

Erosion Prone Area

Cassowary Coast 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:

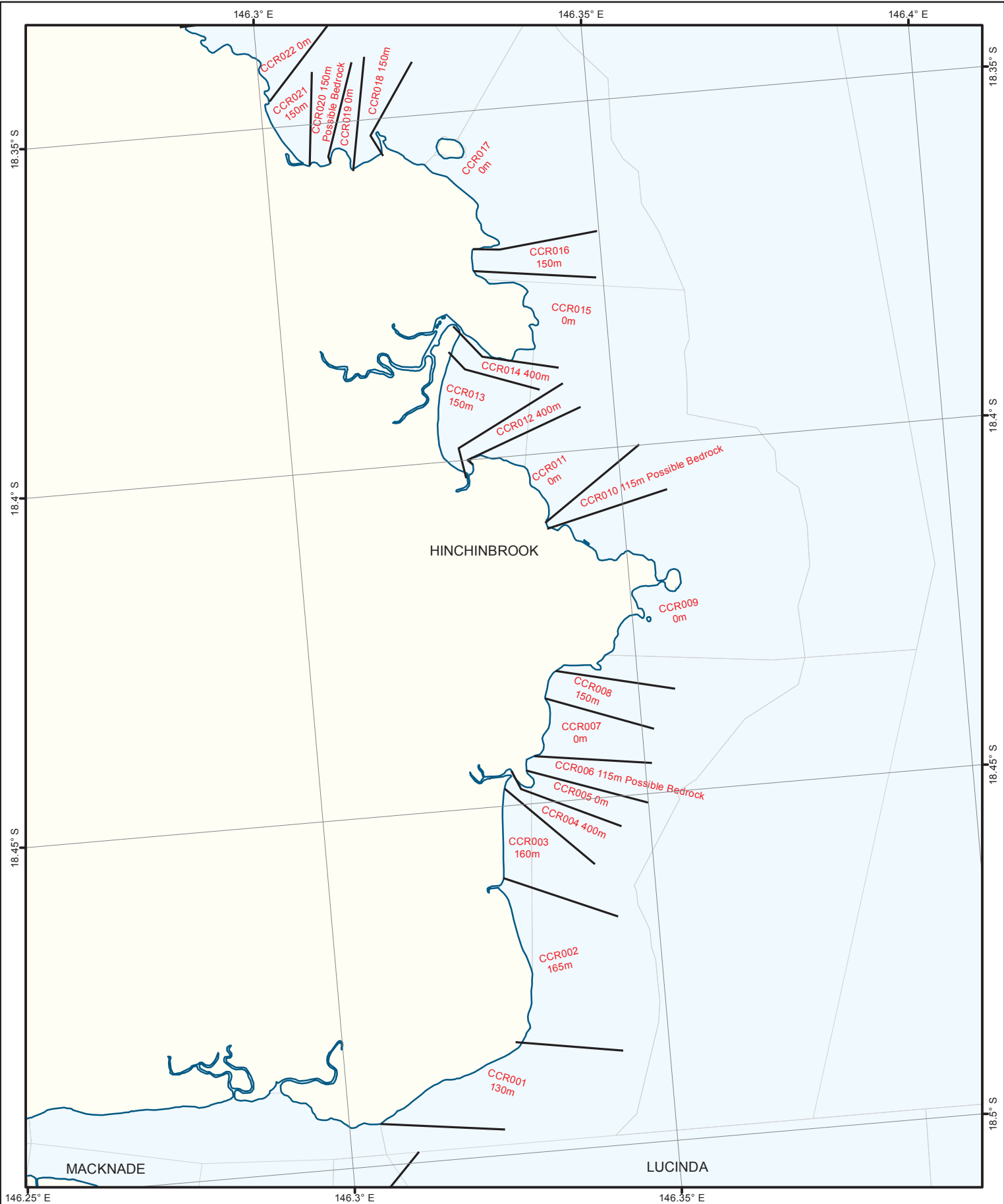
**Plan No:
CCR3A**

CCR3A 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)
CCR001	146.30473	-18.49400	146.32651	-18.48396	130m
CCR002	146.32651	-18.48396	146.32678	-18.46034	165m
CCR003	146.32678	-18.46034	146.32815	-18.44752	160m
CCR004	146.32815	-18.44752	146.32948	-18.44505	400m
CCR005	146.32948	-18.44505	146.33173	-18.44522	0m
CCR006	146.33173	-18.44522	146.33313	-18.44324	115m Possible Bedrock
CCR007	146.33313	-18.44324	146.33554	-18.43512	0m
CCR008	146.33554	-18.43512	146.33747	-18.43129	150m
CCR009	146.33747	-18.43129	146.33816	-18.41087	0m
CCR010	146.33816	-18.41087	146.33788	-18.40998	115m Possible Bedrock
CCR011	146.33788	-18.40998	146.32767	-18.40074	0m
CCR012	146.32767	-18.40074	146.32643	-18.40256	400m
CCR013	146.32643	-18.40256	146.32539	-18.38431	150m
CCR014	146.32539	-18.38431	146.32644	-18.38066	400m
CCR015	146.32644	-18.38066	146.33032	-18.37299	0m
CCR016	146.33032	-18.37299	146.33042	-18.36974	150m
CCR017	146.33042	-18.36974	146.31802	-18.35542	0m
CCR018	146.31802	-18.35542	146.31321	-18.35722	150m
CCR019	146.31321	-18.35722	146.30994	-18.35585	0m
CCR020	146.30994	-18.35585	146.30669	-18.35586	150m Possible Bedrock
CCR021	146.30669	-18.35586	146.30143	-18.34617	150m
CCR022	146.30143	-18.34617	146.28865	-18.33443	0m
CCR023	146.28865	-18.33443	146.28828	-18.33024	150m
CCR024	146.28828	-18.33024	146.28841	-18.32953	400m
CCR025	146.28841	-18.32953	146.27915	-18.32238	0m
CCR026	146.27915	-18.32238	146.29635	-18.24741	150m
CCR027	146.29635	-18.24741	146.30224	-18.23999	0m
CCR028	146.30224	-18.23999	146.30126	-18.23749	150m
CCR029	146.30126	-18.23749	146.28426	-18.23907	0m
CCR030	146.28426	-18.23907	146.28251	-18.23892	150m Possible Bedrock
CCR031	146.28251	-18.23892	146.25783	-18.23891	0m
CCR032	146.25783	-18.23891	146.25525	-18.23775	150m
CCR033	146.25525	-18.23775	146.25130	-18.23801	0m
CCR034	146.25130	-18.23801	146.24138	-18.22516	150m
CCR035	146.24138	-18.22516	146.23286	-18.22181	0m
CCR036	146.23286	-18.22181	146.22766	-18.20591	150m
CCR037	146.22766	-18.20591	146.22740	-18.19649	0m
CCR038	146.22740	-18.19649	146.22385	-18.19468	150m
CCR039	146.22385	-18.19468	146.22250	-18.20651	0m
CCR040	146.22250	-18.20651	146.22261	-18.22227	400m
CCR041	146.22261	-18.22227	146.22130	-18.22836	130m Possible Bedrock
CCR042	146.22130	-18.22836	146.19282	-18.27164	400m
CCR043	146.19282	-18.27164	146.09313	-18.23832	115m Possible Bedrock

