

Data collection for capture fisheries (logbook, observer, active vessel – prioritizing with size above 30 GT and below, and landing data – stratification and plan) in Indonesia

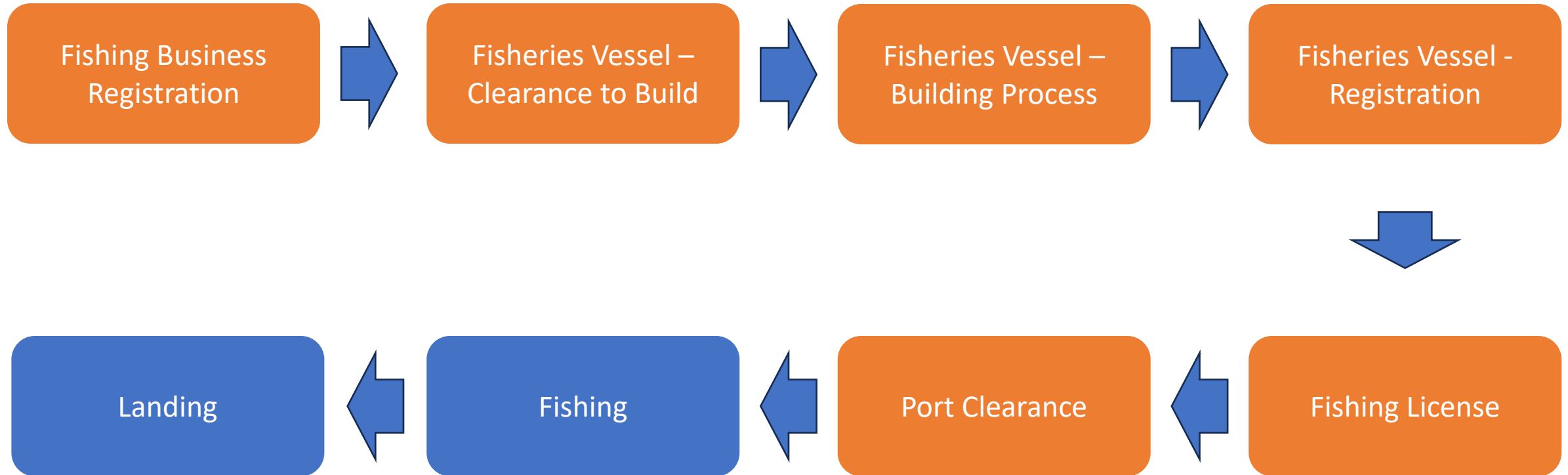
Presented by:

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Directorate of Fish Resources Management, Directorate General of Capture Fisheries

The 17th Indonesian Annual Tuna Fisheries Catch Estimate Review Workshop (ITFACE-17), 9-11 June 2026.

Capture Fisheries Data



Fishing Logbook

Fishing Logbook

	Landing-based Data	Fishing Logbook	Onboard Observer	Port Sampling (Biology Data)
Area coverage	√ √ √ √ √	√ √ √	√	√ √
Catch per trip	√ √ √ √ √	√ √ √ √ √	√ √ √ √	--
Catch per set-haul	--	√ √ √ √	√ √ √ √ √	--
ERS & ETP data	√	√ √	√ √ √ √ √	--
Biology data	--	--	√ √ √ √ √	√ √ √ √ √
Accuracy on catch data in a trip	√ √ √ √ √	√ √ √	√ √ √ √ √	--
Fishing ground data	--	√ √ √ √	√ √ √ √ √	√

