Erosion Prone Area Livingstone Shire 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	Plan No:
Date of Erosion Prone Area Amendment:	LIS3A

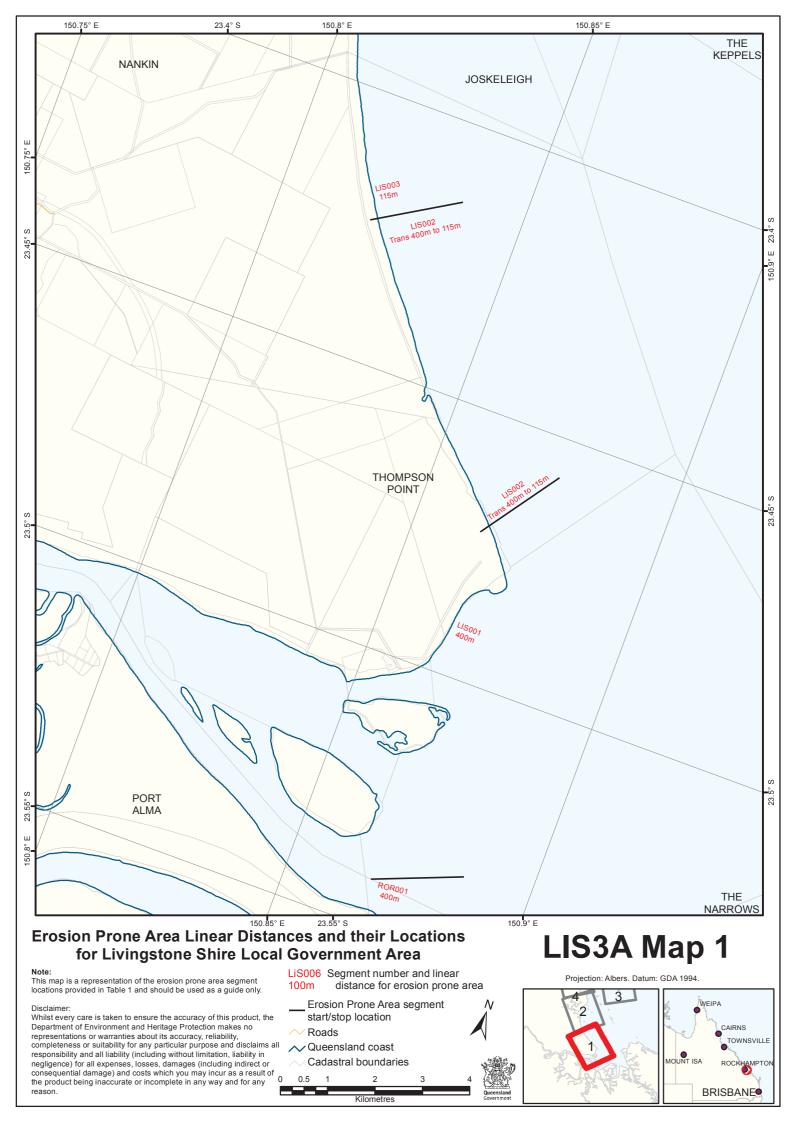
LIS3A Table 1: Linear distances for the erosion prone area and the specific location of each segment

