



21st Meeting of the South West Pacific Hydrographic Commission

National Report by

REPUBLIC OF FIJI ISLANDS



IHO

International
Hydrographic
Organization

South West Pacific Hydrographic Commission



Scope

- Capability
- Current FHS Structure
- Status of Hydrographic Survey
- Status of Nautical Charting
- Main Achievements
- Main Challenges
- Any Matters of Interest
- Way Forward



IHO

International
Hydrographic
Organization



Capability

- **RFNS Volasiga**

- **General Specs**

- Length Overall - 29.6m
- Designed Draft - 2.8m
- Full Loaded displacement - 72 ton
- Fuel capacity – 16,570L

- **Hydrographic Capability**

- Kongsberg Multibeam
- Towed Side Scan
- Acoustic Doppler Current Meter



IHO

International
Hydrographic
Organization



Capability

- **SMB Ika Vuka**

- **General Specs**

- Length Overall - 9m
- Designed Draft - 0.5m
- Full Loaded displacement - 3.5 ton
- Fuel capacity – 380L

- **Hydrographic Capability**

- R2 Sonic Multibeam
- Echosound Single Beam



IHO

International
Hydrographic
Organization



Capability

- **RFNS Kacau**

- **General Specs**

- Length Overall - 45m
- Designed Draft - 2.4m
- Full Loaded displacement - 302 ton
- Fuel capacity – 26,630L

- **Hydrographic Capability**

- Norbit Multibeam
- Towed Side Scan / Sub Bottom Profiler



IHO

International
Hydrographic
Organization



Capability

- **CARTOGRAPHY DEPARTMENT**

- **Equipment**

- 07 x Workstations
- 01 x 44inch Plotter
- 01 x 42 inch Scanner

- **Software**

- Caris Hips and Sips
- Caris Base Editor, Paper Chart Composer, S57 Composer

Products and Services

Navigational Charts

Special Charts (showing 200 Mile EEZ and Maritime Baselines)

Fiji Nautical Almanac (published annually)

Fiji Chart Catalogue

Fiji Notices to Mariners (periodical)

Fiji Coastal Navigational Warning (MSAF)

Nautical information (at the request of customer)