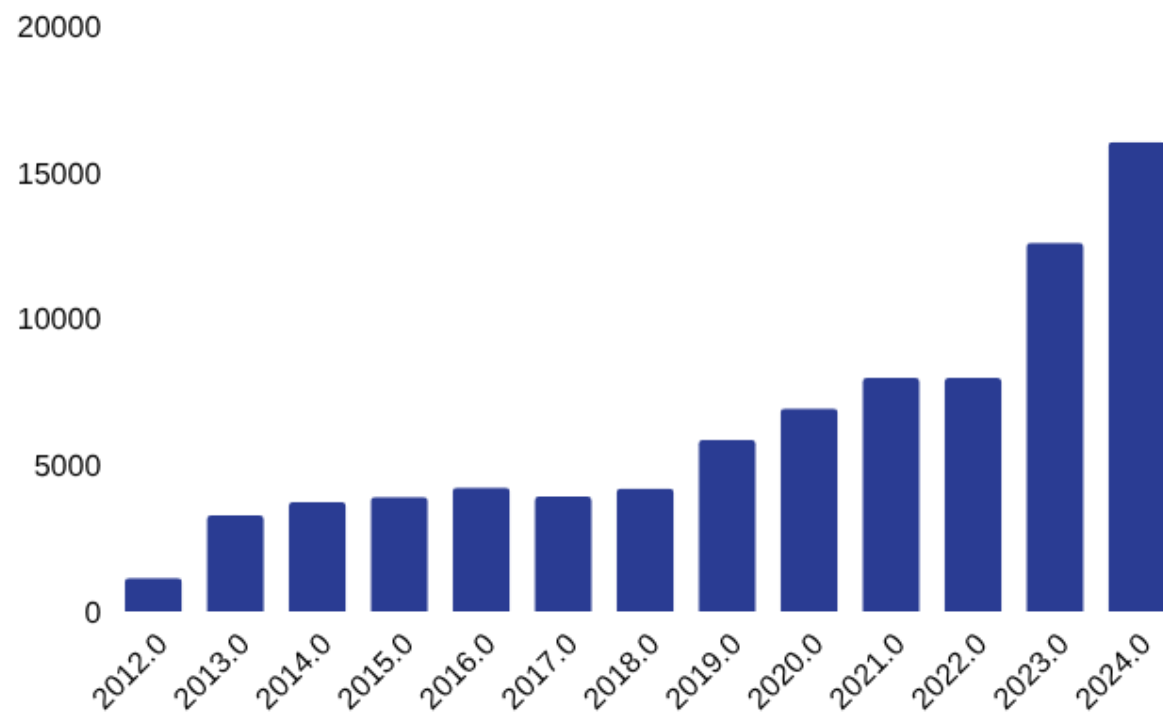
Fishing Logbook

1	operational_days
2	number of operational day
3	id logbook
4	id setting
5	date_departure
6	date_landing
7	port_departure
8	port_landing
9	vessel name
10	id fishing license
11	tonnage marking
12	id vessel certificate
13	gt of vessel
14	type of license
15	name_company
16	gear
17	name_captain
18	number of crews
19	name_fishing_ground

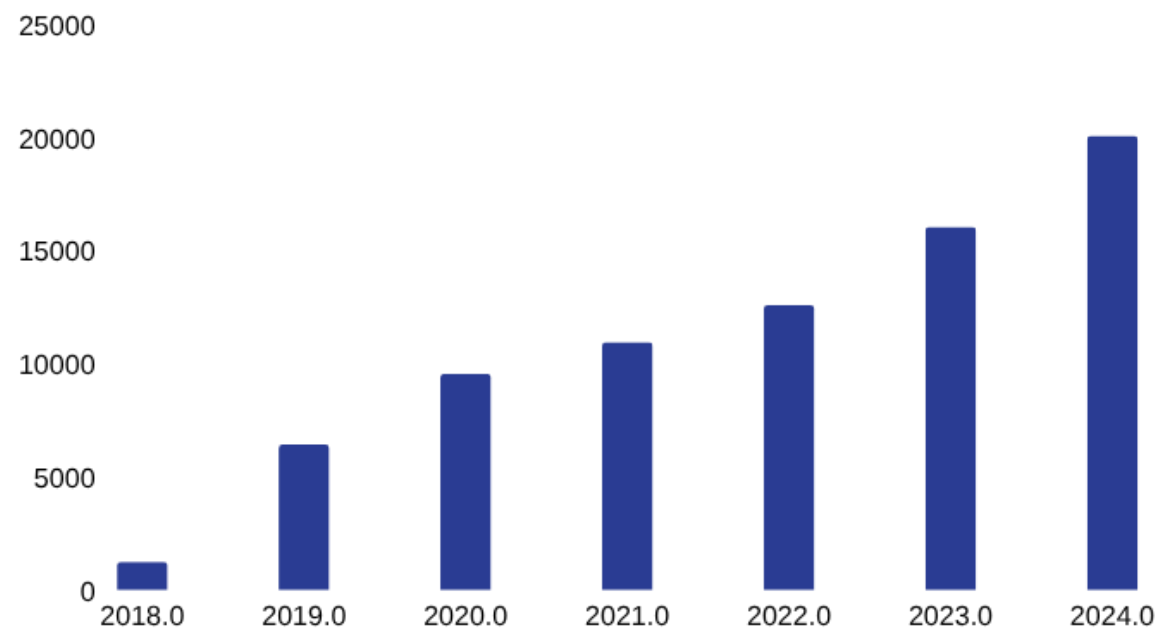
20	id_fma_license
21	latitude
22	longitude
23	setting_date
24	setting_start
25	setting_end
26	hook_number
27	hook_between_float_number
28	hook_distance
29	fad_status
30	fish_indonesian_name
31	fish_scientific_name
32	fish_fao_code
33	elogbook
34	vms_status
35	port_clearance_number
36	port_clearance_crew_number
37	AREA_FMA
38	AREA_CCSBT