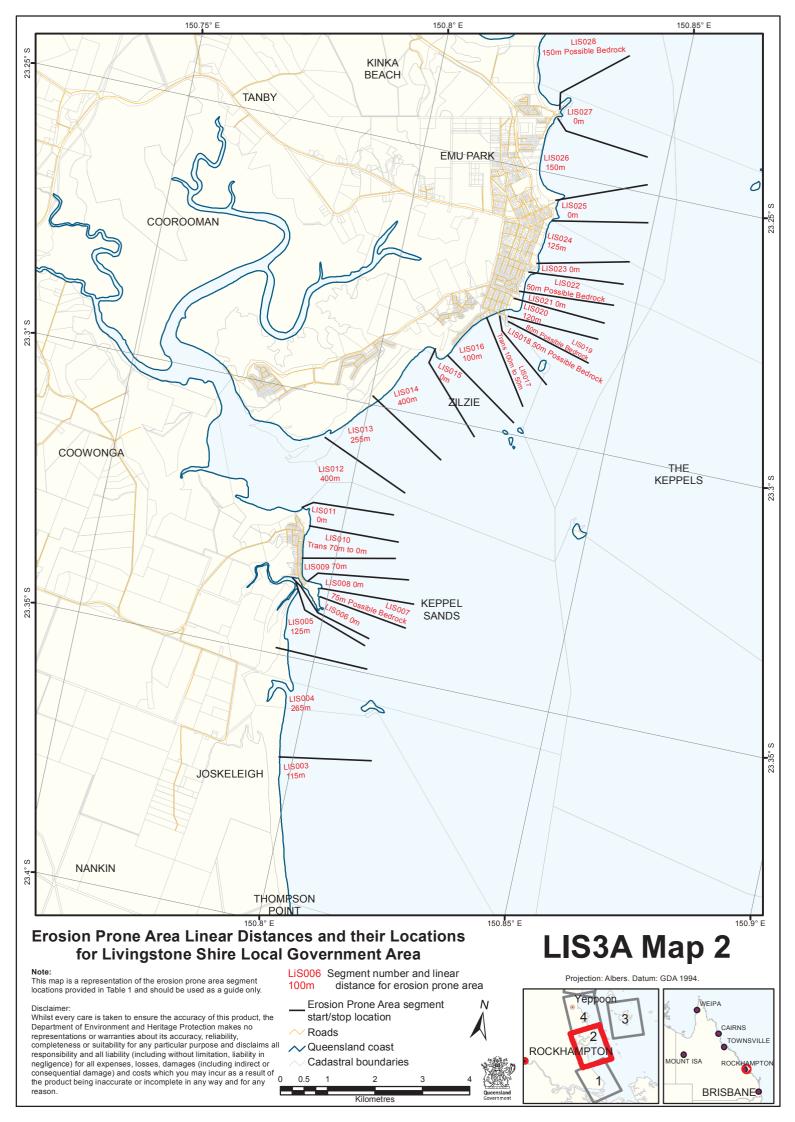
Erosion prone area segment number	Segment start longitude (degrees)	Segment start latitude (degrees)	Segment end longitude (degrees)	Segment end latitude (degrees)	Erosion prone area linear distance (Width in metres)
LISO01	150.86765	-23.54113	150.86394	-23.47217	400m
LISO02	150.86394	-23.47217	150.81990	-23.42384	Trans 400m to 115m
LIS003	150.81990	-23.42384	150.79701	-23.36908	115m
LIS004	150.79701	-23.36908	150.79166	-23.34884	265m
LISO05	150.79166	-23.34884	150.79290	-23.33596	125m
LISO06	150.79190	-23.33522	150.79835	-23.33773	0m
LIS007	150.79835	-23.33773	150.79818	-23.33610	75m Possible Bedrock
LIS008	150.79818	-23.33610	150.79525	-23.33539	0m
LISO09	150.79525	-23.33539	150.79308	-23.33130	70m
LIS010	150.79308	-23.33130	150.79309	-23.32499	Trans 70m to 0m
LIS011	150.79309	-23.32499	150.79079	-23.32192	0m
LIS012	150.79079	-23.32192	150.79246	-23.30795	400m
LISO13	150.79246	-23.30795	150.80035	-23.29834	255m
LIS014	150.80035	-23.29834	150.81117	-23.28709	400m
LISO15	150.81117	-23.28709	150.81390	-23.28787	0m
LISO16	150.81390	-23.28787	150.82010	-23.27926	100m
LIS017	150.82010	-23.27926	150.82274	-23.27850	Trans 100m to 50m
LIS018	150.82274	-23.27850	150.82470	-23.27921	50m Possible Bedrock
LISO19	150.82470	-23.27921	150.82444	-23.27831	80m Possible Bedrock
LISO20	150.82444	-23.27831	150.82482	-23.27472	120m
LIS021	150.82482	-23.27472	150.82566	-23.27321	0m
LIS022	150.82566	-23.27321	150.82670	-23.26927	50m Possible Bedrock
LIS023	150.82670	-23.26927	150.82792	-23.26734	0m
LIS024	150.82792	-23.26734	150.82927	-23.25885	125m
LIS025	150.82927	-23.25885	150.82908	-23.25491	0m
LIS026	150.82908	-23.25491	150.82592	-23.23959	150m
LIS027	150.82592	-23.23959	150.82599	-23.23794	0m
LIS028	150.82599	-23.23794	150.81951	-23.22388	150m Possible Bedrock
LIS029	150.81951	-23.22388	150.81687	-23.22189	0m
LIS030	150.81687	-23.22189	150.80031	-23.22810	120m
LIS031	150.80031	-23.22810	150.79731	-23.22587	400m
LIS032	150.79731	-23.22587	150.79619	-23.22196	125m
LIS033	150.79619	-23.22196	150.78919	-23.20690	230m
LIS034	150.78919	-23.20690	150.78851	-23.20046	125m
LIS035	150.78907	-23.19924	150.79193	-23.19609	0m
LIS036	150.79193	-23.19609	150.79460	-23.18446	125m
LIS037	150.79460	-23.18446	150.79375	-23.17867	0m
LIS038	150.79375	-23.17867	150.79268	-23.16407	100m
LIS039	150.79268	-23.16407	150.78351	-23.16571	0m
LISO40	150.78351	-23.16571	150.77921	-23.16587	125m Possible Bedrock
LISO41	150.77921	-23.16587	150.77636	-23.16529	0m
LISO42	150.77636	-23.16529	150.76400	-23.14554	135m
LIS043	150.76400	-23.14554	150.76137	-23.14281	0m