Historical Archive research

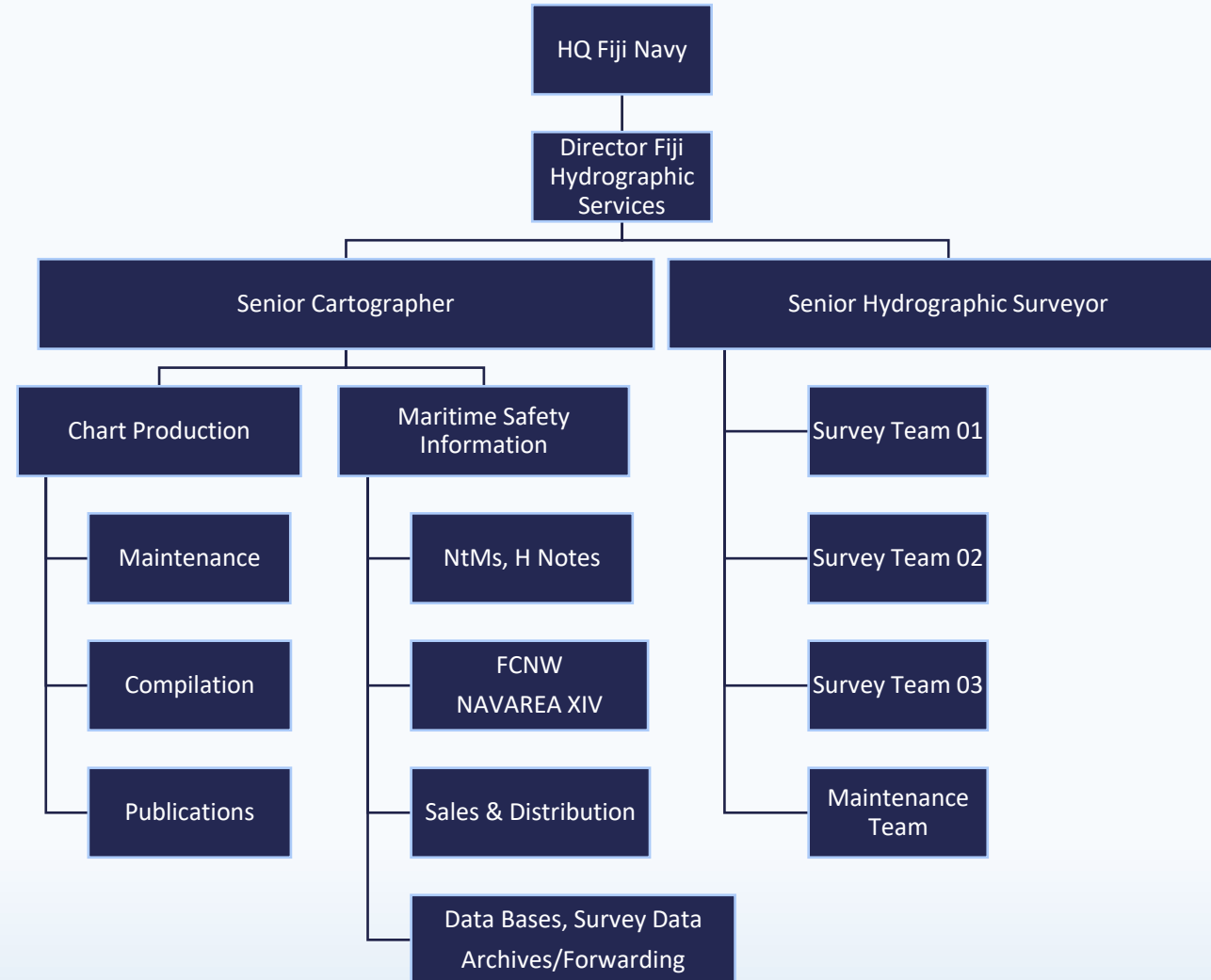


IHO

International
Hydrographic
Organization



Current FHS Structure


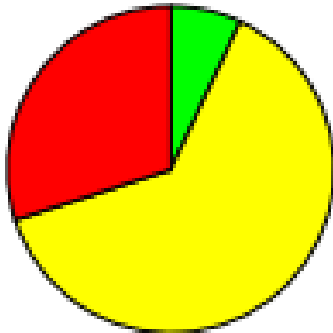
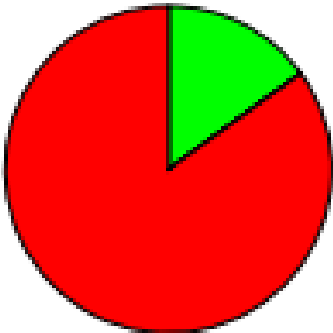




IHO

International
Hydrographic
Organization



Status of Hydrographic Survey

Fiji (L)							
Hydrographic surveying / Levés hydrographiques / Levantamientos hidrográficos							
Survey coverage Couverture hydrographique Cobertura hidrográfica		Depth < 200m Profondeur < 200m Profundidad < 200m			Depth > 200m Profondeur > 200m Profundidad > 200m		
		7	63	30	15	0	85
	Adequately surveyed Correctement hydrographié Adecuadamente levantado						
	Re-survey required Nécessitant de nouveaux levés Requiere nuevo levantamiento						
	Never systematically surveyed Jamais hydrographié systématiquement Nunca levantado sistemáticamente						
Notes Notes Notas	<ol style="list-style-type: none"> 1. Depths fall away quickly beyond the edge of the fringing reefs of the steep to Atolls and Islands. 2. Priority is for modern surveys of the minor ports and anchorages, which are only covered by lead-line surveys. 3. Coverage of the northern coastal areas of Vanua Levu and Vitu Levu 4. Deep seafloor coverage around Southern Group and Heenskerq Reefs 						