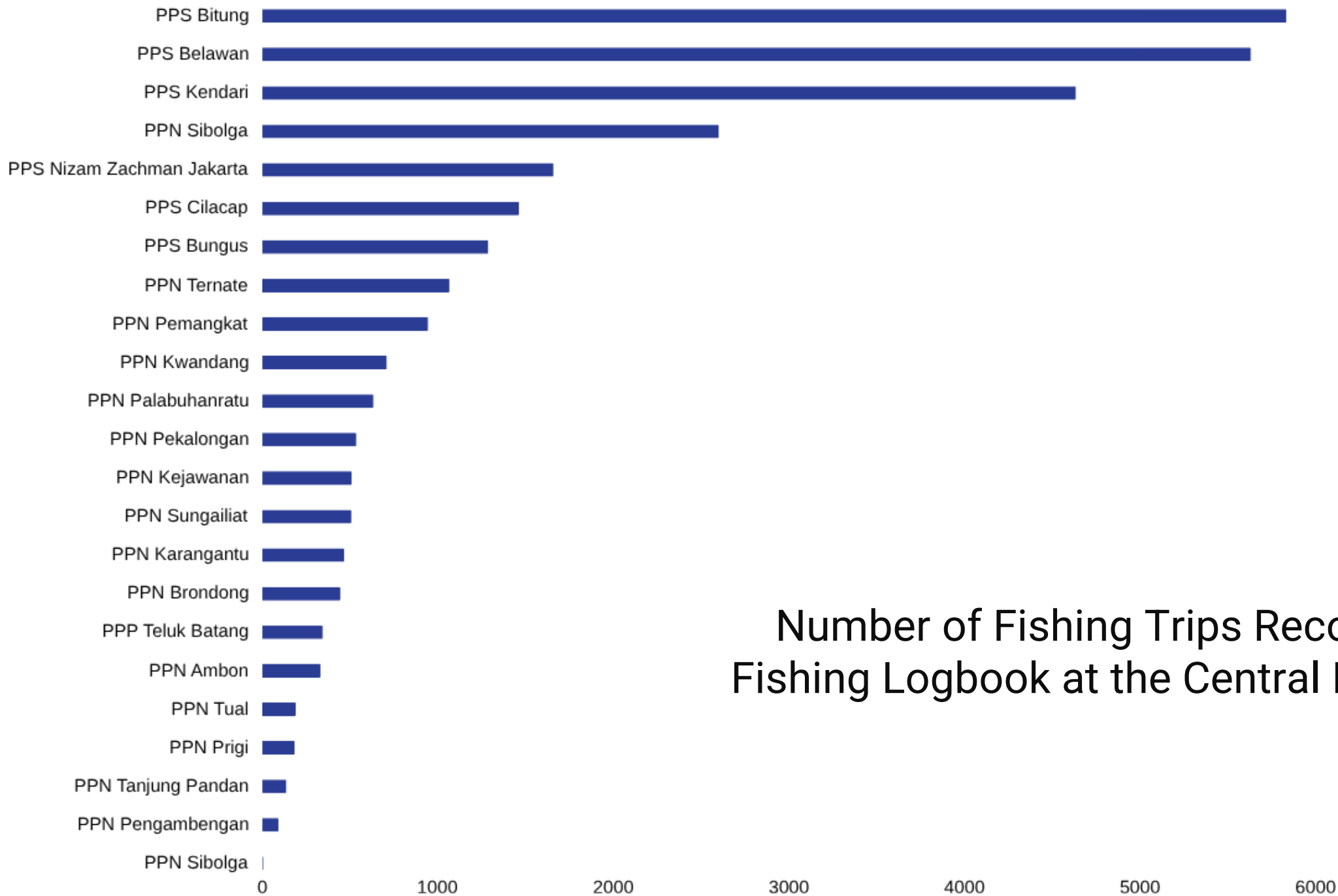
Fishing Logbook

Number of Vessels Implementing *Log Book*

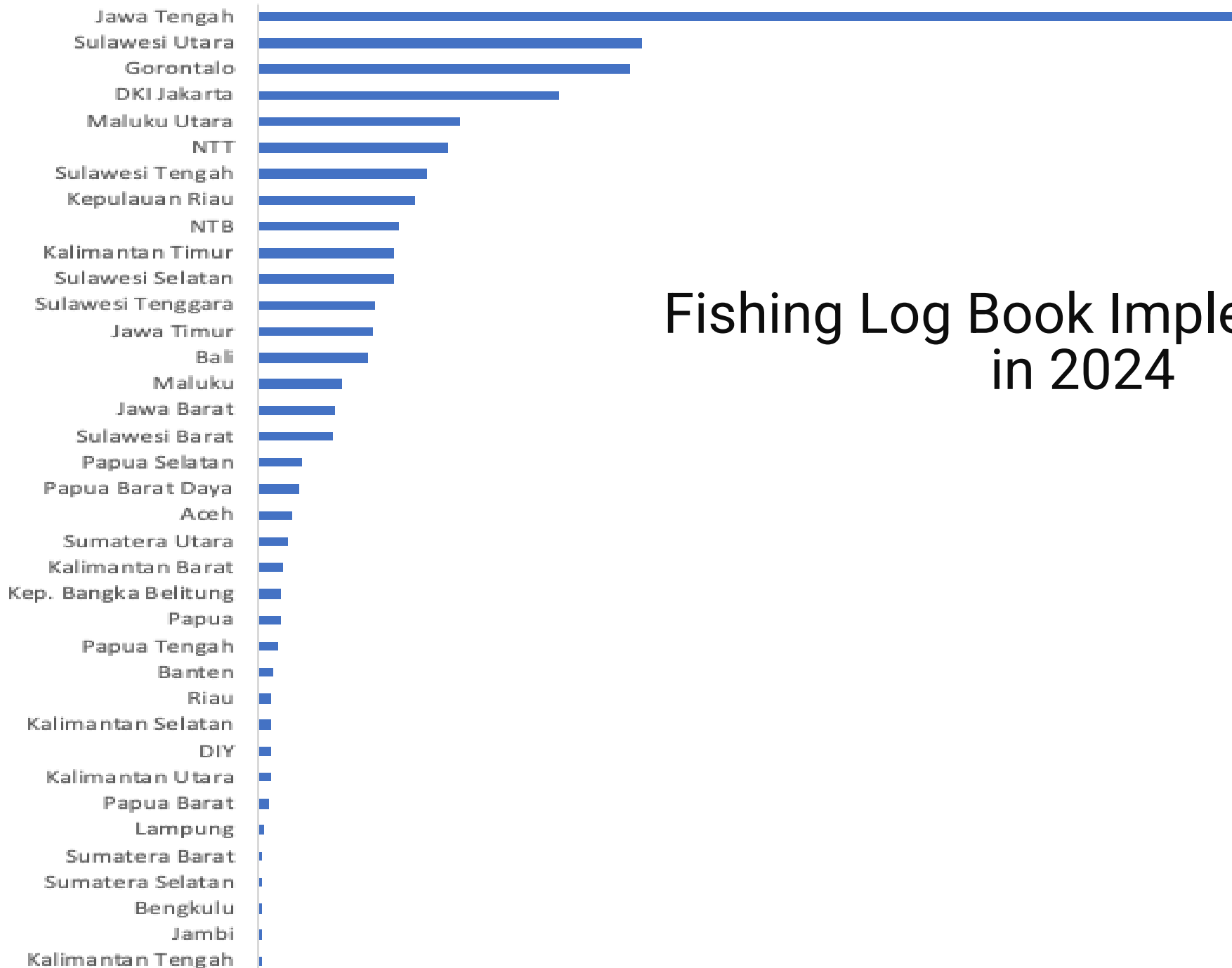


Number of electronic number account





Number of Fishing Trips Recorded by
Fishing Logbook at the Central FP in 2024



Fishing Log Book Implementation in 2024

Fishing Logbook - challenges

1. Accuracy on fish species.
2. Compliance during operation.
3. ERS-ETP species.
4. Master data management.
5. Gear-license terms.

