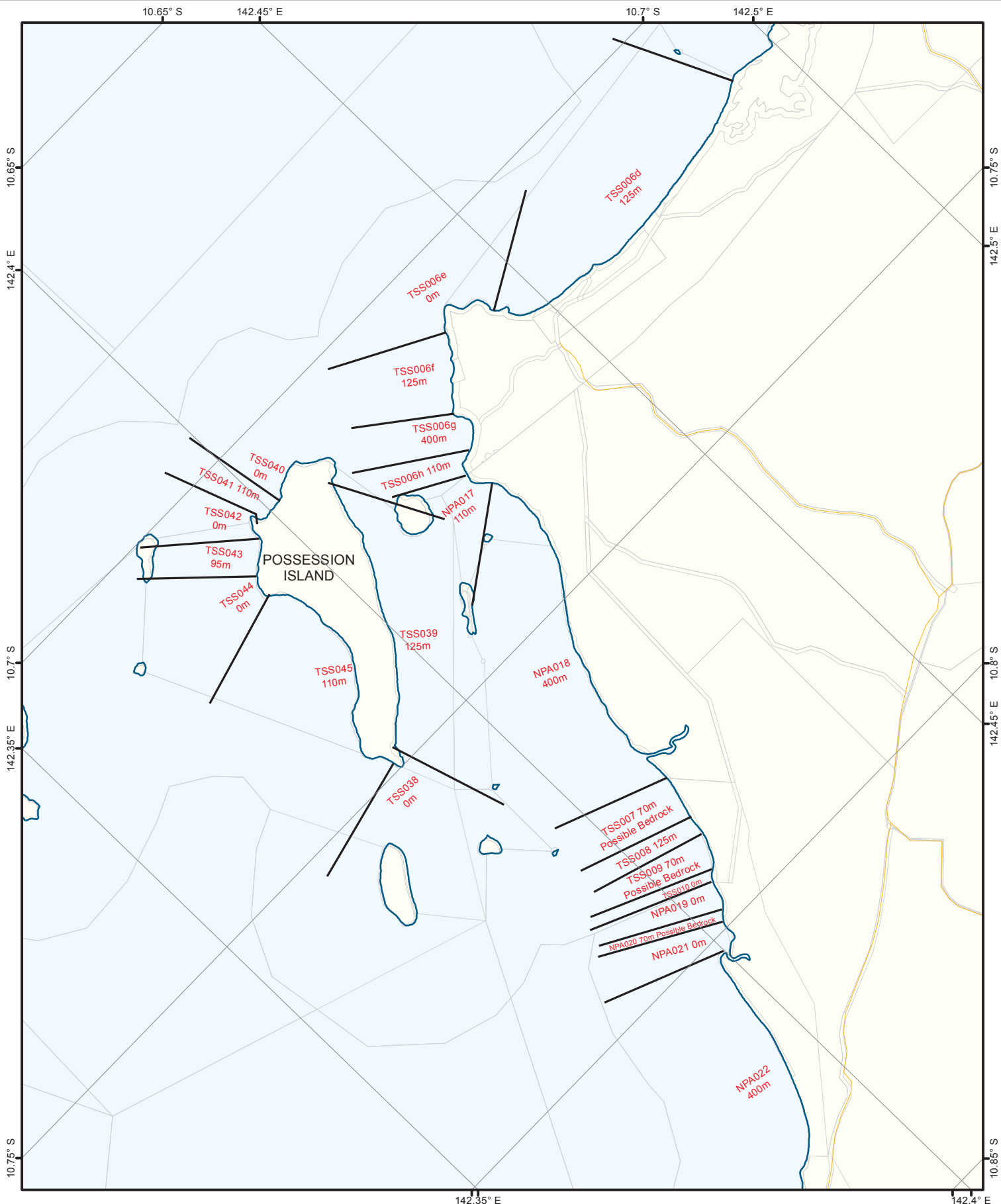
**TSS006** Segment number and linear distance for erosion prone area

- 100m
- 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 Torres Shire Local Government Area