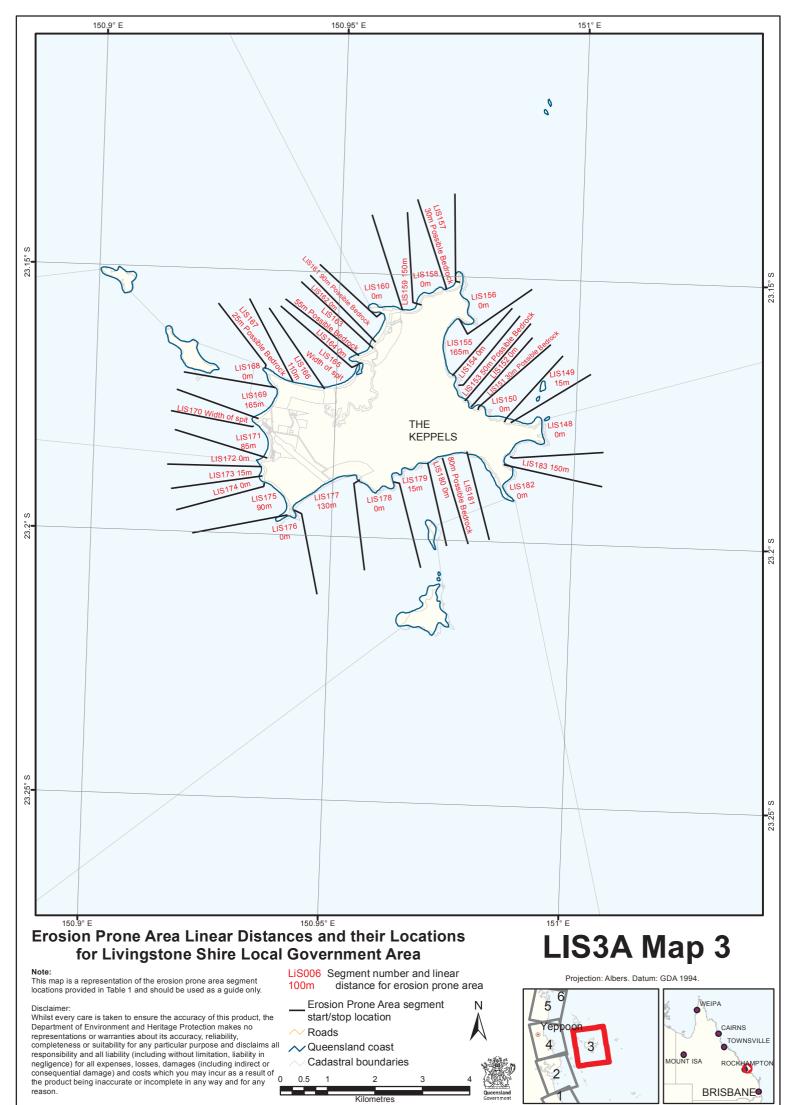
LISO45	150.76137	-23.14281			
	150.75912	-23.14025	150.75912 150.75487	-23.14025 -23.13891	135m Om
LISO46	150.75487	-23.14023	150.75487	-23.13668	50m Possible Bedrock
	150.75487	-23.13668	150.75192	-23.13008	100m
ł – – – – – – – – – – – – – – – – – – –	150.74961	-23.13008	150.74901	-23.12592	0m
ł – – – – – – – – – – – – – – – – – – –	150.74901	-23.12633		-23.12392	115m
ł – – – – – – – – – – – – – – – – – – –	150.74978	-23.12392	150.75139 150.75121	-23.10570	185m
	150.75139	-23.10809	150.75121		255m
			150.75317	-23.10103	
	150.75317	-23.10103		-23.05496	115m
H	150.77153	-23.05496	150.77752	-22.96398	150m
H	150.77752	-22.96398	150.78662	-22.92389	400m
H	150.78662	-22.92389	150.79294	-22.94272	0m
	150.79294	-22.94272	150.79335	-22.93528	110m
H	150.79335	-22.93528	150.78926	-22.92605	0m
	150.78926	-22.92605	150.80396	-22.81579	165m
	150.80396	-22.81579	150.80648	-22.80637	0m
	150.80648	-22.80637	150.80737	-22.80352	110m
	150.80737	-22.80352	150.80743	-22.80277	0m
	150.80743	-22.80277	150.80785	-22.80113	110m
	150.80785	-22.80113	150.80848	-22.79880	0m
	150.80848	-22.79880	150.80774	-22.77439	165m
	150.17507	-22.35610	150.18038	-22.33958	115m
	150.18038	-22.33958	150.18775	-22.33532	75m Possible Bedrock
	150.18775	-22.33532	150.19165	-22.32529	145m
	150.19165	-22.32529	150.19233	-22.32539	75m Possible Bedrock
	150.19233	-22.32539	150.17833	-22.31305	145m
	150.17833	-22.31305	150.17704	-22.31321	75m Possible Bedrock
	150.17704	-22.31321	150.16685	-22.30702	130m
	150.16685	-22.30702	150.16155	-22.30751	75m Possible Bedrock
	150.16155	-22.30751	150.15622	-22.30090	100m
	150.15622	-22.30090	150.15665	-22.29575	400m
	150.15665	-22.29575	150.15883		75m Possible Bedrock
	150.15883	-22.29373	150.15678	-22.28950	130m
	150.15680	-22.28950	150.15744	-22.28580	75m Possible Bedrock
	150.15743	-22.28580	150.15502	-22.27864	130m
	150.15502	-22.27864	150.15469	-22.27820	0m
	150.15469	-22.27820	150.14985	-22.26166	130m
	150.14985	-22.26166	150.15035	-22.25897	0m
	150.15035	-22.25897	150.14742	-22.25662	130m
	150.14742	-22.25662	150.14559	-22.25548	0m
	150.14559	-22.25548	150.14298	-22.25346	130m
H	150.14298	-22.25346	150.14177	-22.25494	0m
LIS086	150.14177	-22.25494	150.13353	-22.25046	130m
-	150.13353	-22.25046	150.12806	-22.24877	0m
LIS088	150.12806	-22.24877	150.12199	-22.23876	130m
LIS089	150.12199	-22.23876	150.11959	-22.23814	0m
LIS090	150.11959	-22.23814	150.10790	-22.22477	130m
LIS091	150.10790	-22.22477	150.10330	-22.22247	75m Possible Bedrock
LIS092	150.10330	-22.22247	150.10022	-22.21226	400m
LIS093	150.10022	-22.21226	150.08780	-22.17860	145m
LIS094	150.08780	-22.17860	150.08702	-22.17082	130m
LIS095	150.08702	-22.17082	150.08633	-22.16875	0m

