



Status of Inland ENC's - BRAZIL

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Directorate of Hydrography and Navigation (DHN)

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Legal status of Inland ENC's - BRAZIL

- **Directorate of Hydrography and Navigation (DHN):**
 - Defines guidelines and authorizes the establishment, modifications or permanent cancellation of aids to navigation;
 - produces **official nautical charts** for **maritime** and **inland waters**
- **Other Organizations (CHN-4, SSN-6 and SSN-9):**
 - Maintain the **aids to navigation**;
 - **Survey** the rivers on each area of jurisdiction;
 - Publish **preliminary** Notice to Mariners for the paper charts.

Main waterways in Brazil



Madeira – 1056 km

Amazonas – 1650 km

Solimões – 1630 km

São Francisco – 1370 km

Tocantins-Araguaia – 2250 km

Tietê-Paraná – 2400 km

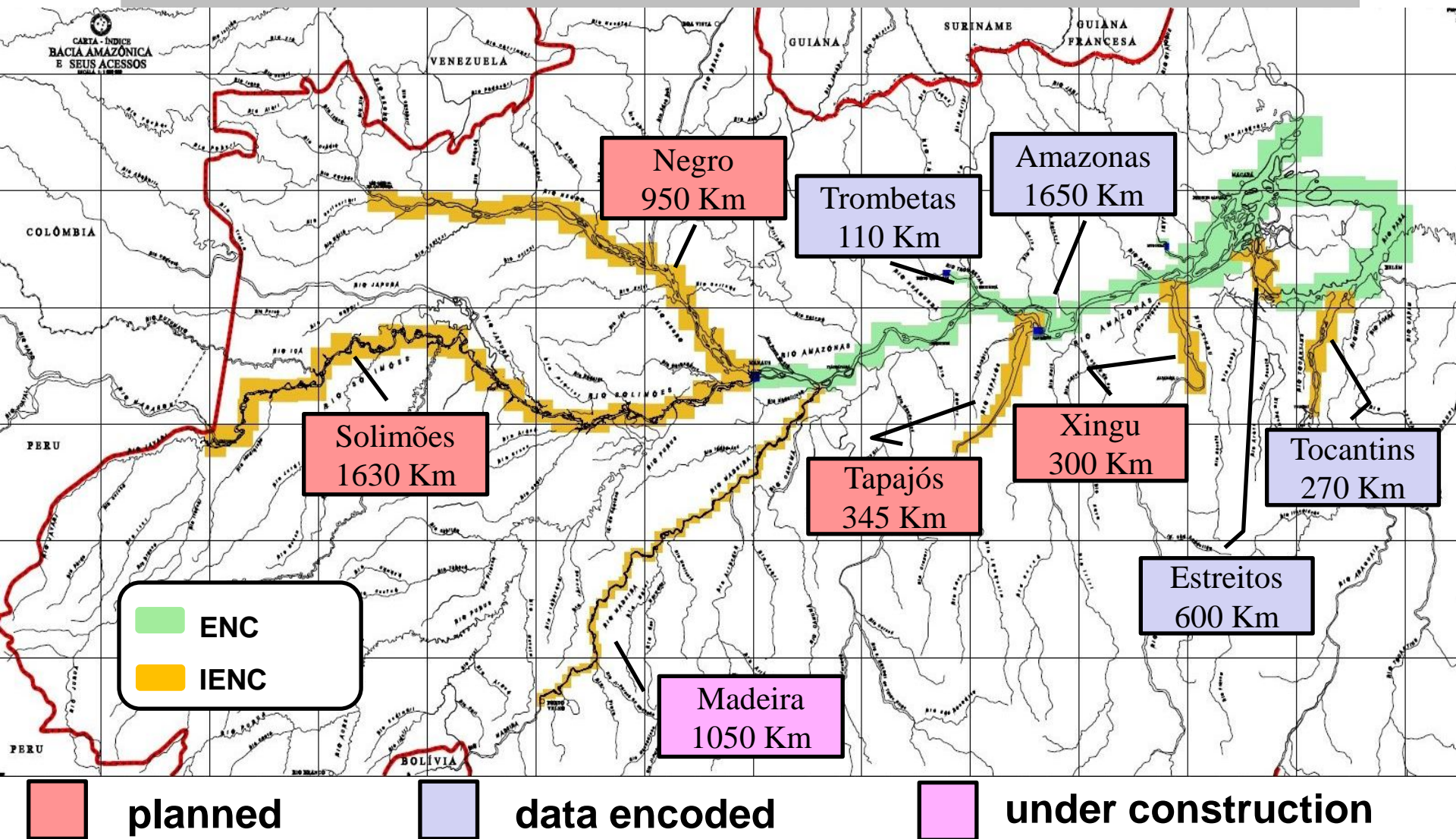
Paraguay (BR) – 1278 km

SSN-6 - Ladário

CHN-4 – Belém

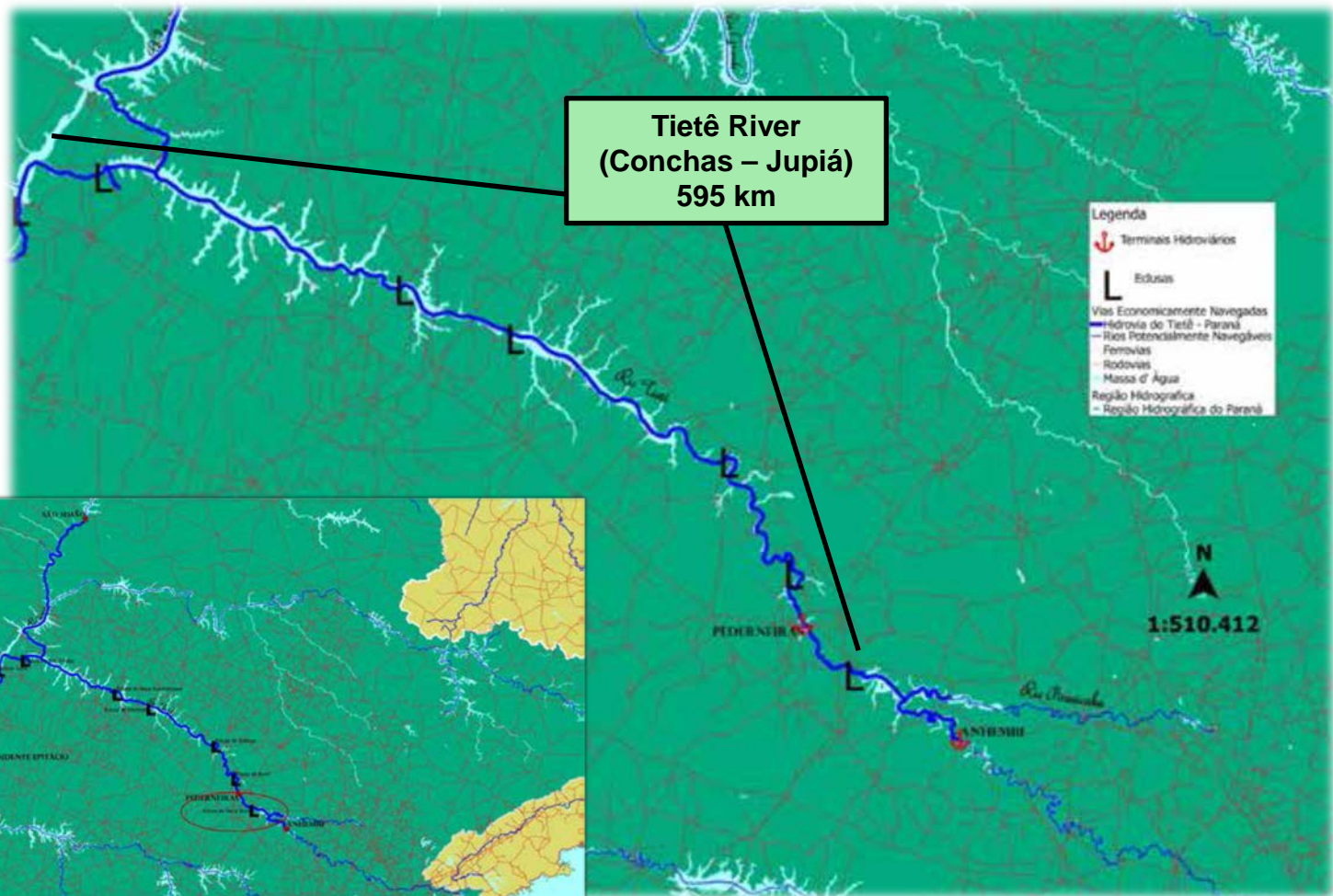
SSN-9 - Manaus

ENCs & IENCs - Amazon Region



Approximately 4500 km – Inland ENC

Tietê River – IENCs under construction



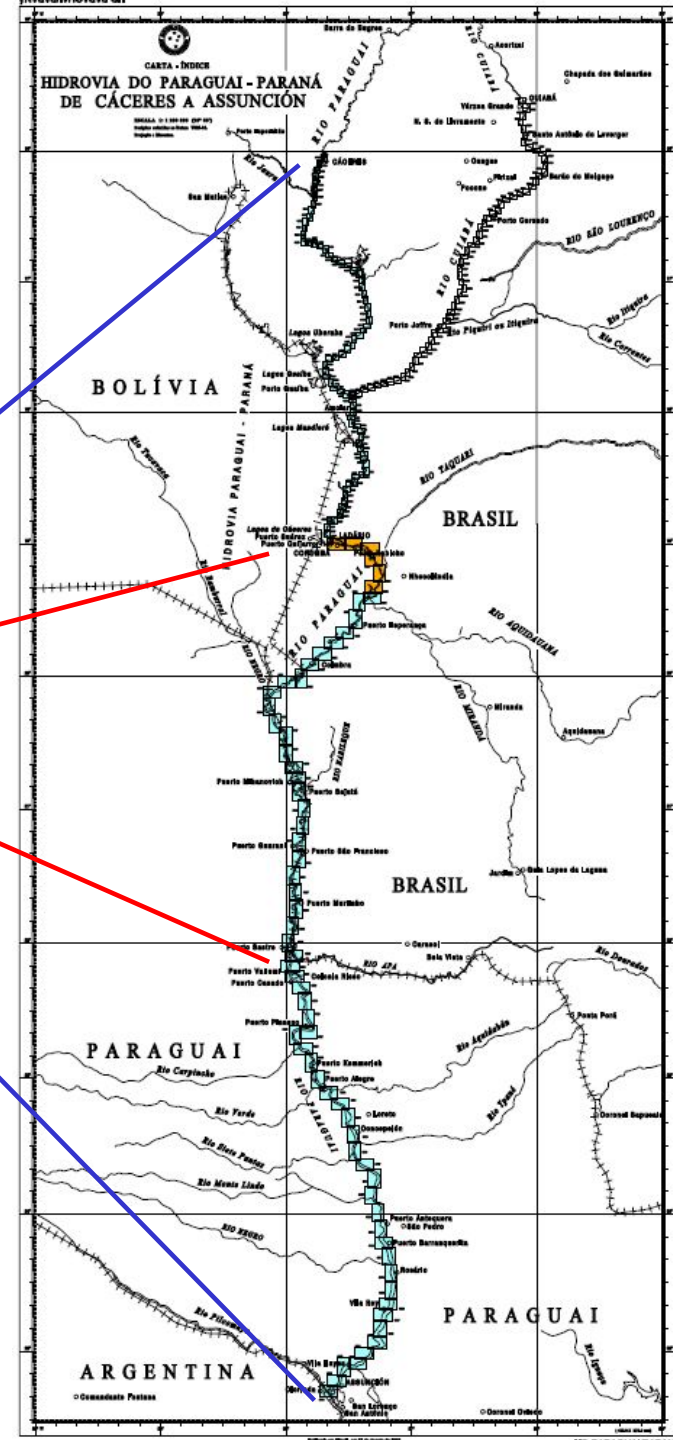
Paraguay River Inland ENCs available for tests