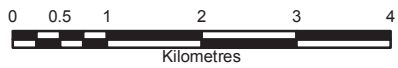
### TSS3A Map 6

**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.

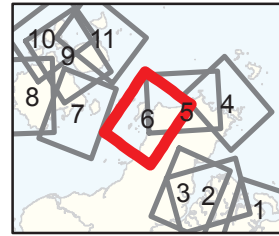
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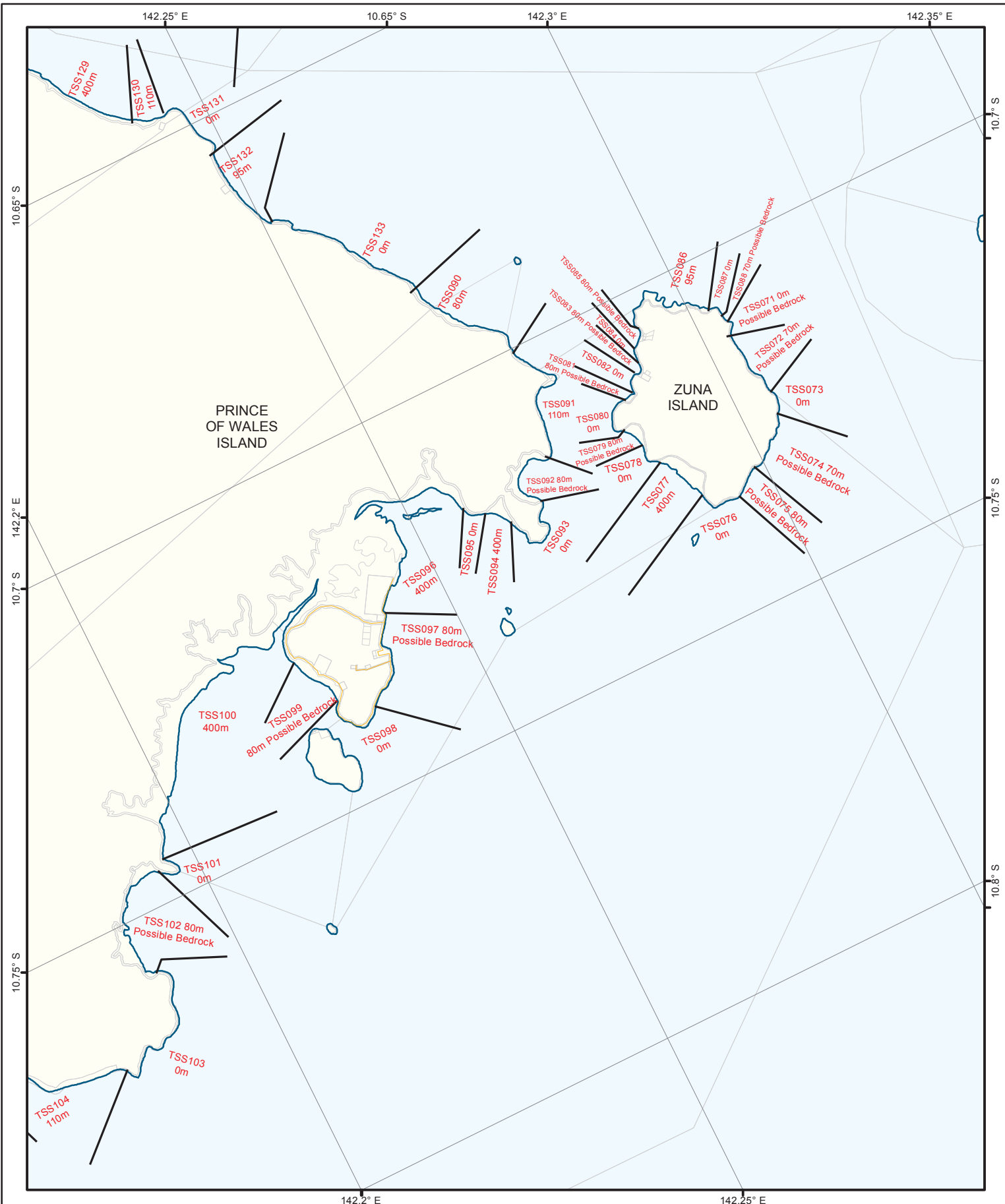
**TSS006** Segment number and linear distance for erosion prone area  
**100m**

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



Projection: Albers. Datum: GDA 1994.









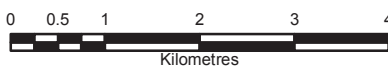
### Erosion Prone Area Linear Distances and their Locations for Torres Shire Local Government Area

**Note:**  
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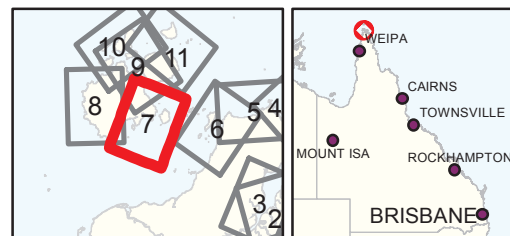
**TSS006** Segment number and linear distance for erosion prone area

