

« High scale reference coastline » working-group Outcomes and further steps

*GT GIMeL « Géo-**I**nformations pour la **M**er et le **L**ittoral »*

Agenda

- Working group features
- Several Coastlines
- geomorphological coastline
- land-sea boundary (high scale reference coastline)
- further steps

Working group features

- WG Launched in 2016 (previous WG 2011 – 2015)
- Goals :
 - - Identify core reference data sets in order to support public policies
 - - Set up modalities to create and keep up to date these datasets
- Numerous involved stake-holders (20 to 30 people from local authorities, State at different levels, and public bodies)
- CNIG legitimacy and State support (CEREMA : a public body funded to manage the WG)



Several coastlines

- Coastline was quoted in the inventory of core reference datasets to create in order to support public policies
- Mainly 2 types of coastlines are needed : a geomorphological coastline and a land-sea boundary (initially dubbed “administrative” coastline)
- Geomorphological coastline is composed of “markers” produced in the frame of the national indicator of coastal erosion downloadable on :
<http://www.geolittoral.developpement-durable.gouv.fr/>
- Measured by photo-interpretation with the help of shore orthophotographies



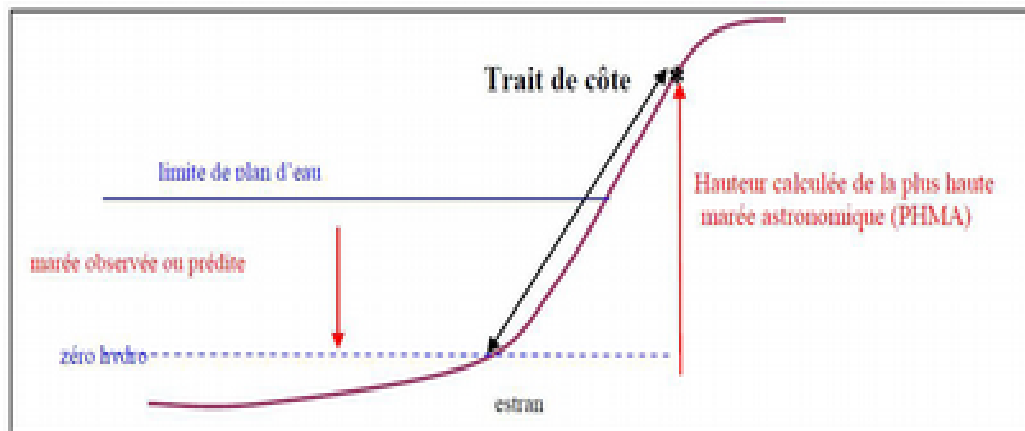
• → Geomorphological coastline





Land-sea boundary (high scale coastline)

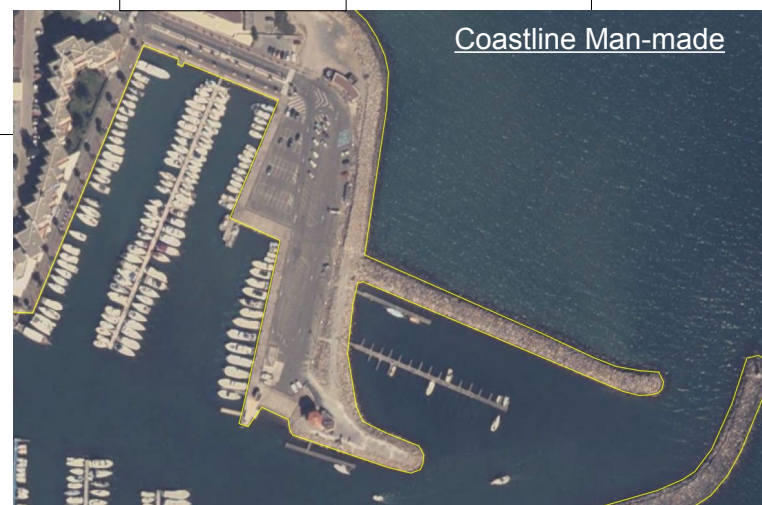
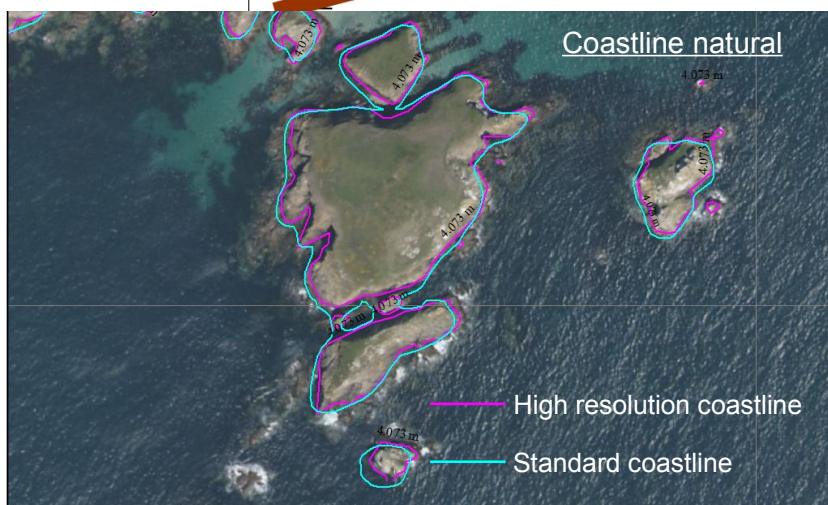
- A core **reference** land-sea boundary linked to existing administrative boundaries (cross boundaries of the sea in estuaries or river mouths for instance).
- It covers knowledge and regulatory needs.
- New 2018 survey led by public body Shom (22 answers), ease to shape further the product : *High resolution coastline* is astronomical high water mark at 120 tidal range in normal weather.