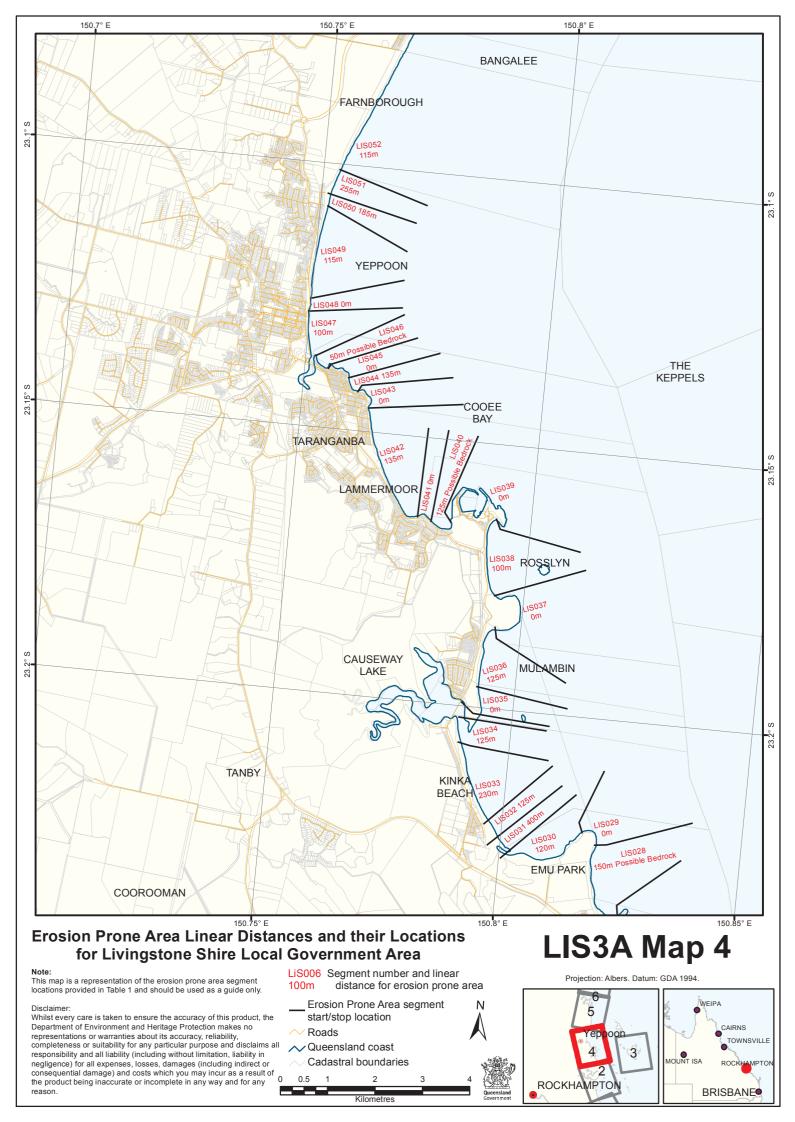
LIS096	150.08633	-22.16875	150.08136	-22.15985	130m
LIS097	150.08136	-22.15985	150.08090	-22.15737	0m
LIS098	150.08090	-22.15737	150.07972	-22.15533	130m
LIS099	150.07972	-22.15533	150.07529	-22.15492	0m
LIS100	150.07529	-22.15492	150.06483	-22.14574	130m
LIS101	150.06483	-22.14574	150.06450	-22.14407	0m
LIS102	150.06450	-22.14407	150.06202	-22.13890	130m
LIS103	150.06202	-22.13890	150.05829	-22.13554	75m Possible Bedrock
LIS104	150.05829	-22.13554	150.04644	-22.13021	130m
LIS105	150.04644	-22.13021	150.04435	-22.12835	Seaward of base of cliff
LIS106	150.04435	-22.12835	150.04196	-22.12832	75m Possible Bedrock
LIS107	150.03493	-22.11345	150.02959	-22.11003	0m
LIS108	150.03493	-22.11345	150.01699	-22.10778	75m Possible Bedrock
LIS109	150.01699	-22.10778	150.01458	-22.10571	130m
LIS110	150.01458	-22.10571	150.01290	-22.10338	0m
LIS111	150.01290	-22.10338	150.01116	-22.10205	130m
LIS112	150.01116	-22.10205	150.00678	-22.10356	75m Possible Bedrock
LIS113	150.00678	-22.10356	150.00424	-22.10596	400m
LIS114	150.00424	-22.10596	150.00314	-22.10834	0m
LIS115	150.00314	-22.10834	149.99605	-22.11703	400m
LIS116	149.99605	-22.11703	149.98958	-22.11672	0m
LIS117	149.98958	-22.11672	149.97419	-22.12907	75m Possible Bedrock
LIS118	149.97417	-22.12907	149.96080	-22.13356	100m
LIS119	149.96080	-22.13356	149.95215	-22.13462	75m Possible Bedrock
LIS120	149.95215	-22.13462	149.93408	-22.15242	400m
LIS121	149.94302	-22.13422	149.94302	-22.13422	75m Possible Bedrock
LIS122	149.92968	-22.13925	149.92840	-22.13241	75m Possible Bedrock
LIS123	149.92840	-22.13241	149.92025	-22.12769	100m
LIS124	149.92025	-22.12769	149.92010	-22.12513	75m Possible Bedrock
LIS125	149.92010	-22.12513	149.91585	-22.11454	115m
LIS126	149.91585	-22.11454	149.91724	-22.11128	75m Possible Bedrock
LIS127	149.91724	-22.11128	149.91405	-22.10601	100m
LIS128	149.91405	-22.10601	149.91355	-22.10420	75m Possible Bedrock
LIS129	149.91355	-22.10420	149.90746	-22.09568	115m
LIS130	149.90746	-22.09568	149.90763	-22.08984	400m
LIS131	149.90763	-22.08984	149.90512	-22.08143	115m
LIS132	149.90512	-22.08143	149.90367	-22.07934	0m
LIS133	149.90374	-22.07934	149.90464	-22.07510	100m
LIS134	149.90464	-22.07510	149.90555	-22.07044	0m
LIS135	149.90555	-22.07044	149.90552	-22.06511	130m
LIS136	149.90552	-22.06511	149.90857	-22.06242	0m
LIS137	149.90857	-22.06242	149.90898	-22.05973	130m
LIS138	149.90898	-22.05973	149.90806	-22.05547	75m Possible Bedrock
LIS139	149.90806	-22.05547	149.90645	-22.05315	0m
LIS140	149.90645	-22.05315	149.90312	-22.05345	130m
LIS141	149.90312	-22.05345	149.89461	-22.05767	0m
LIS142	149.89461	-22.05767	149.88247	-22.07151	75m Possible Bedrock
LIS143	149.88247	-22.07150	149.88566	-22.07827	400m
LIS144	149.88566	-22.07827	149.88028	-22.09300	75m Possible Bedrock
LIS145	149.88028	-22.09300	149.87856	-22.09927	400m
LIS146	149.87856	-22.09927	149.86991	-22.12030	75m Possible Bedrock
LIS147	149.86991	-22.12030	149.80690	-22.38500	400m
	5.00551		5.5555		- ****