Part of Brazilian section – 600km

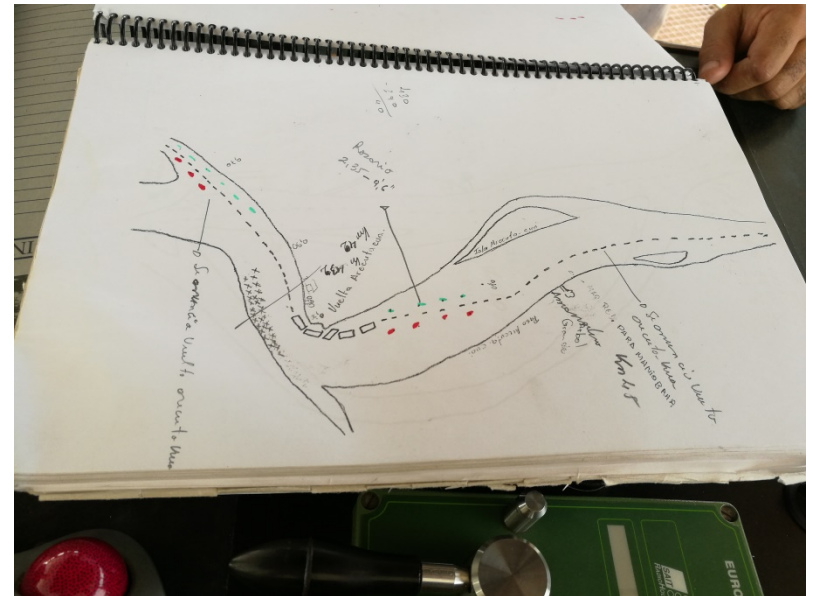
Paraguay River (Cáceres – Asunción)

