

Technical Cooperation of Hydrographic Survey & Electronic Navigational Charts

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SWPHC21

Kei TAKASHITA

JICA Expert

Vice Chief Advisor

for the Capacity building project of
Hydrographic Survey and Electronic Navigational Charts
in Solomon Islands

Japanese Government Policy

- **Free and Open Indo-Pacific(FOIP)**

In 2016, Japan proposed the vision, which aims to improve connectivity between Asia and Africa via the Indian and Pacific Oceans, and to promote regional stability and prosperity.

- **PALM9 in 2021**

(The Ninth Pacific Islands Leaders Meeting in 2021)

Japan will support with training to build capacity for developing marine charts in the Pacific Region.

- **PALM10 in 2024**

(The Tenth Pacific Islands Leaders Meeting in 2024)



What is JICA?

- ***JICA (Japan International Cooperation Agency)*** is in charge of administering all ODA in Japan, except for contributions to international organizations.
- ***Mission :***
JICA will work on human security and quality growth in accordance with the Development Cooperation Charter.

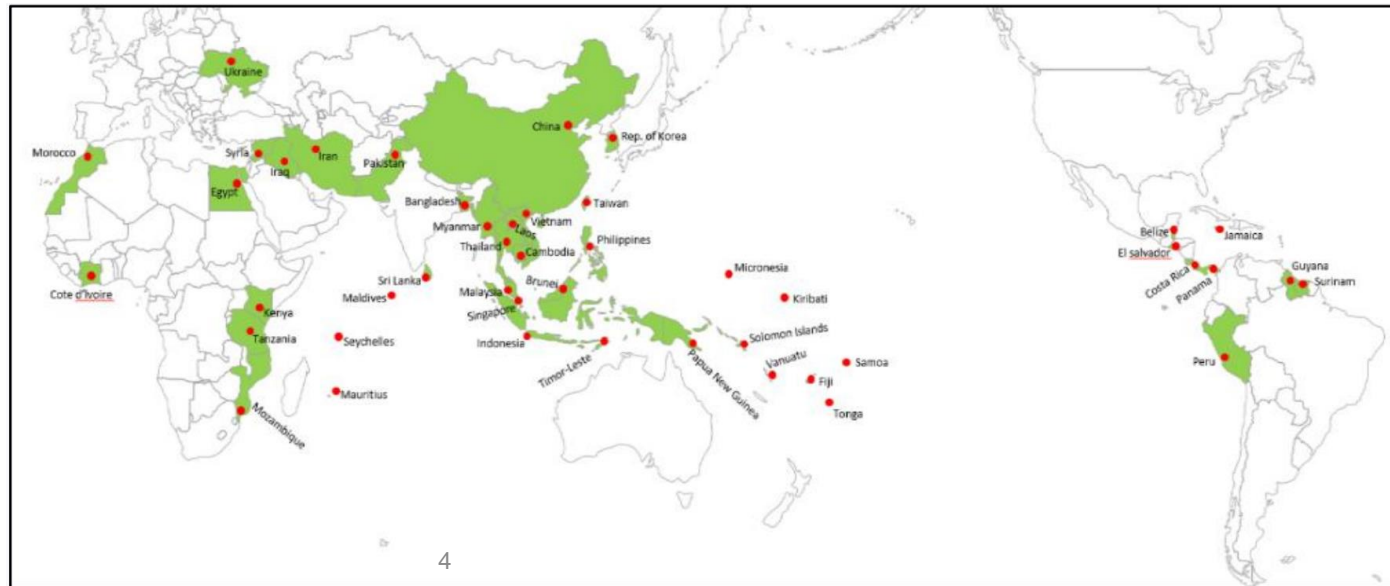
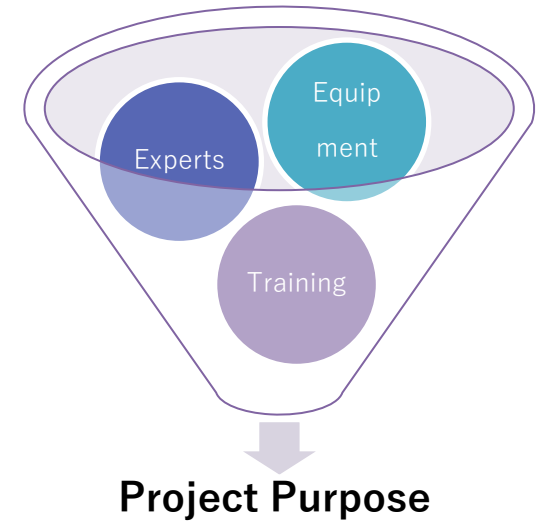