CCR044	146.09313	-18.23832	146.06981	-18.24633	400m
CCR045	146.04972	-18.27701	146.01654	-18.23616	165m
CCR046	146.01654	-18.23616	146.01769	-18.22945	400m
CCR047	146.01769	-18.22945	146.01186	-18.20967	130m
CCR048	146.01186	-18.20967	146.01129	-18.20350	400m
CCR049	146.01129	-18.20350	146.00990	-18.19493	130m
CCR050	146.00990	-18.19493	146.00752	-18.18279	400m
CCR051	146.00752	-18.18279	146.00702	-18.16828	130m
CCR052	146.00702	-18.16828	146.00834	-18.15618	400m
CCR053	146.00834	-18.15618	146.00787	-18.11976	165m
CCR054	146.00787	-18.11976	146.02418	-18.09240	130m
CCR055	146.02418	-18.09240	146.03191	-18.07180	400m
CCR056	146.03191	-18.07180	146.04998	-18.03302	165m
CCR057	146.04998	-18.03302	146.05744	-18.01997	400m
CCR058	146.05744	-18.01997	146.07098	-17.99667	165m
CCR059	146.07098	-17.99667	146.07961	-17.98948	400m
CCR060	146.07961	-17.98948	146.09864	-17.97312	165m
CCR061	146.09864	-17.97312	146.09698	-17.96864	0m
CCR062	146.09698	-17.96864	146.09237	-17.95941	115m
CCR063	146.09238	-17.95941	146.09090	-17.95392	0m
CCR064	146.09090	-17.95392	146.09737	-17.92755	165m
CCR065	146.09737	-17.92755	146.09767	-17.92486	400m
CCR066	146.09767	-17.92486	146.09949	-17.89050	165m
CCR067	146.09949	-17.89051	146.10192	-17.88402	400m
CCR068	146.10192	-17.88402	146.11416	-17.85955	165m
CCR069	146.11416	-17.85955	146.10724	-17.85270	0m
CCR070	146.10724	-17.85270	146.10508	-17.84373	150m
CCR071	146.10508	-17.84373	146.09962	-17.83389	0m
CCR072	146.09962	-17.83389	146.10174	-17.82684	150m
CCR073	146.10174	-17.82684	146.10199	-17.82494	0m
CCR074	146.10199	-17.82494	146.10467	-17.81896	130m
CCR075	146.10467	-17.81896	146.10100	-17.81301	0m
CCR076	146.10100	-17.81301	146.09387	-17.80612	65m Possible Bedrock
CCR077	146.09387	-17.80612	146.09630	-17.78725	400m
CCR078	146.09630	-17.78725	146.10954	-17.77579	130m
CCR079	146.10954	-17.77579	146.11132	-17.77302	400m
CCR080	146.11132	-17.77302	146.10513	-17.74988	130m
CCR081	146.10513	-17.74988	146.10667	-17.71520	165m
CCR082	146.10667	-17.71520	146.11210	-17.69671	400m
CCR083	146.11210	-17.69671	146.14732	-17.64959	165m
CCR084	146.14732	-17.64959	146.14256	-17.64423	0m
CCR085	146.14256	-17.64423	146.14186	-17.62958	150m
CCR086	146.14186	-17.62958	146.13733	-17.62406	0m
CCR087	146.13733	-17.62406	146.13581	-17.61808	75m Possible Bedrock
CCR088	146.13581	-17.61808	146.09104	-17.56150	0m
CCR089	146.09104	-17.56150	146.09036	-17.55705	150m Possible Bedrock
CCR090	146.09036	-17.55705	146.07052	-17.52350	0m
CCR091	146.07052	-17.52350	146.06954	-17.51655	130m
CCR092	146.06954	-17.51655	146.07423	-17.50233	400m
CCR093	146.07423	-17.50233	146.07605	-17.50269	75m Possible Bedrock
CCR094	146.07605	-17.50269	146.07693	-17.49624	130m
CCR095	146.07693	-17.49624	146.07692	-17.49330	75m

CCR096	146.07692	-17.49330	146.07746	-17.48058	160m
CCR097	146.07746	-17.48058	146.07066	-17.47485	0m
CCR098	146.07066	-17.47485	146.06717	-17.46872	130m Possible Bedrock
CCR099	146.06717	-17.46872	146.06613	-17.43401	165m
CCR100	146.06613	-17.43401	146.06899	-17.42432	400m
CCR101	146.06899	-17.42432	146.07200	-17.40199	165m
CCR102	146.15878	-18.16976	146.17033	-18.17798	165m
CCR103	146.17033	-18.17798	146.15878	-18.16976	0m
CCR104	146.15368	-17.95365	146.13968	-17.93843	130m
CCR105	146.13968	-17.93843	146.14361	-17.93386	Width of spit
CCR106	146.14361	-17.93386	146.17296	-17.96745	0m
CCR107	146.17296	-17.96745	146.15368	-17.95365	75m



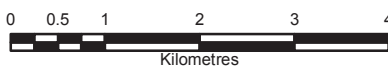
Erosion Prone Area Linear Distances and their Locations for Cassowary Coast Regional Local Government Area