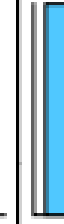












IHO

International
Hydrographic
Organization



Status of Nautical Charting

Fiji (L)											
Nautical charting / Cartographie marine / Cartografía náutica											
Coverage of charts published Couverture des cartes publiées Cobertura de cartas publicadas			Offshore passage Navigation au large Pasaje offshore			Landfall and Coastal passage Atterissage et navigation côtière Recalada y Pasaje costero			Approaches and Ports Approches et ports Aproches y puertos		
	Covered by INT or other paper charts meeting S-4 Couvert par des cartes papier INT ou autres conformes S-4 Cubiertas por cartas de papel INT o otras cumpliendo S-4		100	100	100	100	100	100	100	100	
	Covered by RNC meeting S-61 Couvert par des RNC conformes S-61 Cubiertas por RNC cumpliendo S-61										
	Covered by ENC meeting S-57 Couvert par des ENC conformes S-57 Cubiertas por ENC cumpliendo S-57										
Paper charts showing depth in meters Cartes papier avec les profondeurs en mètres Cartas de papel con profundidades en metros		100 %	Paper charts referenced to a satellite datum Cartes papier rapportées à un système géodésique satellitaire Cartas de papel referidas a un datum satelital			100 %	Data source Source des données Origen de los datos				
Notes Notes Notas	<ol style="list-style-type: none"> 1. Data provided by UK. 2. All UK coverage now metric and WGS84 3. Ports and Approach- Coverage by Charts at scale larger than 1:150,000 4. Coastal Series at scale 1:150,000 - GB744, 745, 746, 747, 748, 749, 750, 751 & 752 5. Coastal coverage at smaller scale 1:400,000 to 1:800,000- GB440, 441 & 2691 6. Passage - Remaining islands are covered by Charts at a scale of 1:1,500,000 										



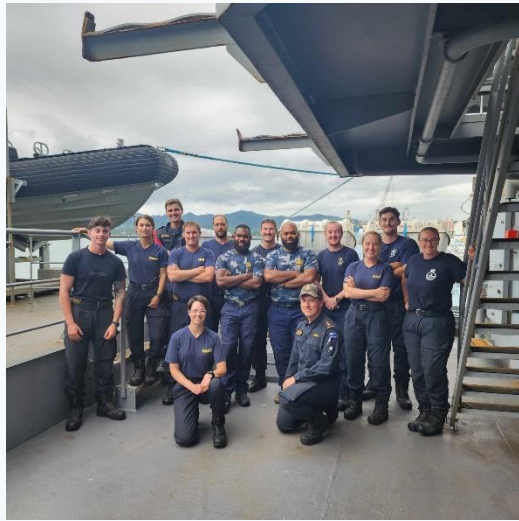
IHO

International
Hydrographic
Organization



Main achievements during the year

- Appointed as V/Chair to SWPHC
- Part of the delegation representing SWPHC and the region to IHO Council
- RNZN capacity building- HMNZS Matataua ship deployment to Fiji



- IC-ENC Membership (49th member)



IHO

International
Hydrographic
Organization



Cont'd...

- Conducted 4 surveys
- Successful UKHO technical visit (October 2023)
- Cat B: S/R (Japan), Basic Hydro (AUS-2), Intermediate (AUS-2)
- Capability to run Basic Branch Training (Hydrography)
- Ability of younger surveyors taking over from the experienced/retiring surveyors



IHO

International
Hydrographic
Organization



Main challenges and/or obstructions

- Lack of national hydrographic recognition
- Requirement for more focused/targeted specialization courses (Carto/Surveyor) as no courses are offered locally
- Retention of skilled personnel
- The maintenance/upkeep of equipment (SMB) – technical expertise are mostly overseas
- IT deficiency – slows down the learning process
- Factoring weather implications on survey
- The inability to conduct deep water surveys (MBES limits)



IHO

International
Hydrographic
Organization



Any other matters of interest

- Acknowledge the contribution of partners
- The request of regional support through hydrographic partnership programs
- Support in transitioning from paper charts – ENC (support in TRG/mentorship/attachment)
- Fiji's Interest: What are the possibilities of providing SDB's in certain areas? What support can be channelled towards this idea?