JICA Training

● Hydrography for Charting and Disaster Management Course

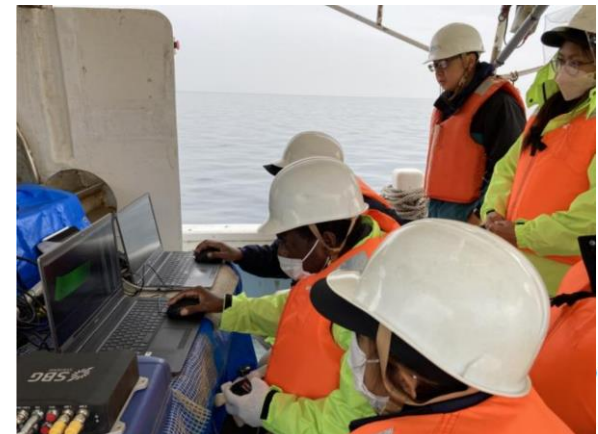
Six-month training course for hydrographic surveyors conducted by JICA in cooperation with Hydrographic and Oceanographic Department, Japan Coast Guard since 1971

More than 456 trainees from 45 countries have participated until 2023.



- **Hydrography for Charting and Disaster Management**

Lectures and field exercises are provided to acquire theory and skills on hydrographic survey.

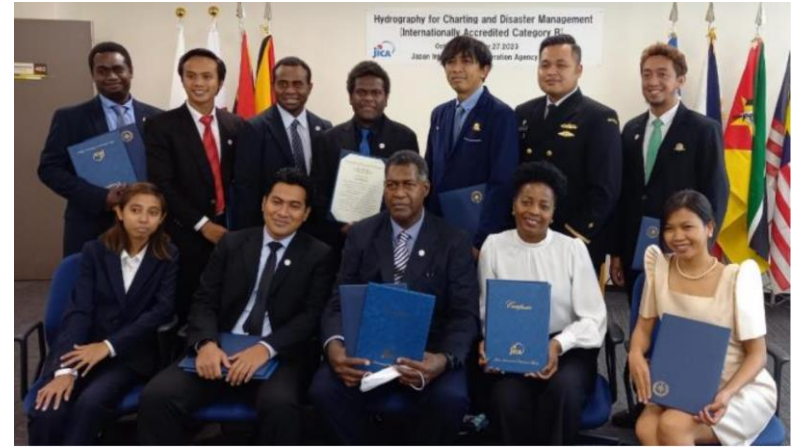


JICA Training

- **Hydrography for Charting and Disaster Management**

Recognized as Category-B Hydrography by IBSC.

IBSC: International Board of Standards of Competence for Hydrographic Surveyors and Nautical Cartographers.