Note:
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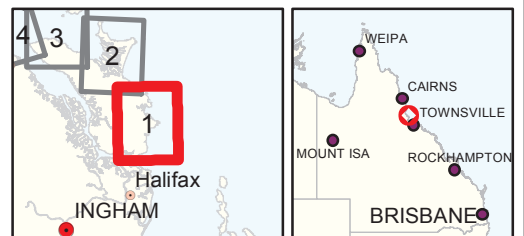
CCR006 Segment number and linear distance for erosion prone area

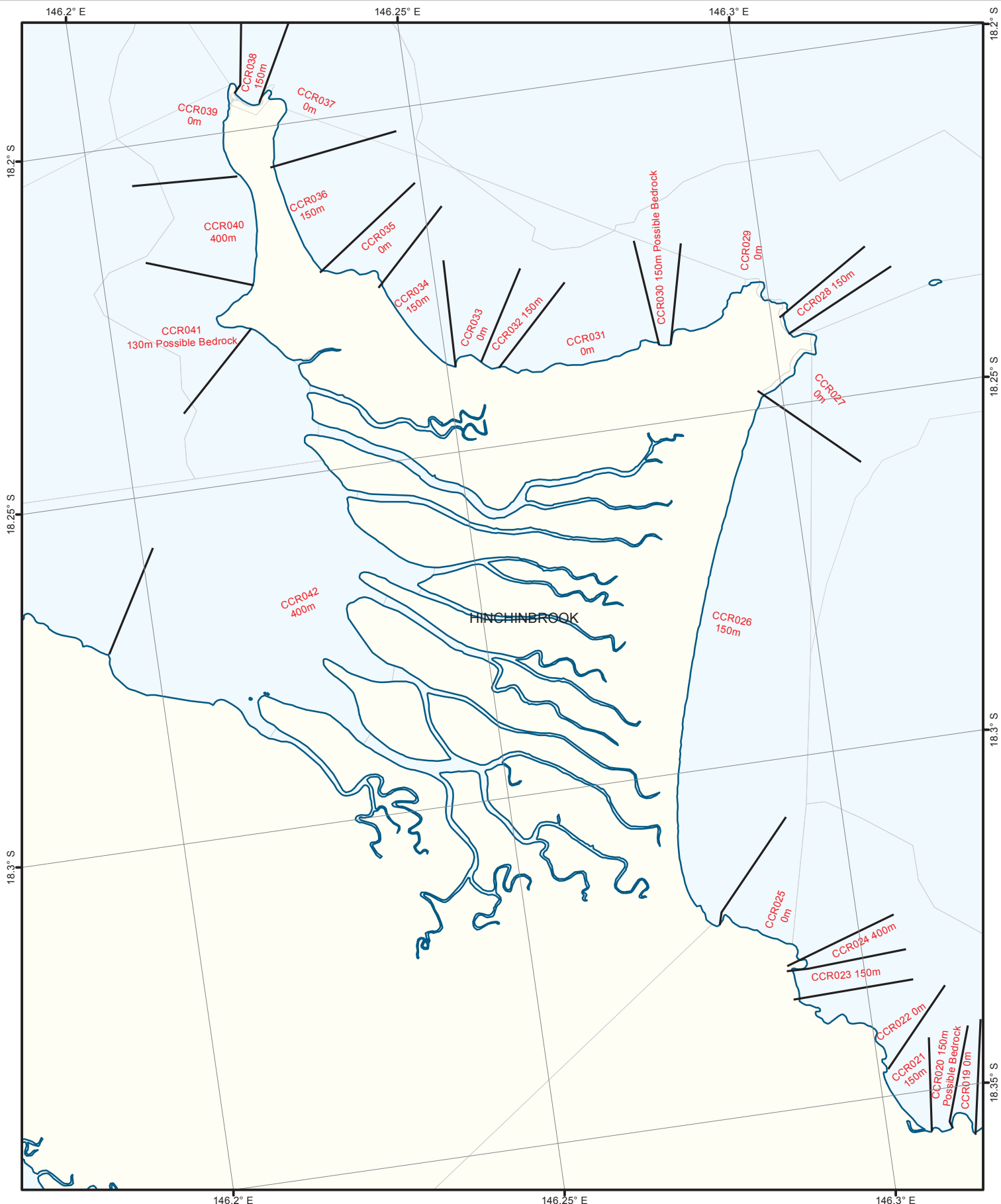
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



CCR3A Map 1

Projection: Albers. Datum: GDA 1994.





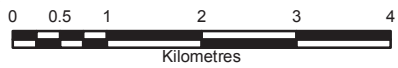
Erosion Prone Area Linear Distances and their Locations for Cassowary Coast Regional Local Government Area

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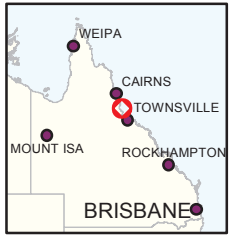
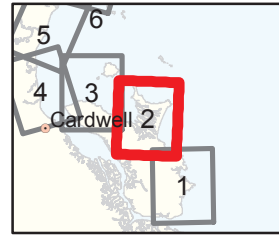
CCR006 Segment number and linear distance for erosion prone area