Land-sea boundary (high scale coastline)

- Technical product specifications: “A crossing between a tidal model area and an altimetric Digital Ground Model”.



Land-sea boundary (high scale coastline)

- **General product specifications :**
- - The geographic extent : Metropolitan France and French's overseas territories
- - Absolute planimetric accuracy: best than 10 m
- - Planimetric coordinate system: Legal

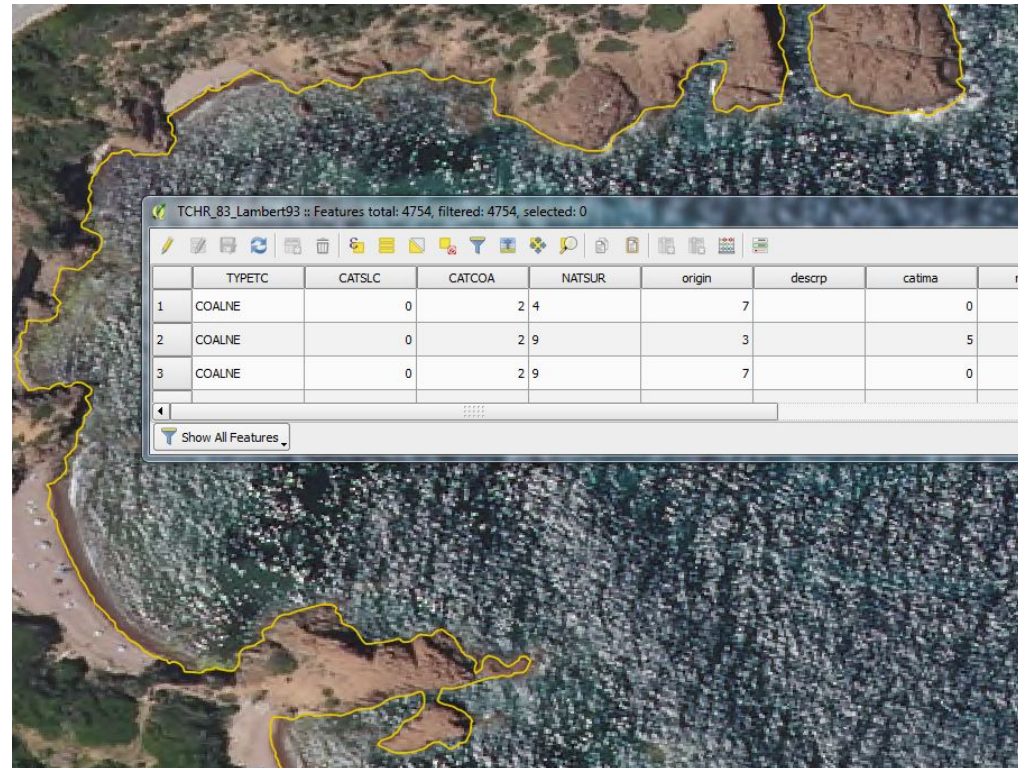
Zone	Système géodésique	Ellipsoïde	Projections
France métropolitaine	RGF93	IAG GRS 80	Lambert 93
Guadeloupe	RRAF	IAG GRS 80	UTM 20 nord
Martinique	RRAF	IAG GRS 80	UTM 20 nord
Guyane	RGFG95	IAG GRS 80	UTM 21 et 22 nord
Mayotte	RGM04	IAG GRS 80	UTM 38 sud
Réunion	RGR92	IAG GRS 80	UTM 40 sud
Saint-Pierre-et-Miquelon	RGSPM06	IAG GRS 80	UTM 21 nord

- - Altimetric coordin
- - Metadata: ISO 19115 + INSPIRE



High scale coastline

- **Product specifications**
Coastal features :
 - ✓ Type,
 - ✓ Man-made or natural,
 - ✓ Nature of surface, sand or rocks...
 - ✓ Source data date
 - ✓ Precision
 - ✓ Conform IHO norme (S57)



High scale coastline : further steps

- Producers : Shom (French National Hydrographic and Oceanographic Service) and IGN (French mapping agency)
- Budget : 360 k€ (Metropolitan France)
- Production schedule : within 1.5 year (15 000 km)

Any questions?

“Geo-Information for the sea and the coast”

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