JICA trainees in 2022



JICA trainees in 2023



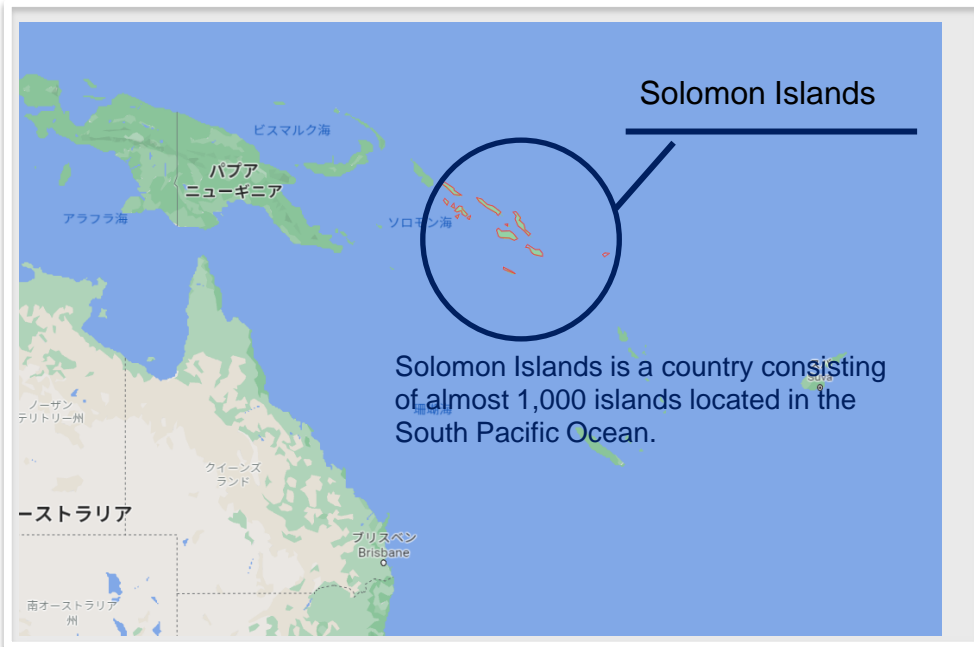
Japanese Assistance

● Japanese Assistance for the capacity building project of Hydrographic Survey and Charting

Yearsc	Country	Project Name
2023- 2024	Madagascar	Hydrographic Survey and ENC Production in and around Toamasina Port and Trade Route
2022- 2025	Solomon Islands	The Project for Development Support of Electronic Navigational Charts for Honiara and Noro Ports
2017- 2023	Indonesia, Malaysia, Singapore	Joint Hydrographic Survey of The Straits of Malacca and Singapore
2013-2017	Cambodia	Project for Productions of Integrated Digital Terrain Model and Electronic Navigational Chart
2011	Vietnam	Process of Electronic Navigational Chart Production and Management
2009-2010	Papua New Guinea	Promotion of Development of Electronic Navigational Chart in PNG
2008-2009	Sri Lanka	Promotion of Development of Electronic Navigational Chart in Sri Lanka
2008	Myanmar	Bathymetric Survey at Yangon Port
2008	Philippines	Enhancement of Hydrographic Capabilities for navigational Safety
2002-2004	Mauritius	Technical Assistance and Training on the Hydrographic Survey of Approach Channel
1995-1999	Fiji Islands	Hydrographic Survey and Production of Nautical Charts in the Northern Lau Islands Region

ENC Projects in Solomon Islands

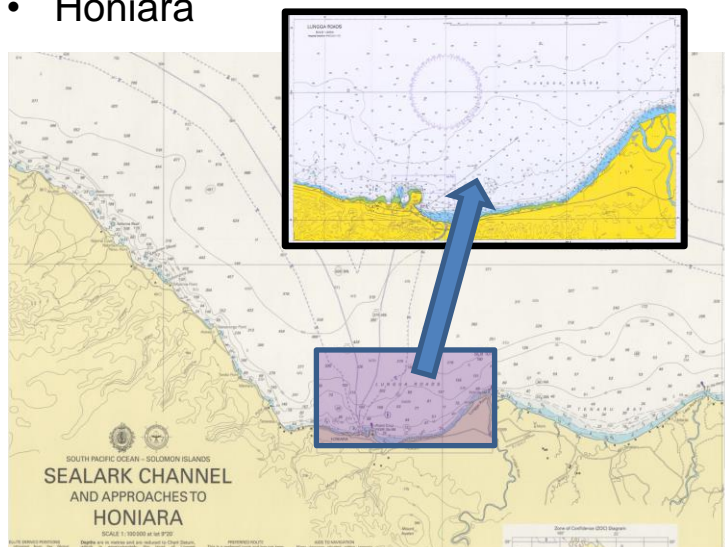
◆ The Project for Improvement of Honiara Port Facilities (Solomon)