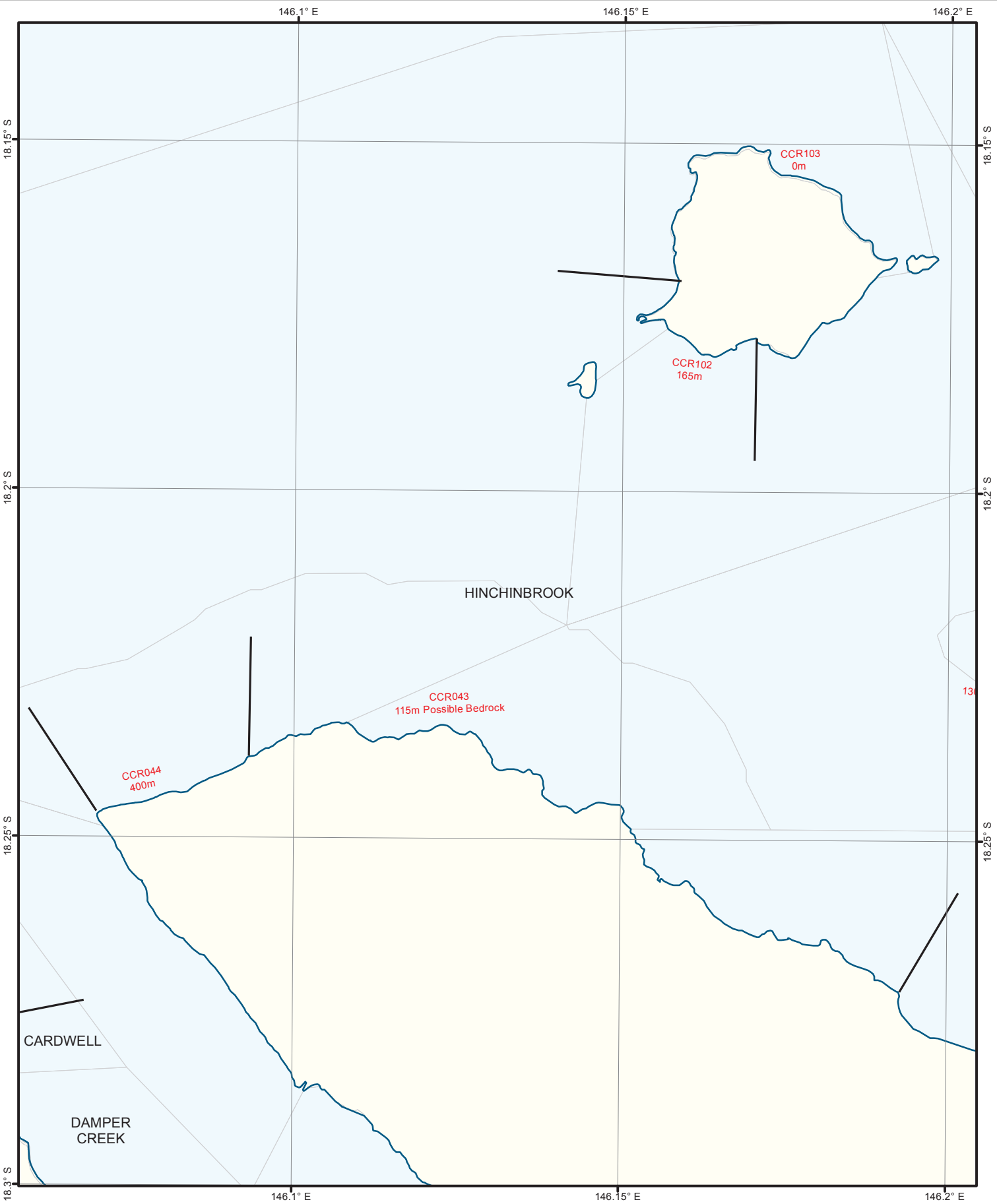
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



CCR3A Map 2

Projection: Albers. Datum: GDA 1994.





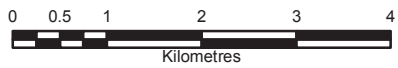
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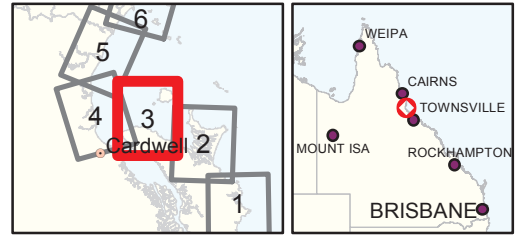
CCR006 Segment number and linear distance for erosion prone area

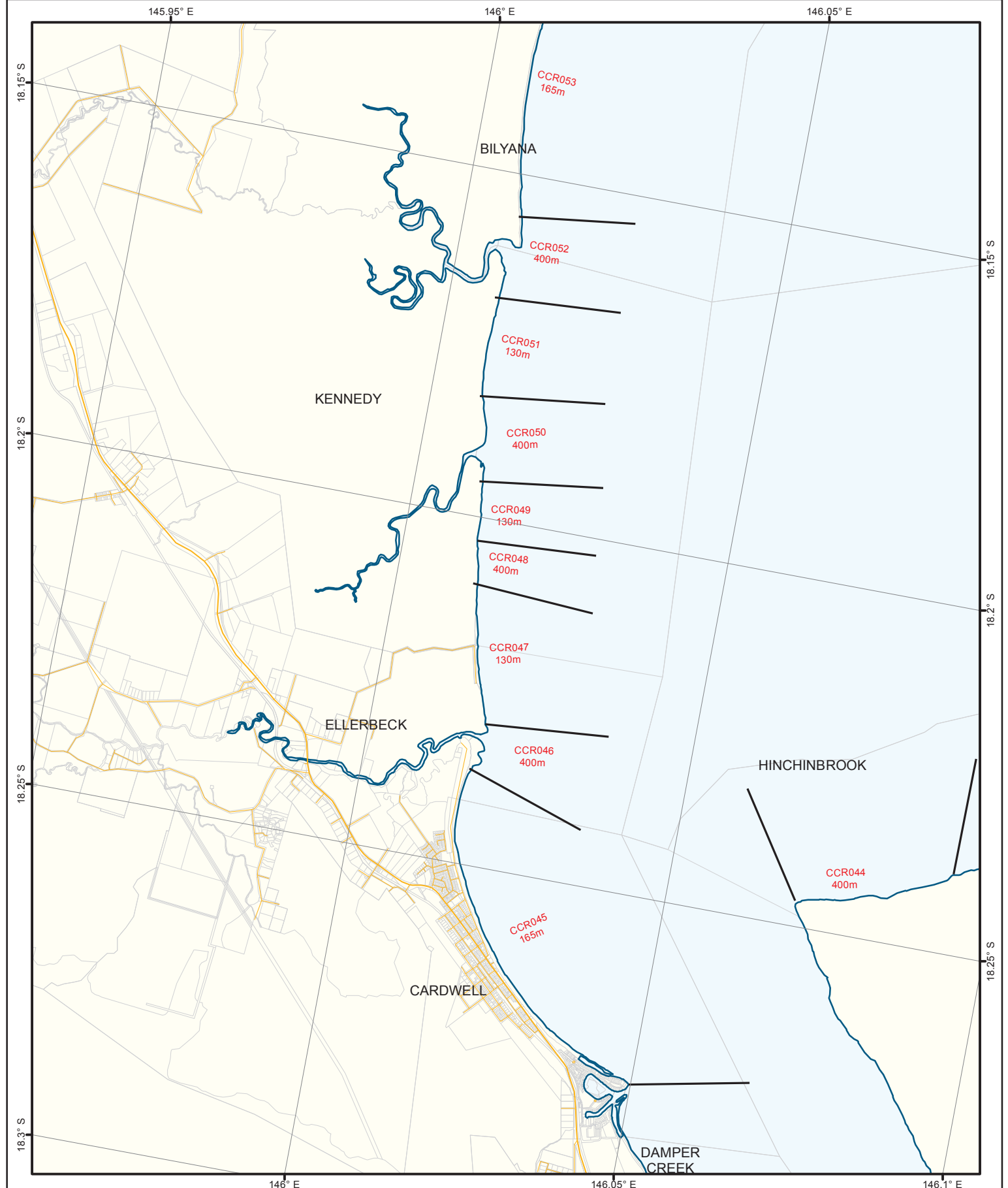
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