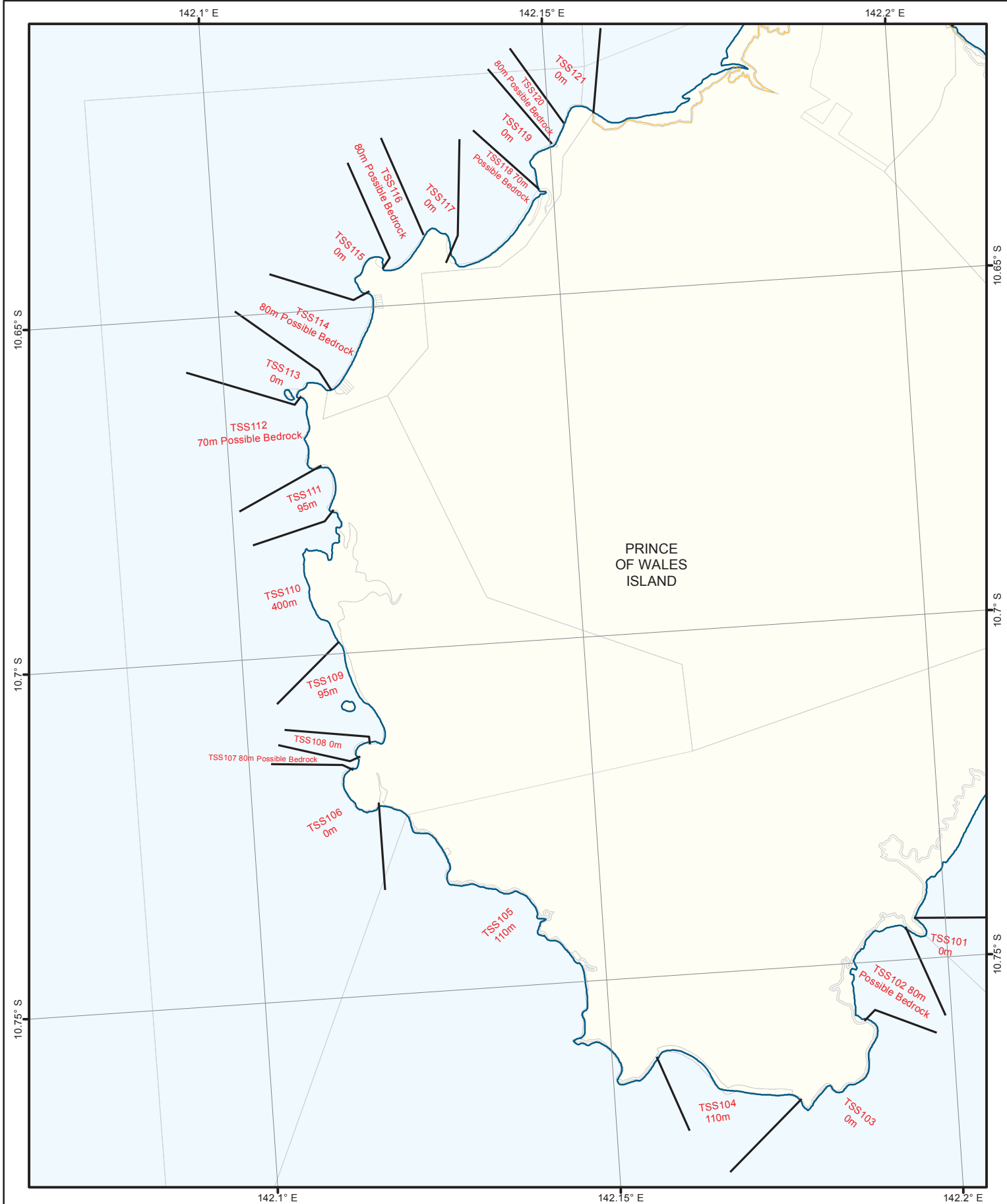
-  Erosion Prone Area segment start/stop location
-  Roads
-  Queensland coast
-  Cadastral boundaries



### TSS3A Map 7

Projection: Albers. Datum: GDA 1994.