- Brazilian section – 1278 km
- Paraguayan section - 554 km

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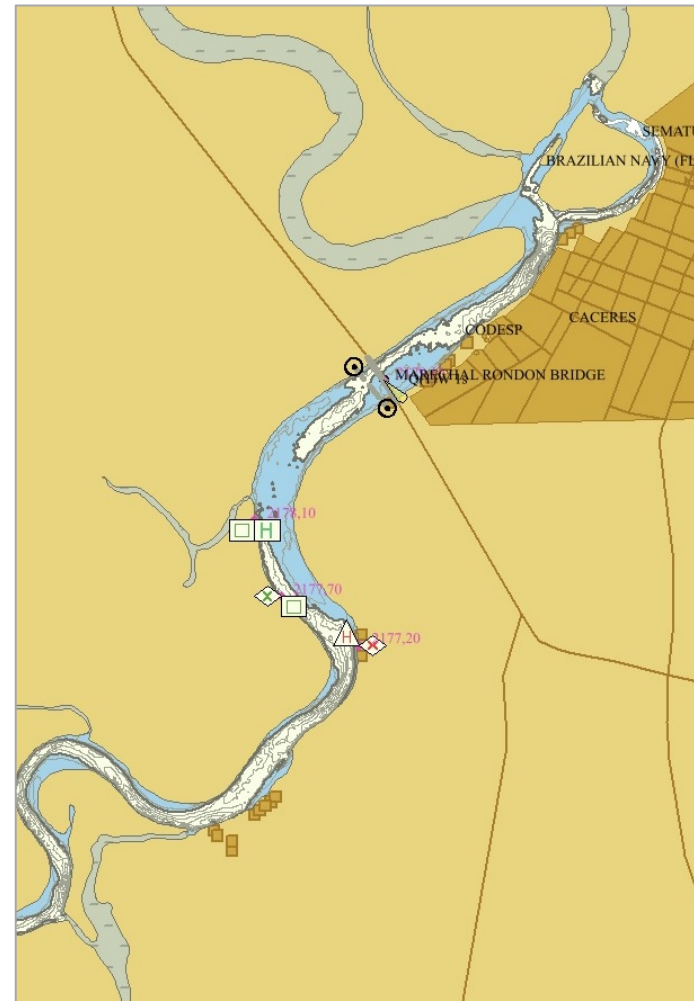
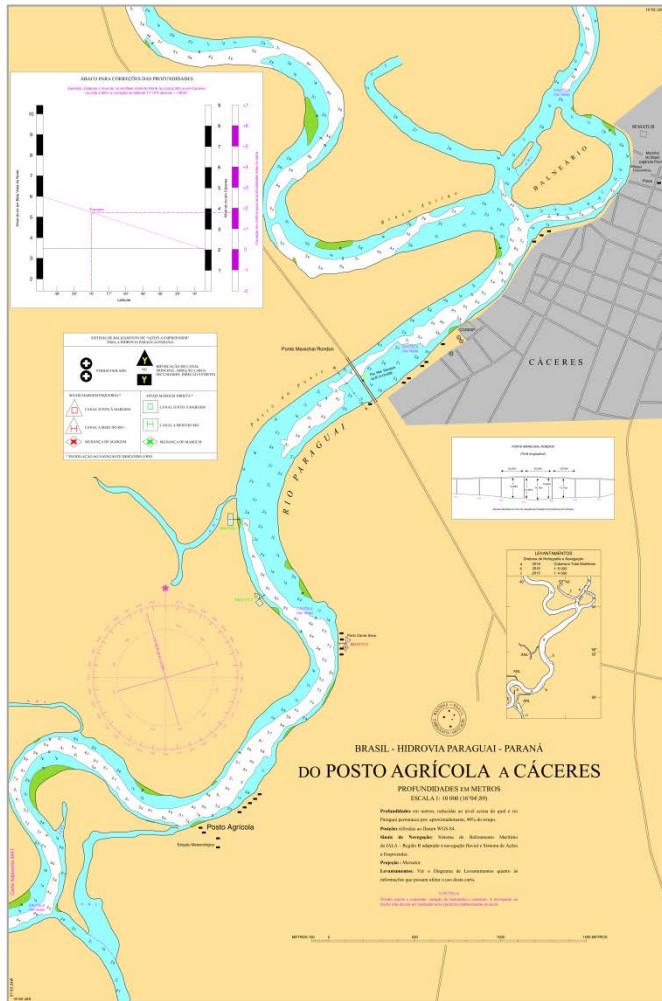