CCR3A Map 3

Projection: Albers. Datum: GDA 1994.





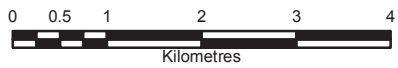
Erosion Prone Area Linear Distances and their Locations for Cassowary Coast Regional Local Government Area

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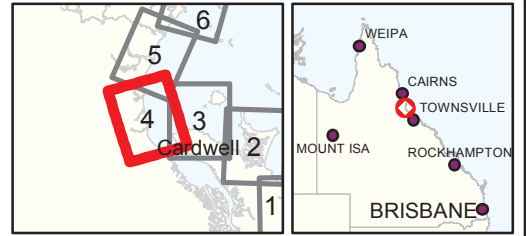
CCR006 Segment number and linear distance for erosion prone area

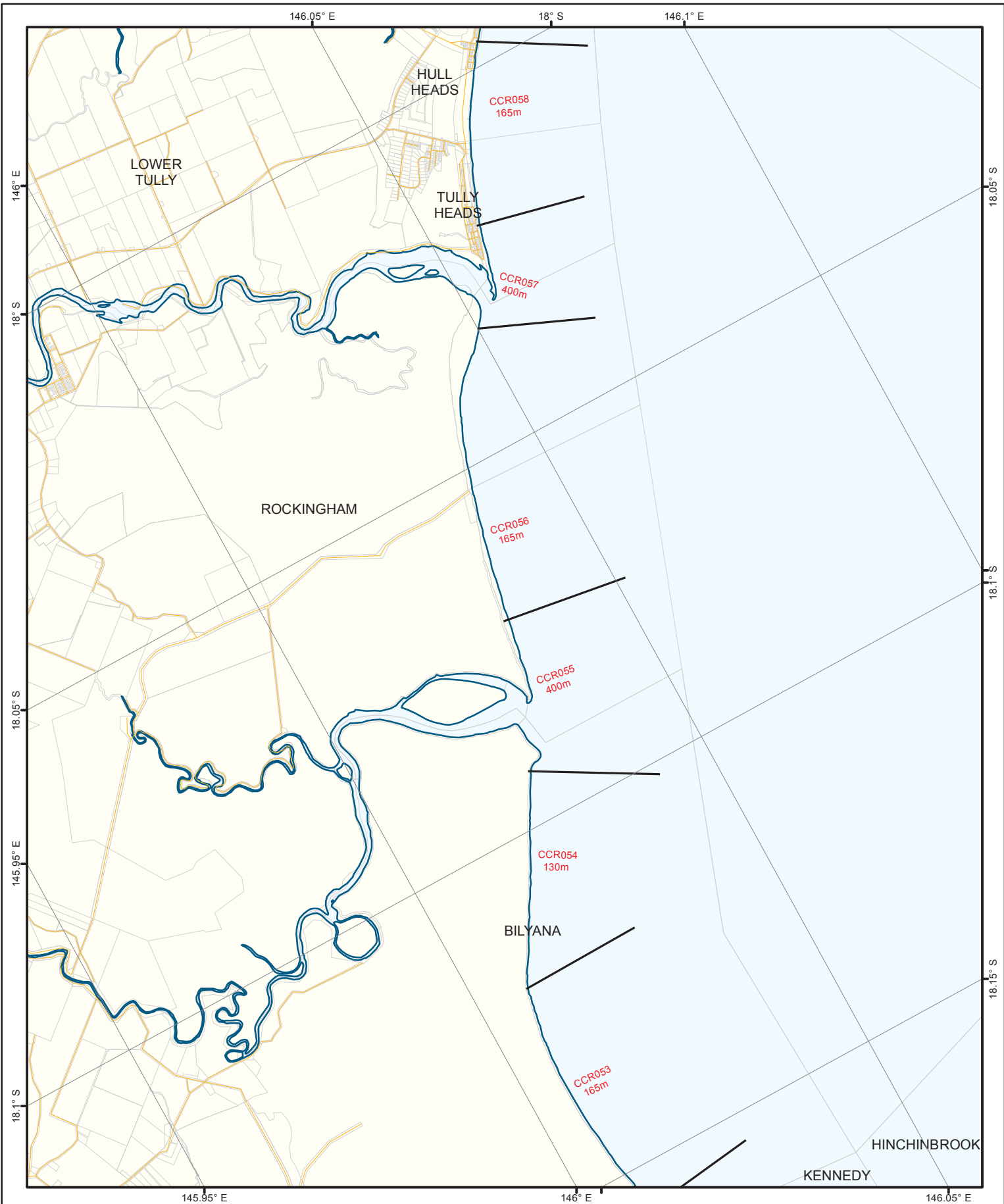
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



CCR3A Map 4

Projection: Albers. Datum: GDA 1994.