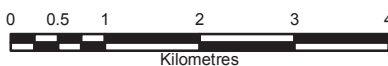
### Erosion Prone Area Linear Distances and their Locations for Torres Shire Local Government Area

**Note:**  
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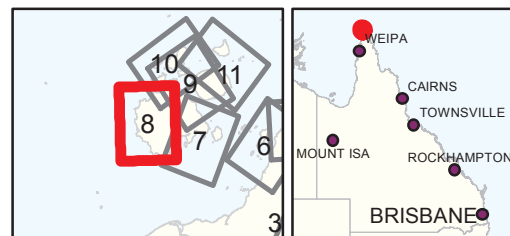
**TSS006** Segment number and linear distance for erosion prone area

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

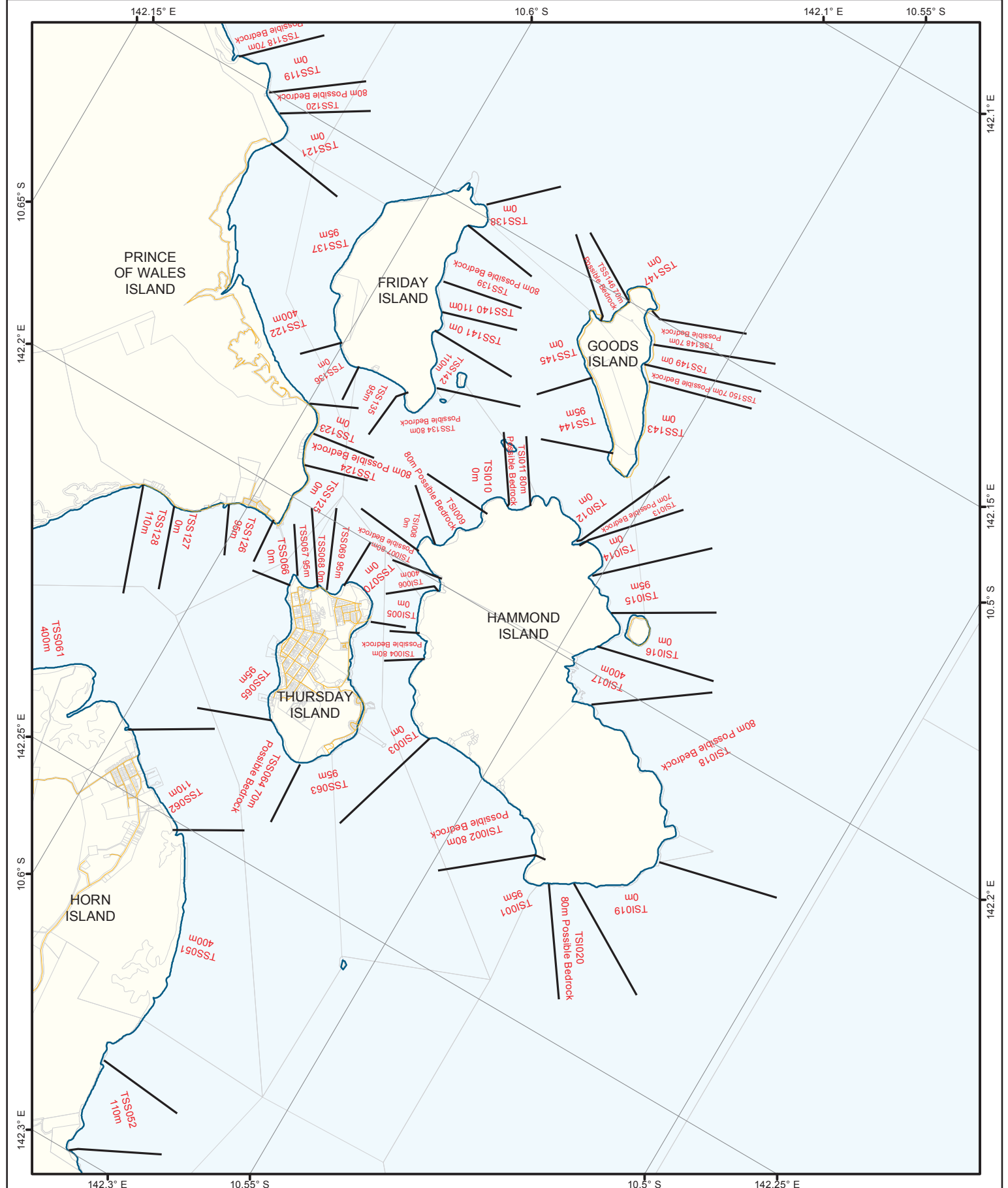


### TSS3A Map 8

Projection: Albers. Datum: GDA 1994.