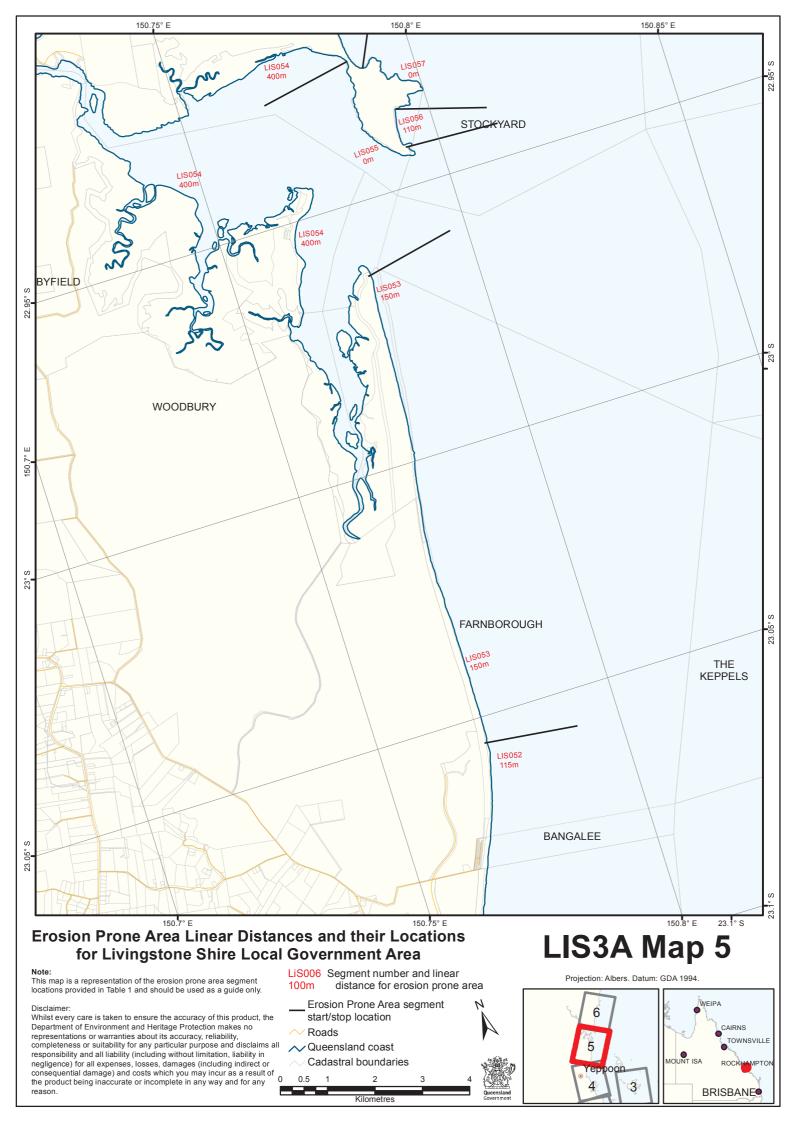
LIS148	150.98660	-23.18372	150.98648	-23.17729	0m
LIS149	150.98648	-23.17729	150.98517	-23.17723	15m
LIS150	150.98517	-23.17723	150.97962	-23.17511	0m
LIS151	150.97962	-23.17511	150.97811	-23.17463	30m Possible Bedrock
LIS152	150.97811	-23.17463	150.97679	-23.17350	0m
LIS153	150.97679	-23.17350	150.97537	-23.17054	50m Possible Bedrock
LIS154	150.97537	-23.17054	150.97398	-23.16879	0m
LIS155	150.97398	-23.16879	150.97498	-23.15794	165m
LIS156	150.97498	-23.15794	150.97494	-23.15106	0m
LIS157	150.97494	-23.15106	150.97199	-23.15245	30m Possible Bedrock
LIS158	150.97199	-23.15245	150.96712	-23.15559	0m
LIS159	150.96712	-23.15559	150.96319	-23.15675	150m
LIS160	150.96319	-23.15675	150.95880	-23.15739	0m
LIS161	150.95880	-23.15739	150.95783	-23.16296	90m Possible Bedrock
LIS162	150.95783	-23.16296	150.95732	-23.16412	0m
LIS163	150.95732	-23.16412	150.95446	-23.16561	55m Possible Bedrock
LIS164	150.95446	-23.16561	150.95496	-23.16695	0m
LIS165	150.95496	-23.16695	150.94754	-23.17217	Width of spit
LIS166	150.94754	-23.17217	150.94091	-23.17096	110m
LIS167	150.94091	-23.17096	150.93505	-23.16872	25m Possible Bedrock
LIS168	150.93505	-23.16872	150.93738	-23.17223	0m
LIS169	150.93738	-23.17223	150.93409	-23.17822	165m
LIS170	150.93409	-23.17822	150.93309	-23.17963	Width of spit
LIS171	150.93309	-23.17963	150.93612	-23.18563	85m
LIS172	150.93612	-23.18563	150.93507	-23.18727	0m
LIS173	150.93507	-23.18727	150.93530	-23.18904	15m
LIS174	150.93530	-23.18904	150.93575	-23.19037	0m
LIS175	150.93575	-23.19037	150.94078	-23.19627	90m
LIS176	150.94078	-23.19627	150.94214	-23.19532	0m
LIS177	150.94214	-23.19532	150.95558	-23.18910	130m
LIS178	150.95558	-23.18910	150.96262	-23.18931	0m
LIS179	150.96262	-23.18931	150.96951	-23.18544	15m
LIS180	150.96951	-23.18544	150.97253	-23.18441	0m
LIS181	150.97253	-23.18441	150.97755	-23.18308	80m Possible Bedrock
LIS182	150.97755	-23.18308	150.98536	-23.18528	0m
LIS183	150.98536	-23.18528	150.98660	-23.18372	150m