Erosion Prone Area Linear Distances and their Locations for Cassowary Coast Regional Local Government Area

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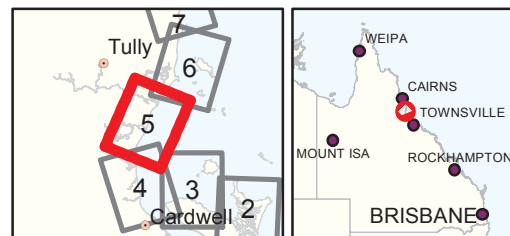
CCR006 Segment number and linear distance for erosion prone area

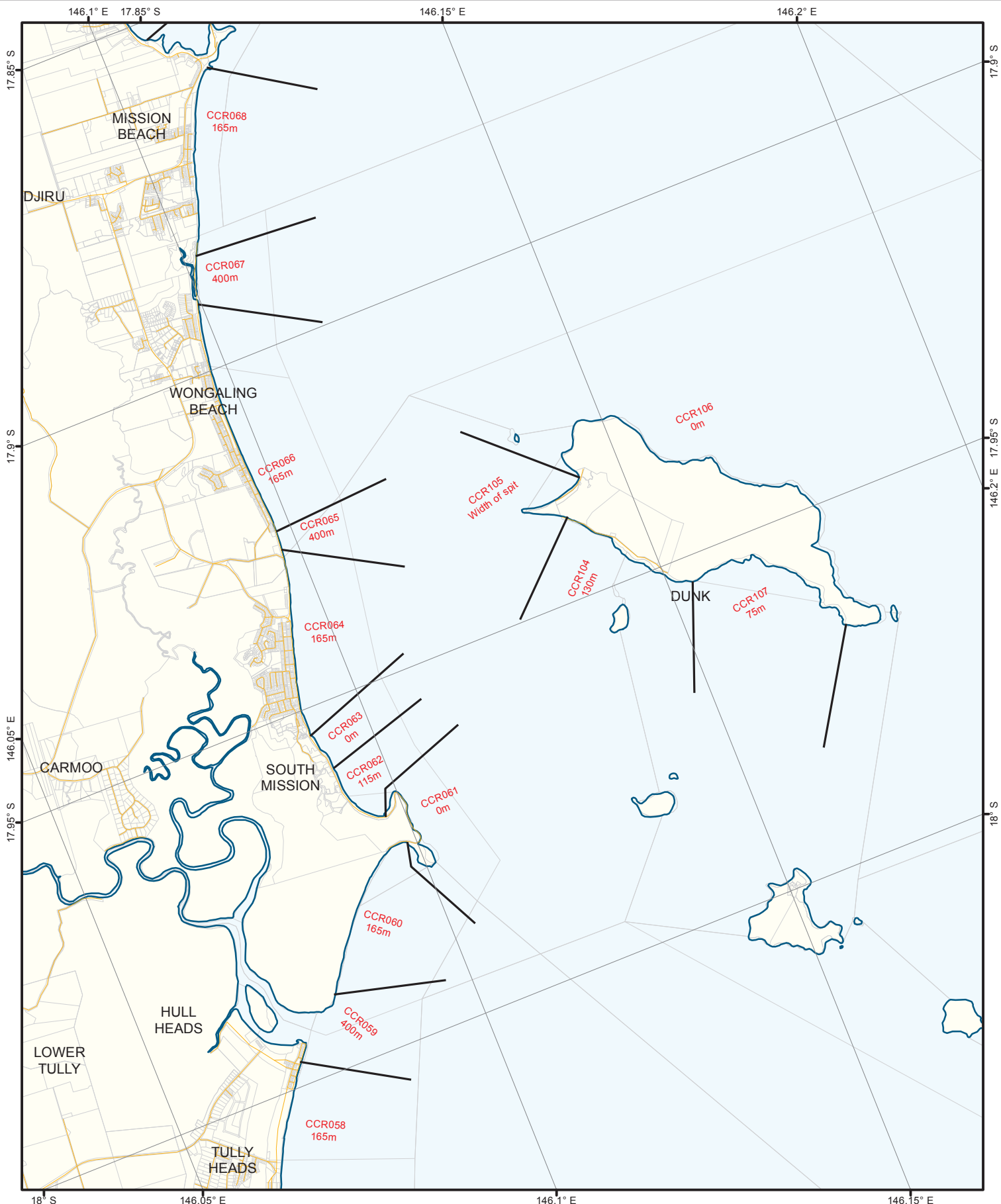
-  Erosion Prone Area segment start/stop location
-  Roads
-  Queensland coast
-  Cadastral boundaries



CCR3A Map 5

Projection: Albers. Datum: GDA 1994.





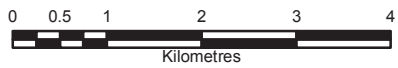
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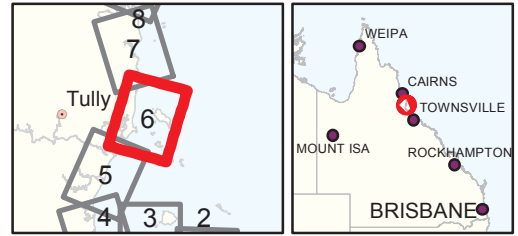
CCR006 Segment number and linear distance for erosion prone area