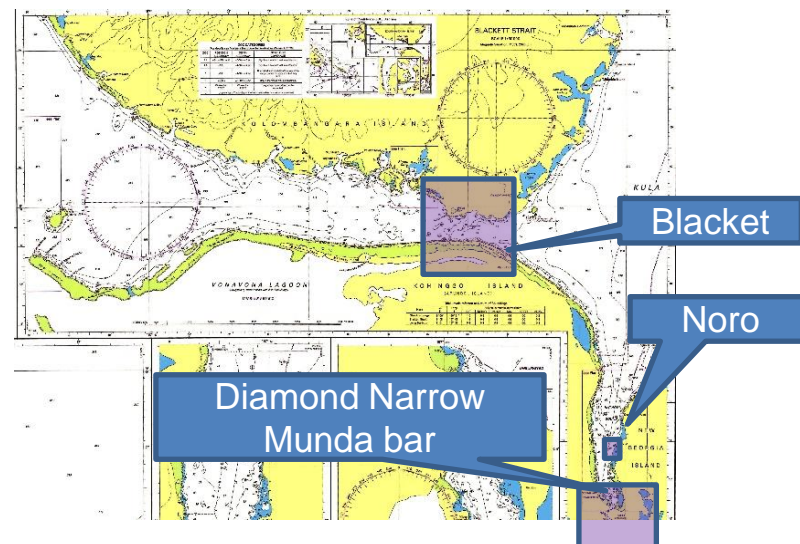
ENC Project in Solomon Islands

Project Areas

- Honiara



- Noro



Place	Types	Area, Scale
Honiara	ENC	Harbour area
	Paper Chart	1/5,000 and 1/20,000
Noro	ENC	Harbour area, Blacket strait
	Paper Chart	Diamond narrows and Munda bar 1/5,000, 1/20,000 and 1/50,000

ENC Project in Solomon Islands

Input by JICA

- **Dispatch of Experts: 12 experts, Capacity Building**

(62 M/M in Solomon Islands)

- **Hydrography and ENC training in JAPAN**

- **The following equipment will be supplied by JICA in the Project,**

- Positioning/Navigation
- Depth sounding system
- Seabed Imaging
- Oceanographic measurement/tide gauge
- ENC/paper chart production software
- A0 Plotter



GNSS Receiver & Data Recorder



Single Beam Echo sounder



Side Scan Sonar

ENC Project in Solomon Islands

Past Activities

1. Hydrographic Survey

Multi-beam echo sounding at Honiara port, Noro port, Munda Bar, and Blackett Strait

2. Coastline Survey by DRONE

The detailed coastline is obtained from DRONE photography with OJT.

3. Tide Observation

➤ Noro port

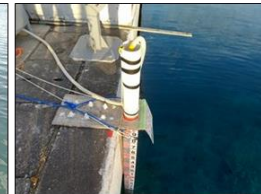
Semi-permanent station,

➤ Honiara, Munda and Ringi port

Temporary station,

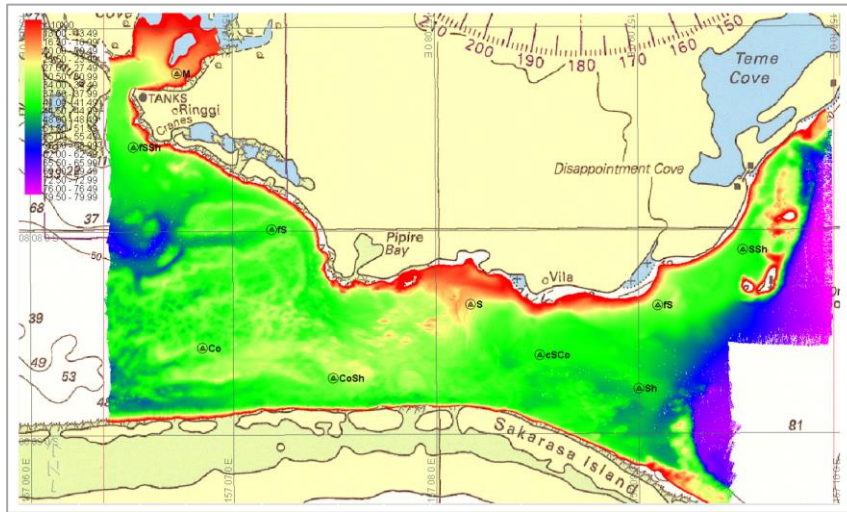
4. Satellite Derived Bathymetry (SDB)

hydrographic information was very poor and hydrographic survey operation was dangerous.

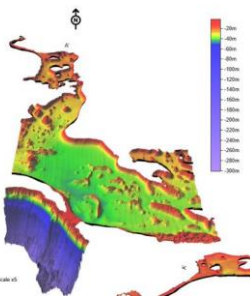


ENC Project in Solomon Islands

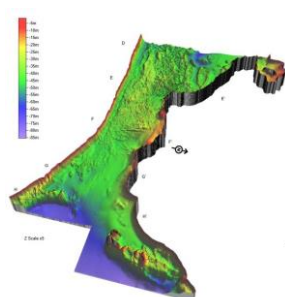
Preliminary Results



Bathymetric map of Blackett.