Fishing Logbook - plans

1. Enhance the e-logbook apps.
2. Integration with other apps: e-PIT (quota-based fishing license), harbor master, etc.
3. Master data management improvement: fish, gear, vessel.

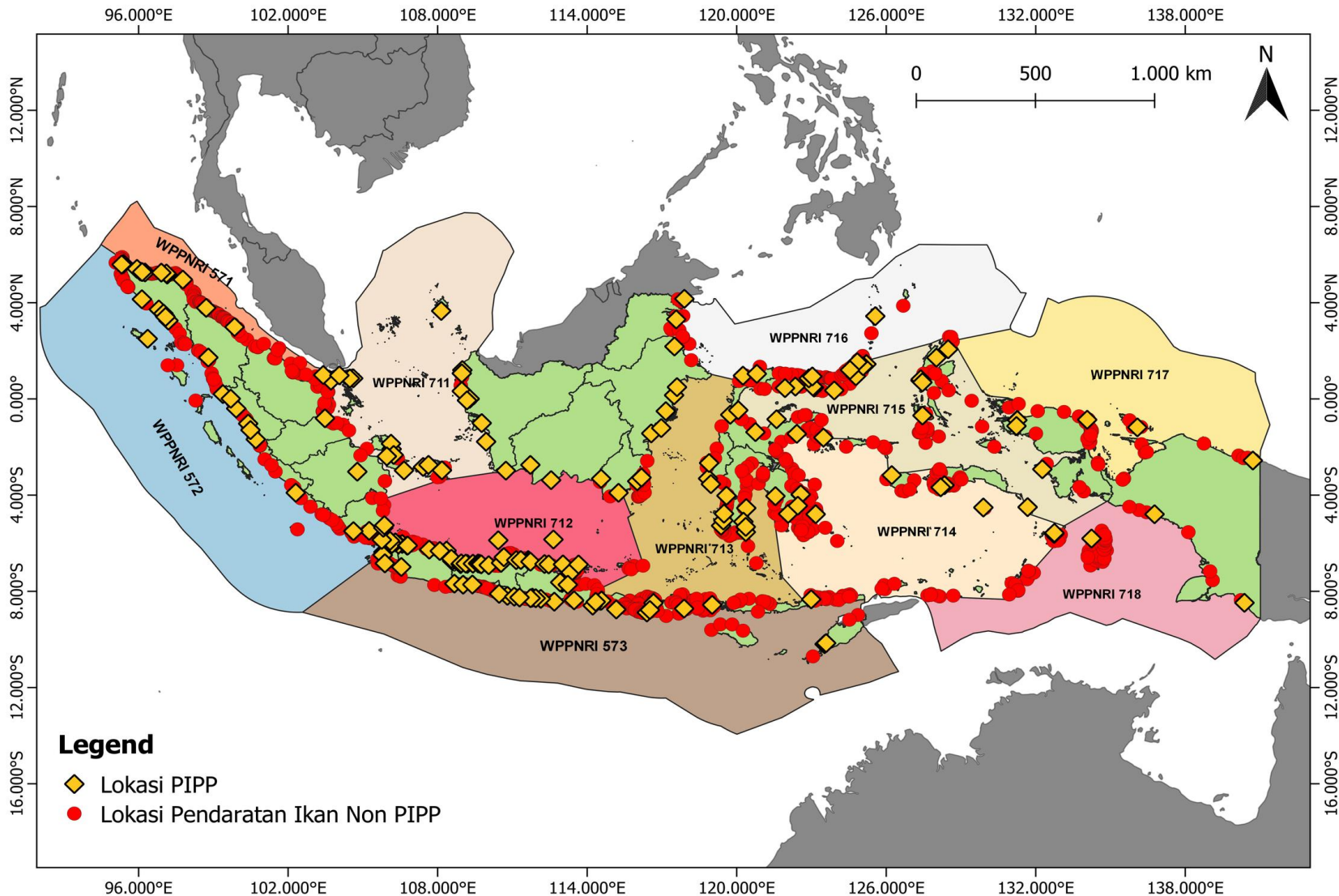
Onboard Observer

Onboard Observer - challenges

1. Vessel owners' declination.
2. High demand – low number of observers.

Landing-based Data Collection

Landing-based Catch Data



1.195
Landing Sites

202
PIPP Location

Pusat Informasi Pelabuhan Perikanan –
Fishing Port Information Centre

Landing-based Data

Statistics

Focus on catch
at non-port landing sites.