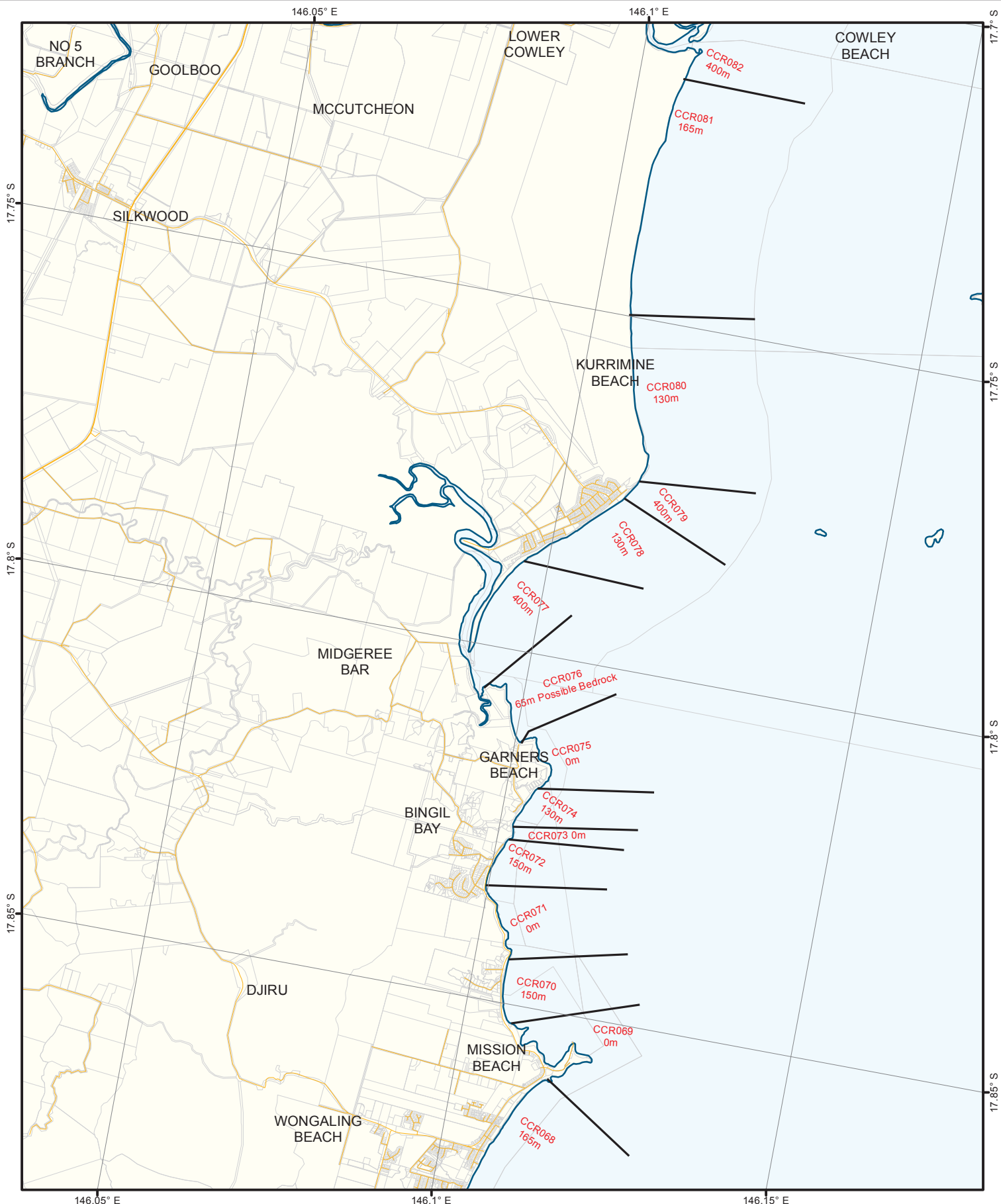
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



CCR3A Map 6

Projection: Albers. Datum: GDA 1994.





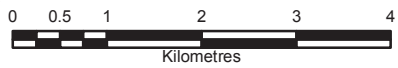
Erosion Prone Area Linear Distances and their Locations for Cassowary Coast Regional Local Government Area

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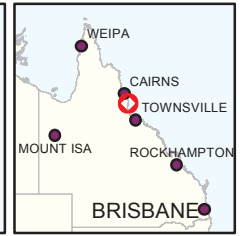
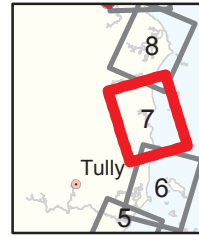
CCR006 Segment number and linear distance for erosion prone area

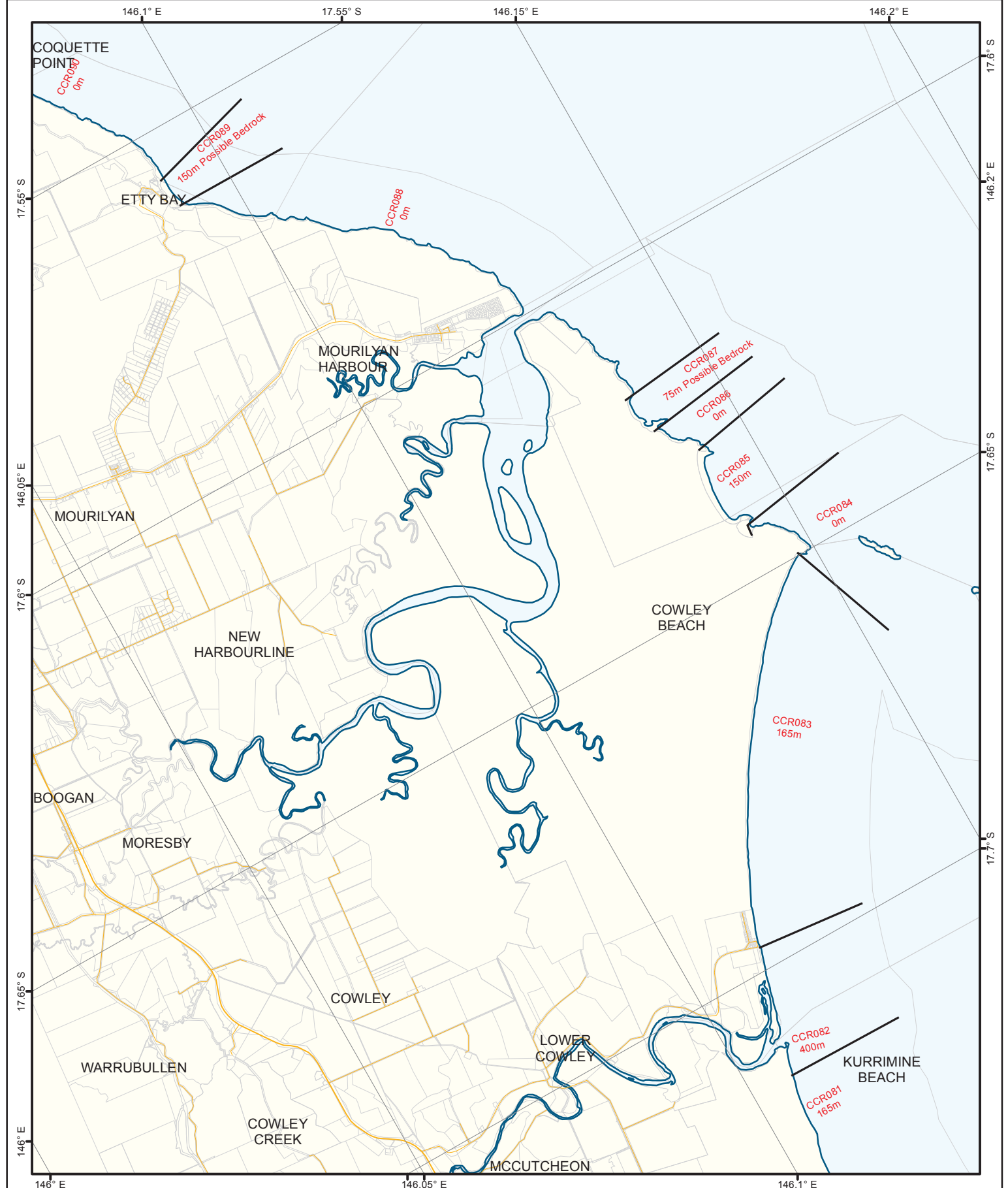
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