### Erosion Prone Area Linear Distances and their Locations for Torres Shire Local Government Area

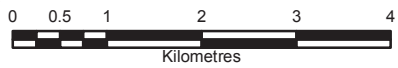
### TSS3A Map 10

**Note:**  
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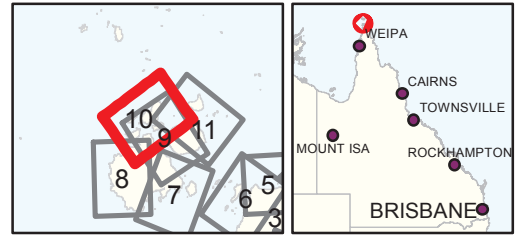
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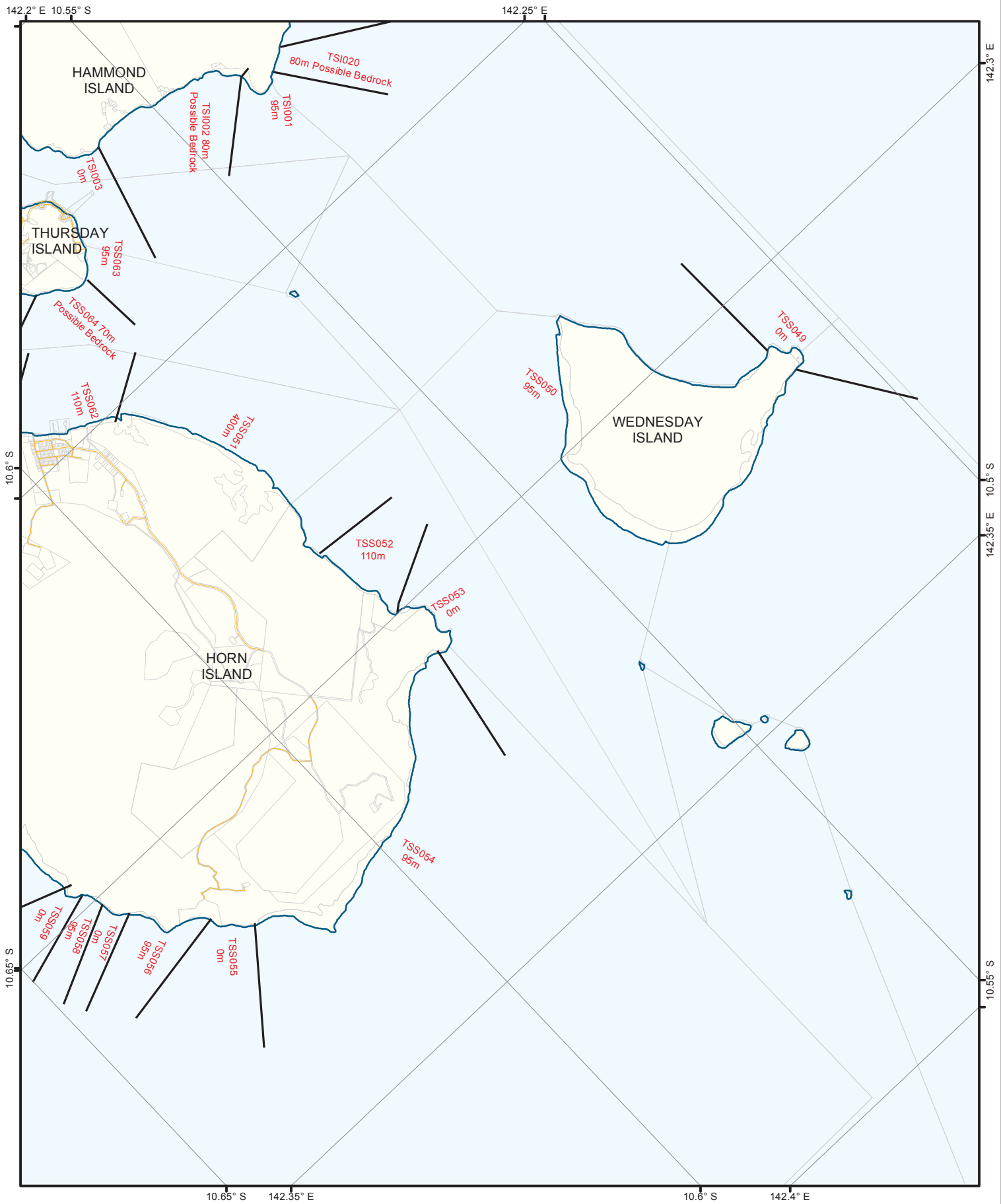
**TSS006** Segment number and linear distance for erosion prone area

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



Projection: Albers. Datum: GDA 1994.





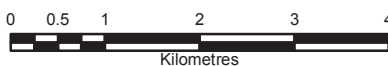
### Erosion Prone Area Linear Distances and their Locations for Torres Shire Local Government Area

**Note:**  
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**TSS006** Segment number and linear distance for erosion prone area

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



### TSS3A Map 11

Projection: Albers. Datum: GDA 1994.