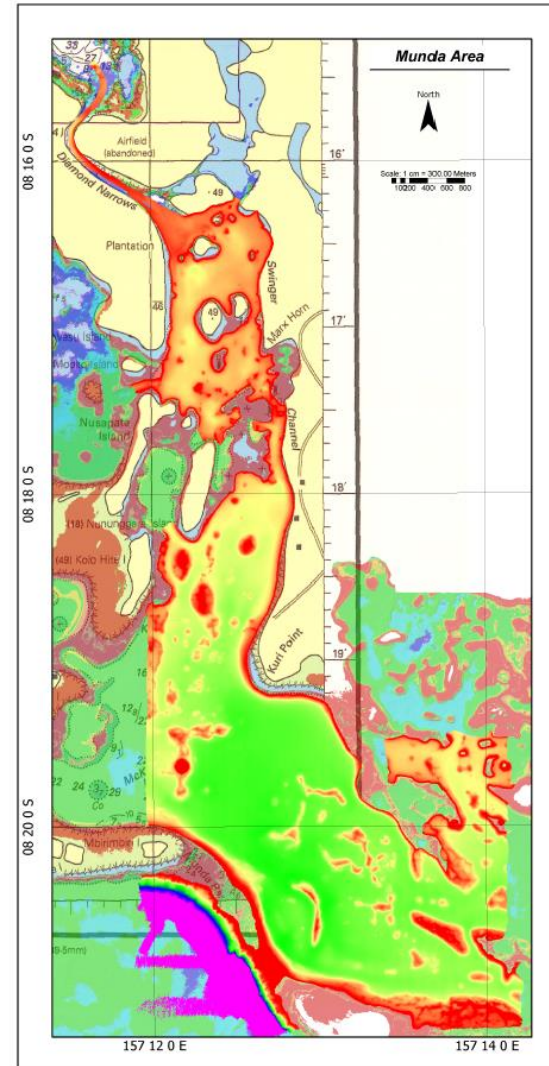


Blackett Strait from NE

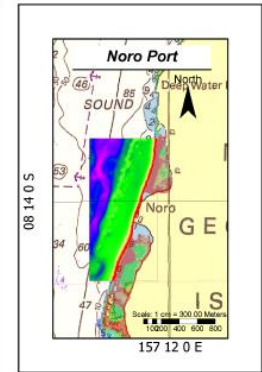


Munda Bar from S

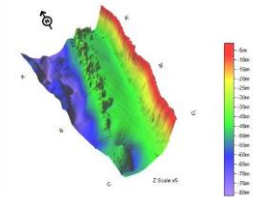
- No extraneous objects were found.
- Data analysis of Noro will be started this year.



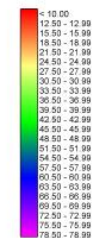
Bathymetric map of Munda Bar



Bathymetric map of Noro port



Noro port from SSW



ENC Project in Solomon Islands

Planned Activities

➤ Production of ENCs and paper charts

– Honiara

- Scales: 1/5,000, 1/20,000

– Noro port

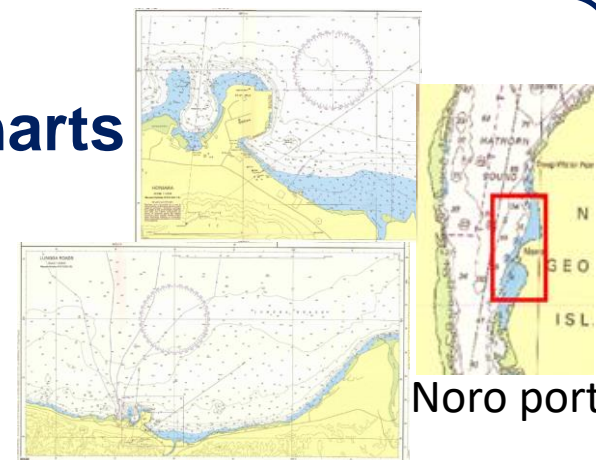
- Scale: 1/5,000 **new chart**

– Munda Bar and Blackett Strait

- Scale: 1/20,000 (Munda Bar) **new chart**,
1/50,000 (Blackett Strait)

➤ ENC QA/QC training at AHO

Coordination with AHO as Primary Charting Authority.