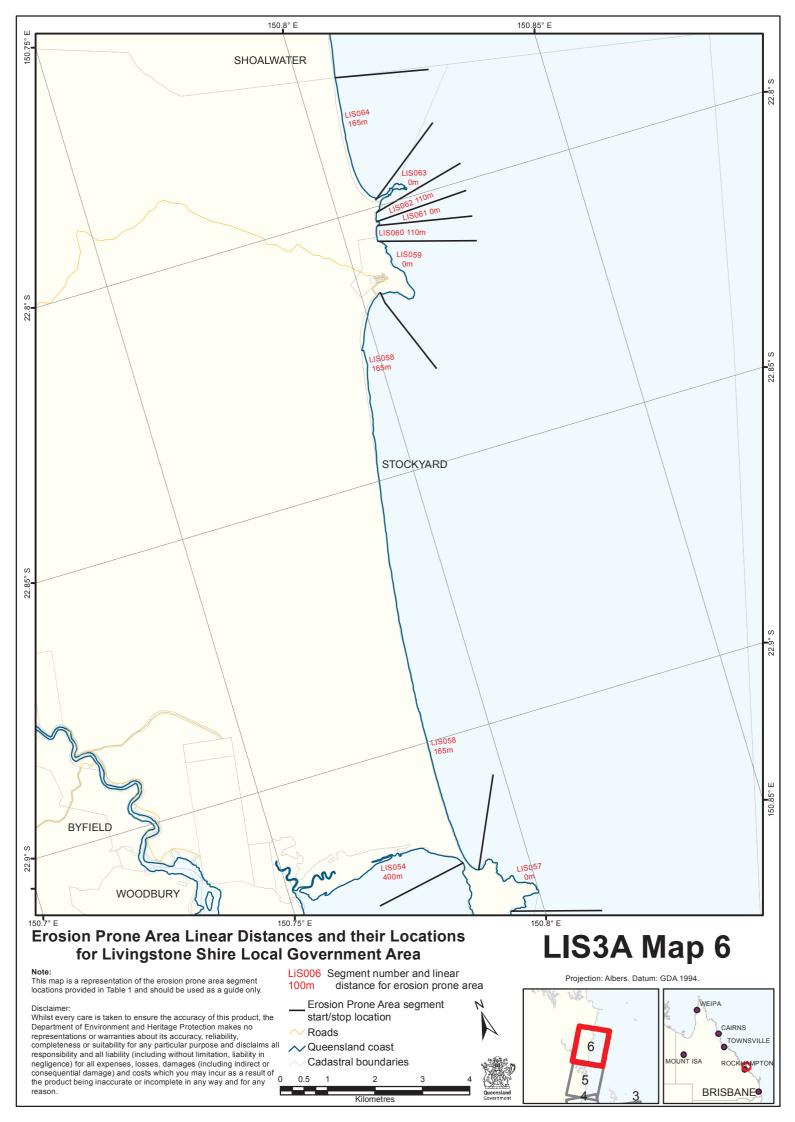


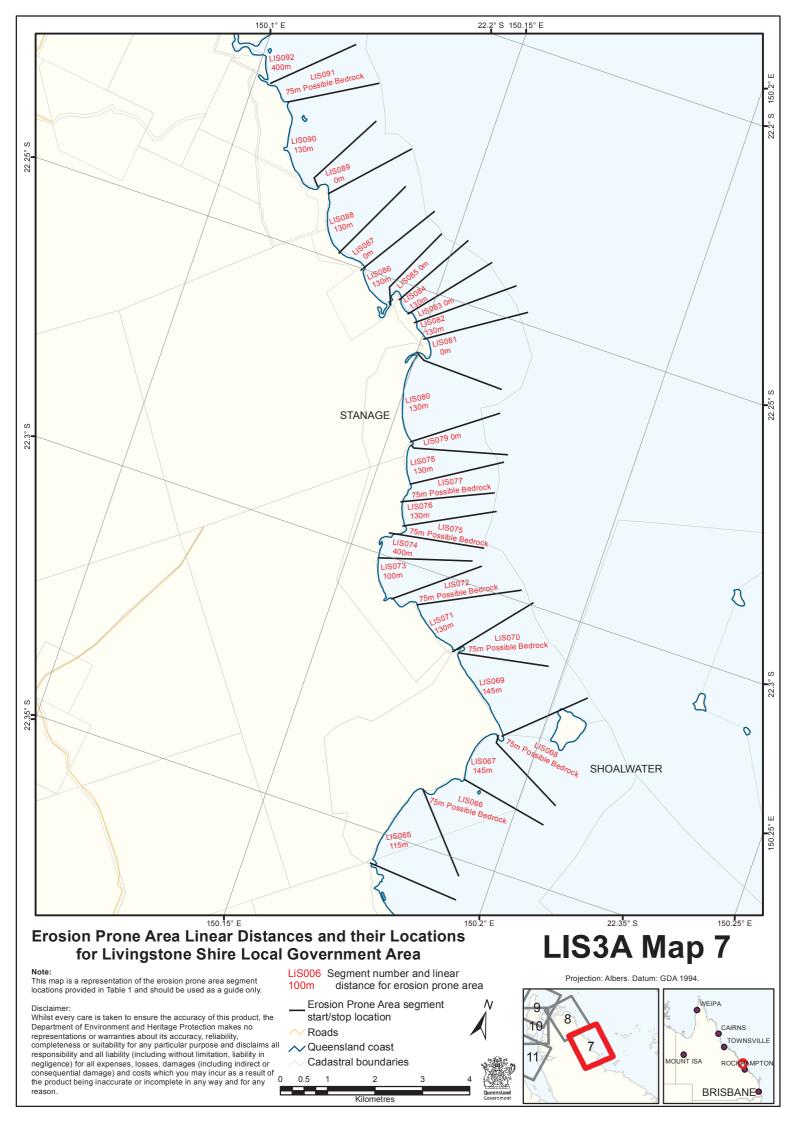


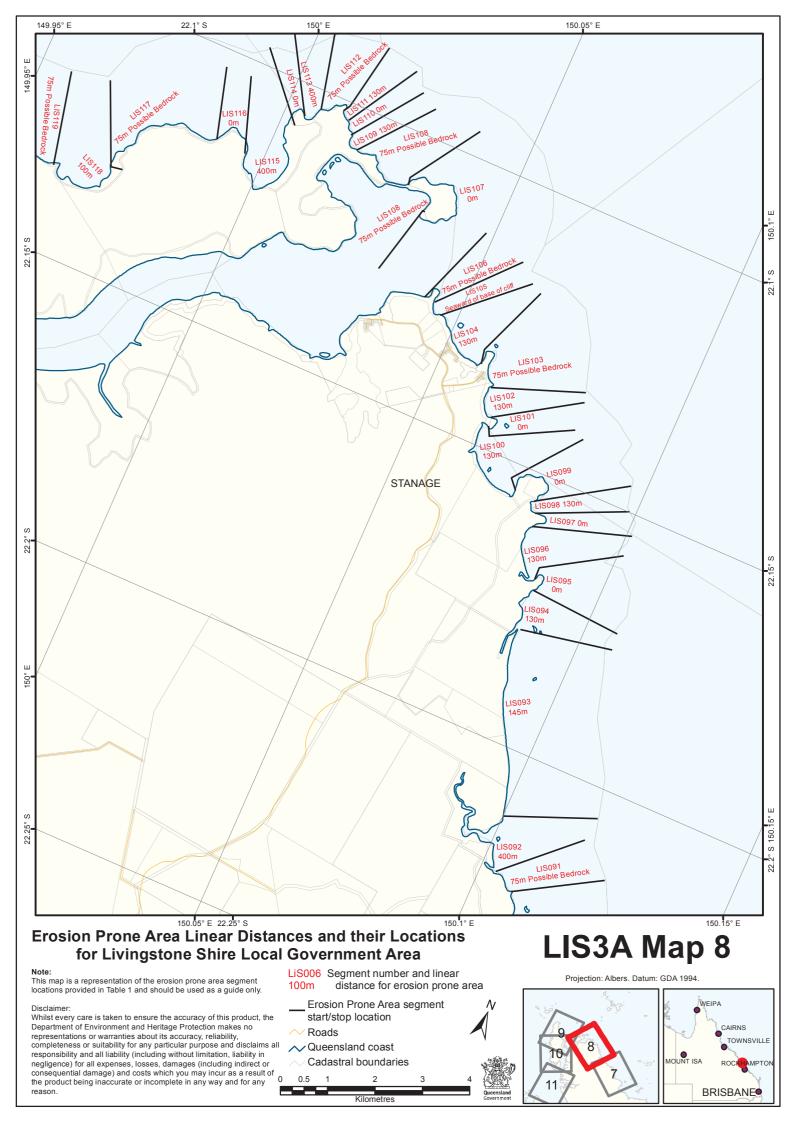


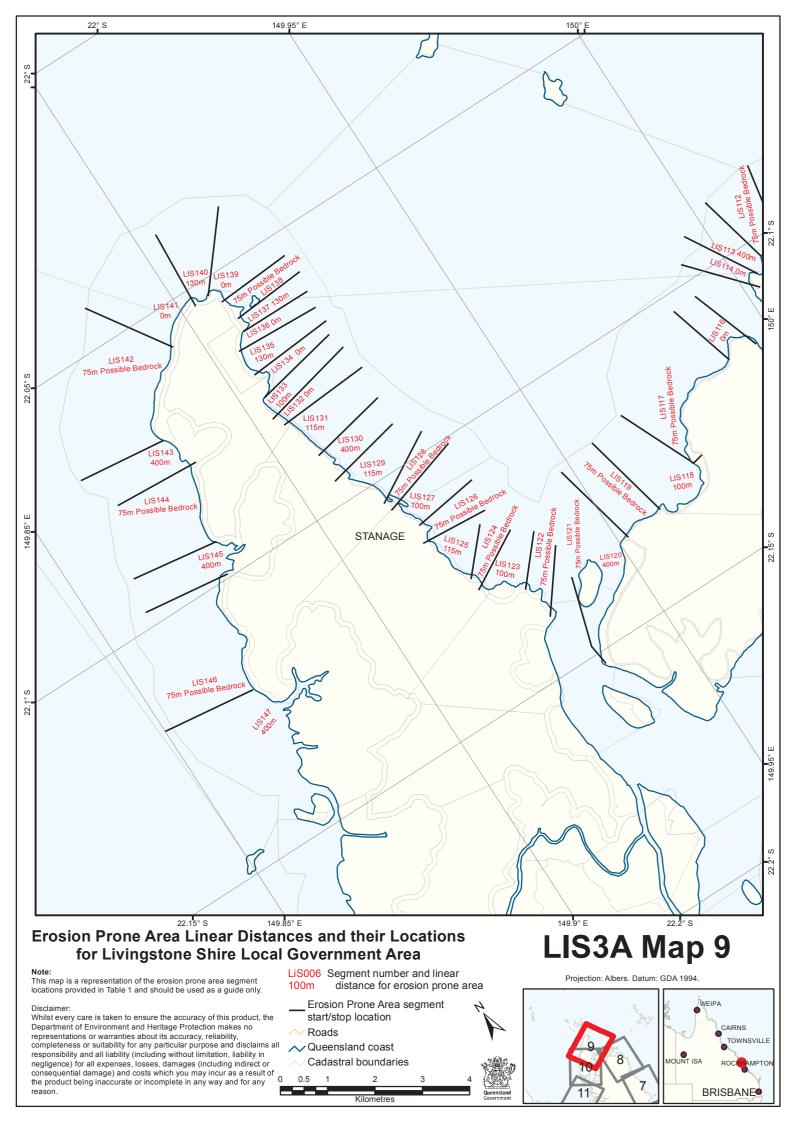


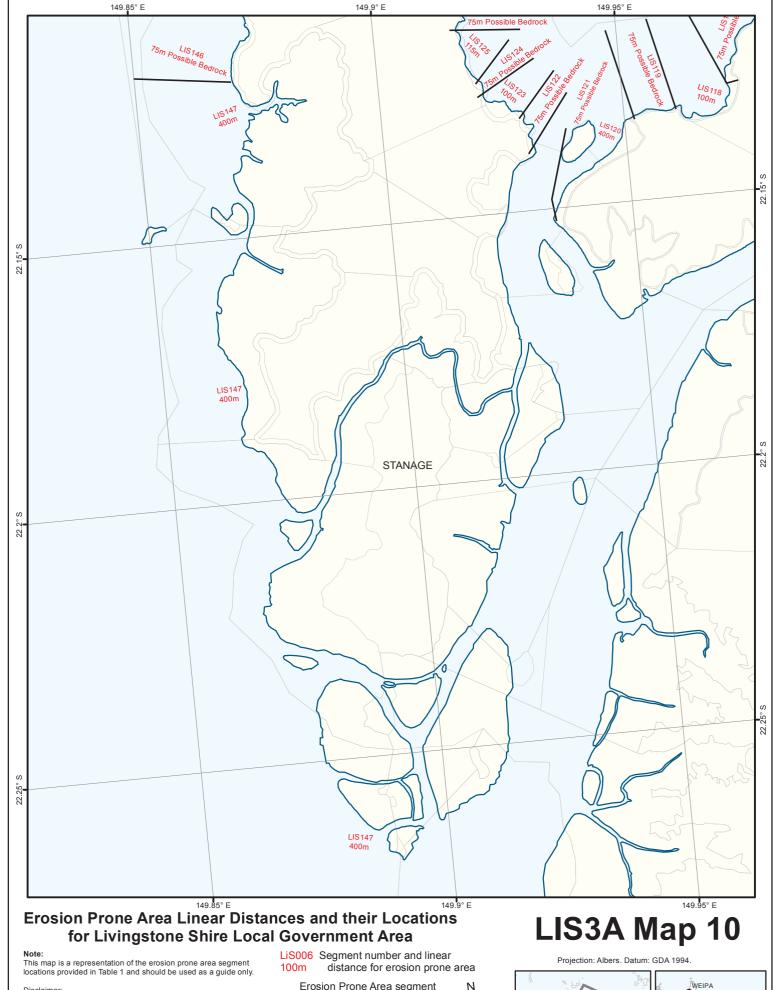












Disclaimer

Whilst every care is taken to ensure the accuracy of this product, the Department of Environment and Heritage