Paraguay River - Visit in August 2017



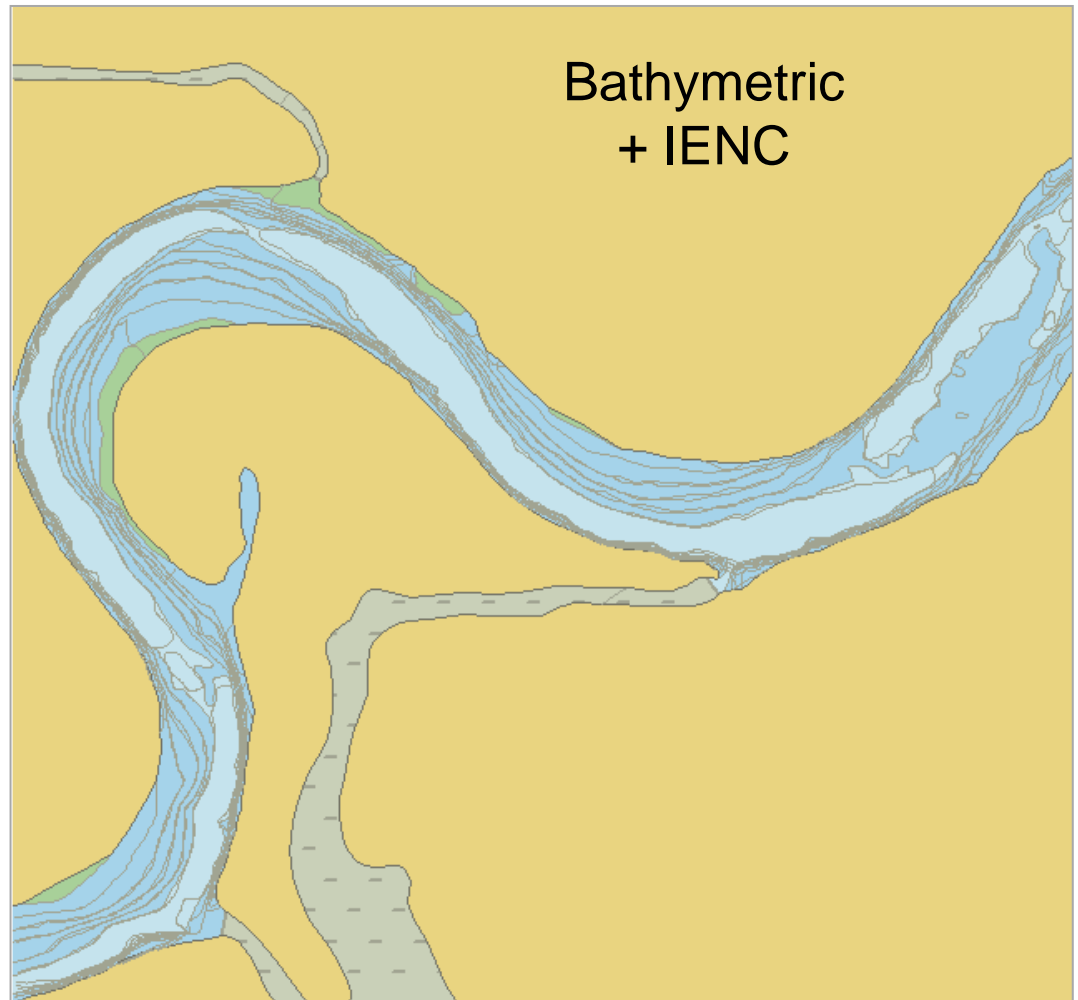
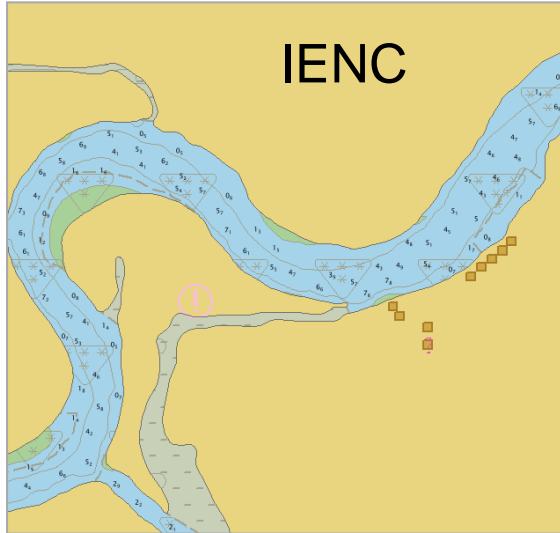
Paraguay River

Bathymetric Inland ENC's



Paraguay River

Bathymetric Inland ENC



Thank you....

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