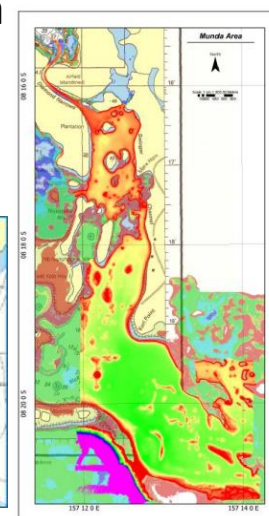


Noro port

Honiara



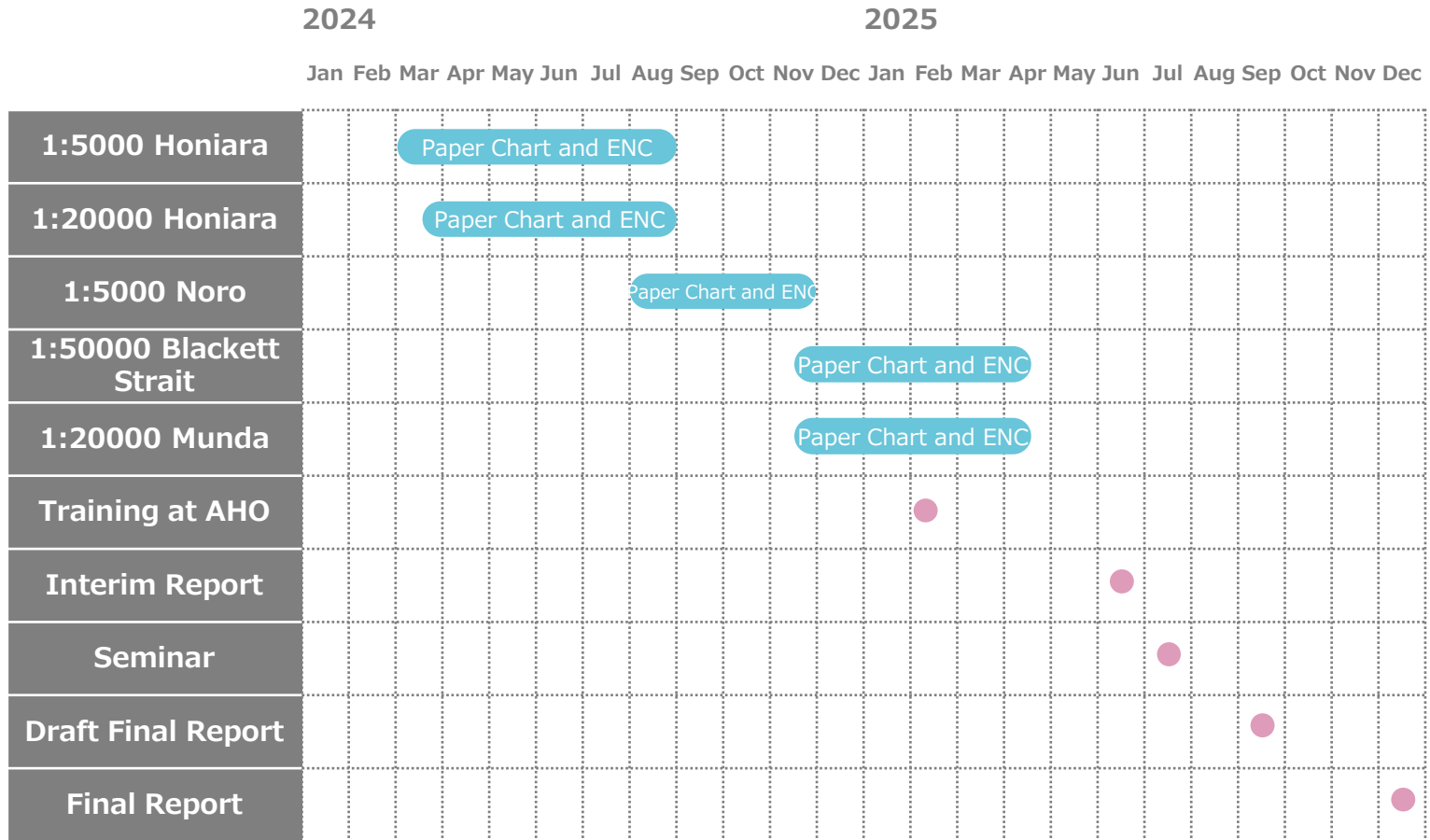
Blackett Strait



Munda bar

Solomon Islands ENC project

Schedule



Japanese Assistance

Japan is prepared to assist the capacity building with the hydrographic survey and charting in the Pacific Region.
If you are interested, please contact us.

**Thank you
for your attention.**