Protection makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you may incur as a result of the product being inaccurate or incomplete in any way and for any

Erosion Prone Area segment start/stop location

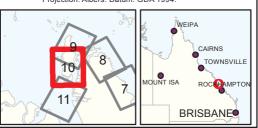
✓ Roads

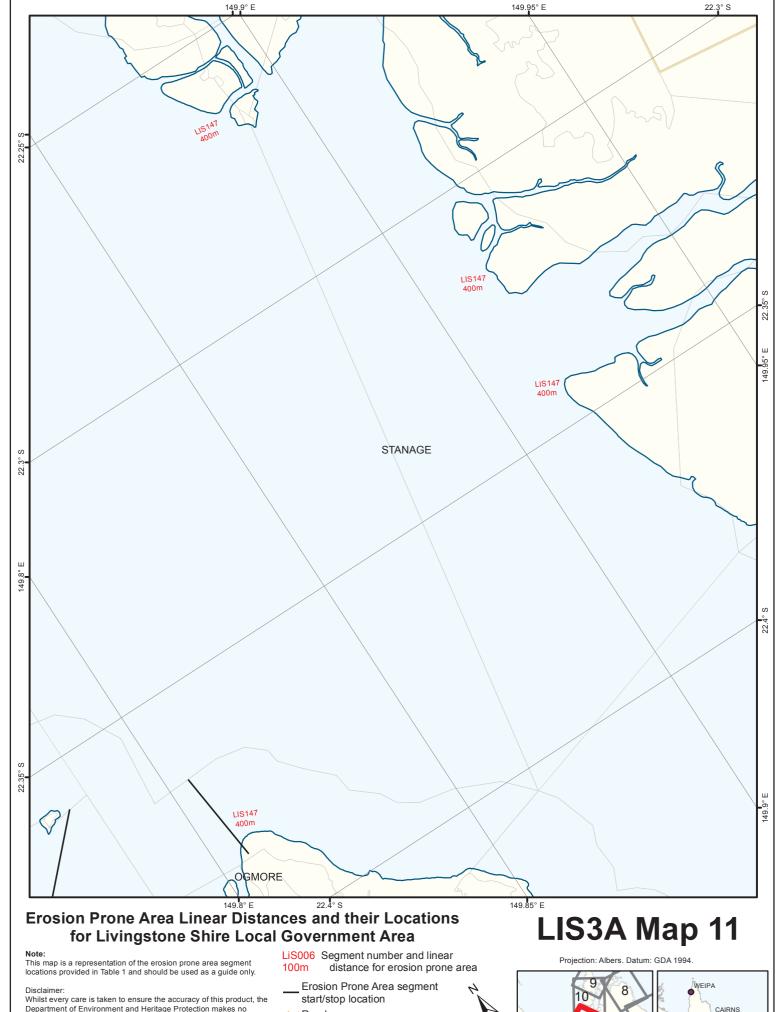
Queensland coast

Cadastral boundaries







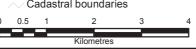


Department of Environment and Heritage Protection makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you may incur as a result of the product being inaccurate or incomplete in any way and for any

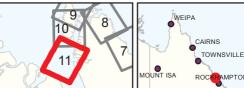
✓ Roads

Queensland coast

Cadastral boundaries







BRISBANE