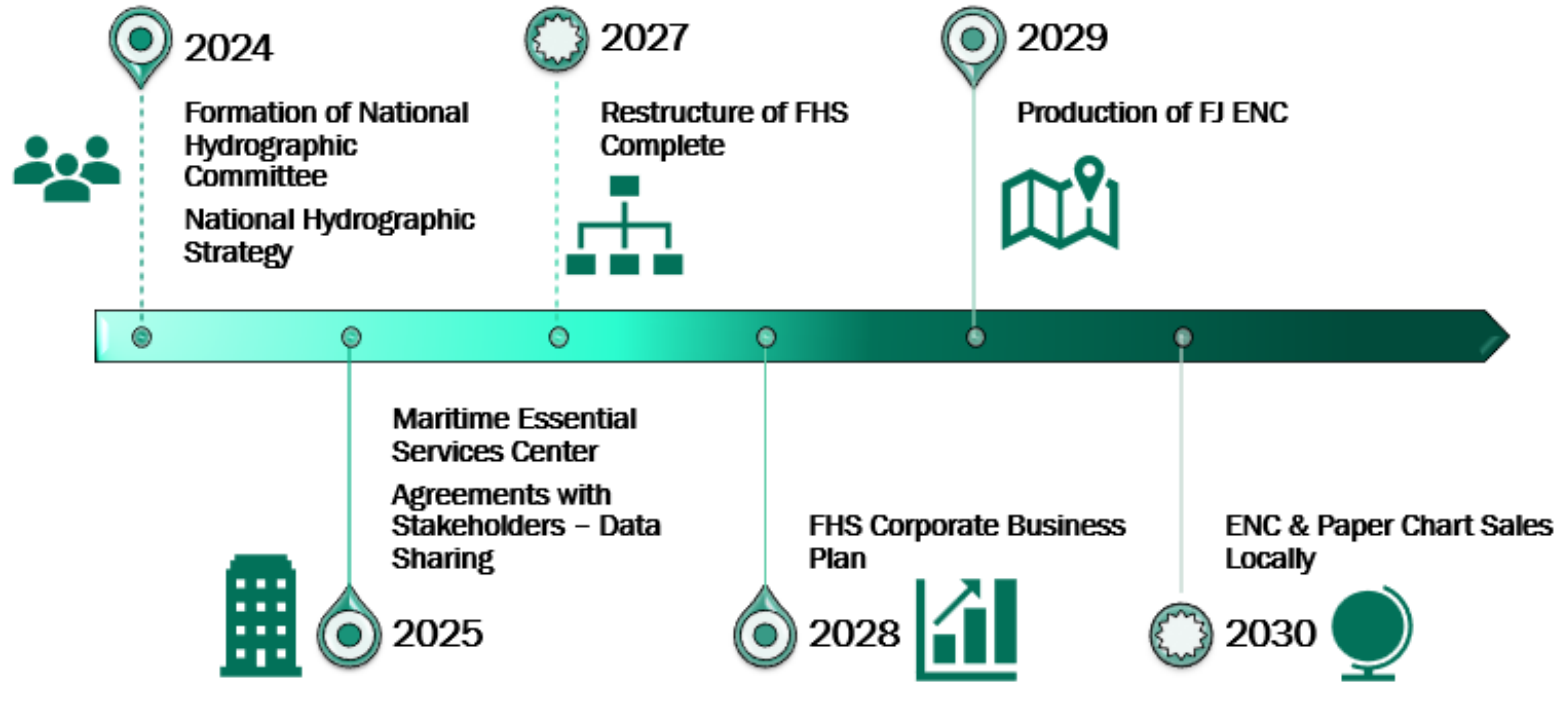
IHO

International
Hydrographic
Organization



Way Forward

FHS RESTRUCTURE AND IMPLEMENTATION PLAN (PROPOSAL)



- Move to the new Maritime Essential Services Centre
- Review of CS/PCA relationship
- Collaborative efforts with regional partners



IHO

International
Hydrographic
Organization