CCR3A Map 7

Projection: Albers. Datum: GDA 1994.





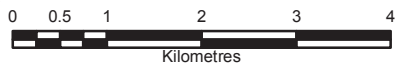
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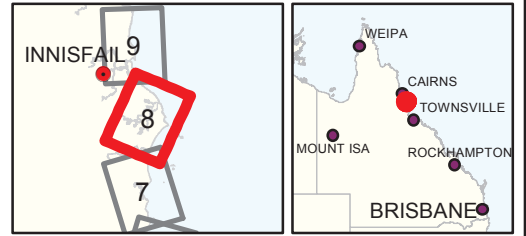
CCR006 Segment number and linear distance for erosion prone area

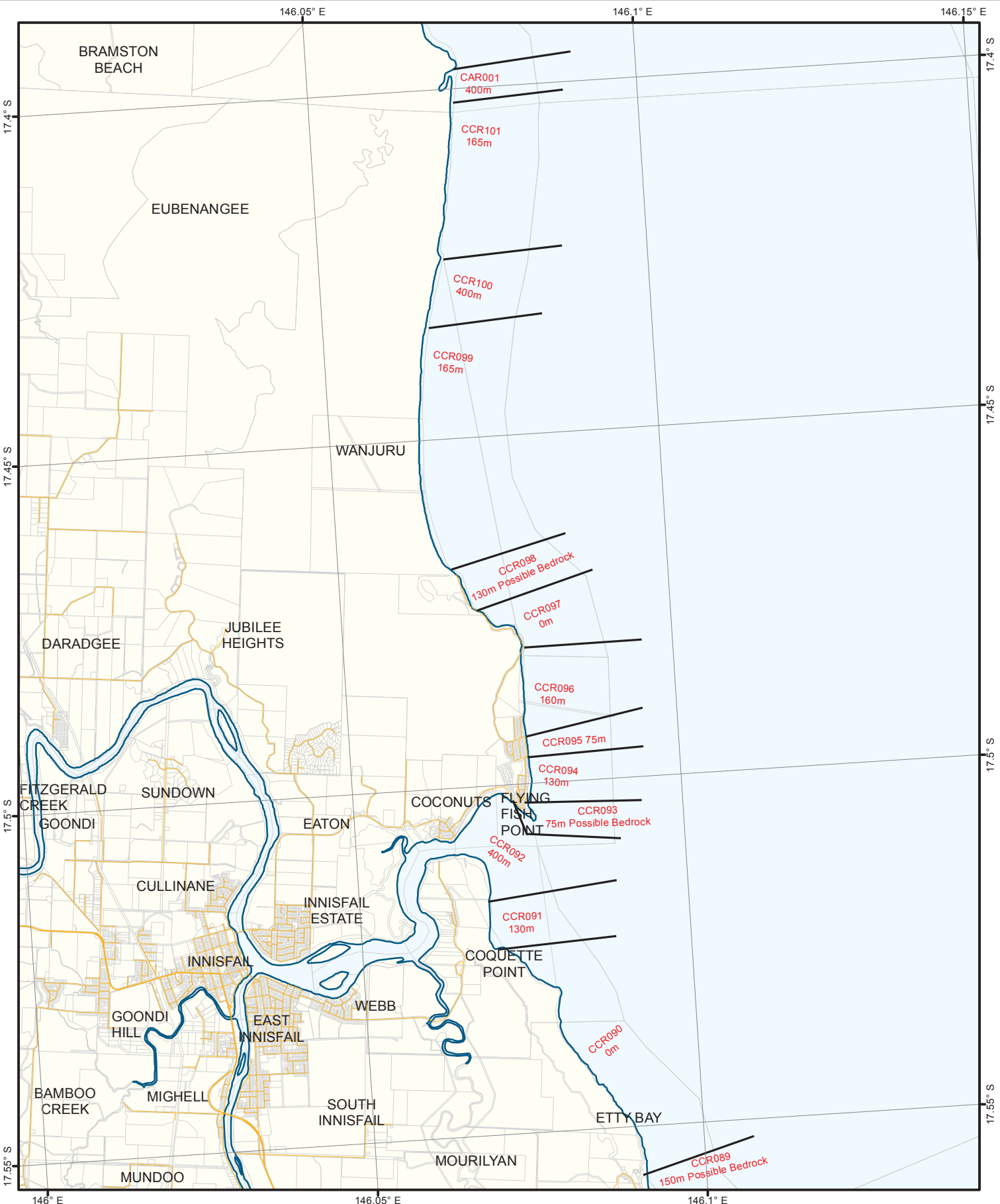
- Erosion Prone Area segment start/stop location
- Roads
- Queensland coast
- Cadastral boundaries



CCR3A Map 8

Projection: Albers. Datum: GDA 1994.





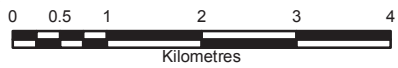
Erosion Prone Area Linear Distances and their Locations for Cassowary Coast Regional Local Government Area

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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CCR006 Segment number and linear distance for erosion prone area

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



CCR3A Map 9

Projection: Albers. Datum: GDA 1994.