PIPP

Focus on catch
at fishing port.

Port Sampling

Focus on biology data.

Landing-based Data

Port Sampling
Focus in biology data.

Who do conduct the biology sampling?

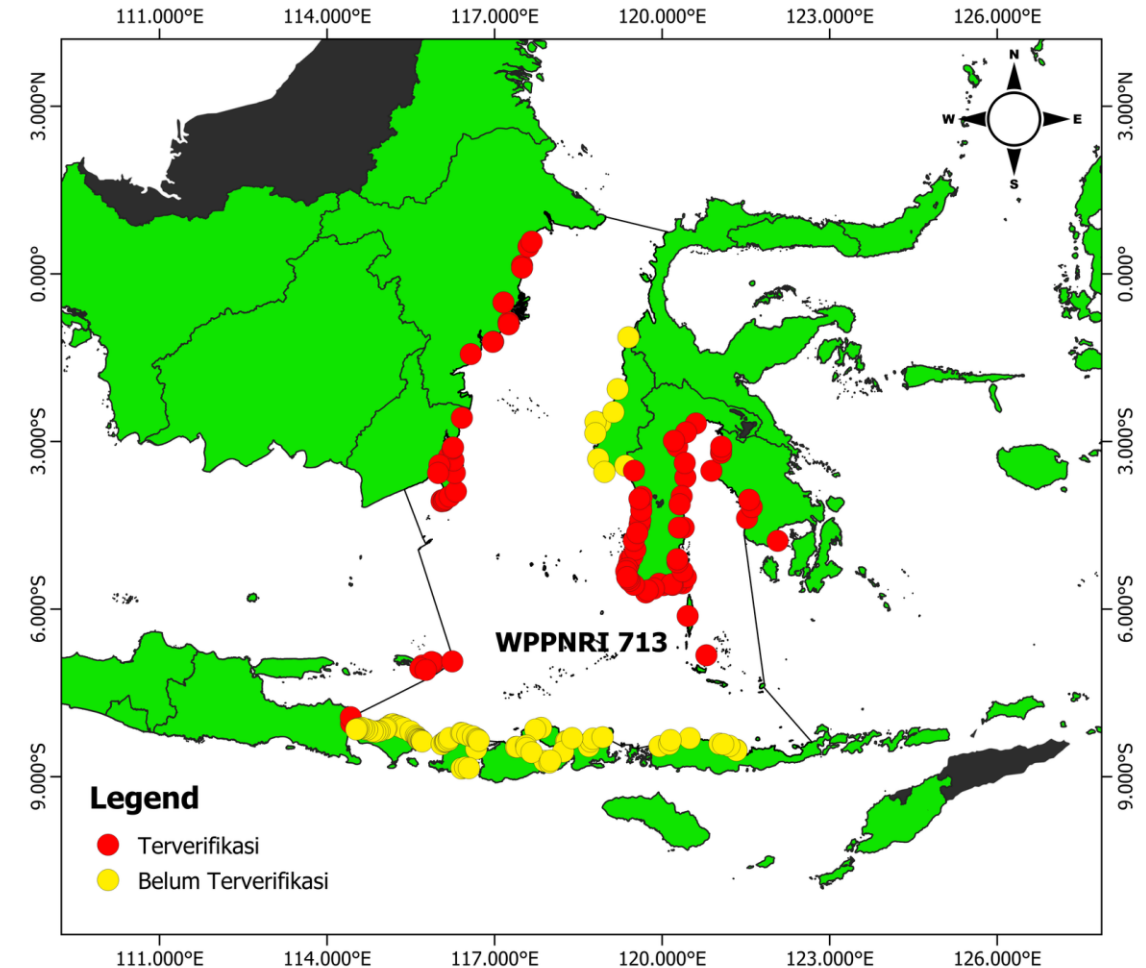
1. WPEA
2. NGOs
3. DGCF
4. Research Centre – MMAF (e-BRPL)

Data collected:

1. Catch (sp, size).
2. Activities (gear, time, area).

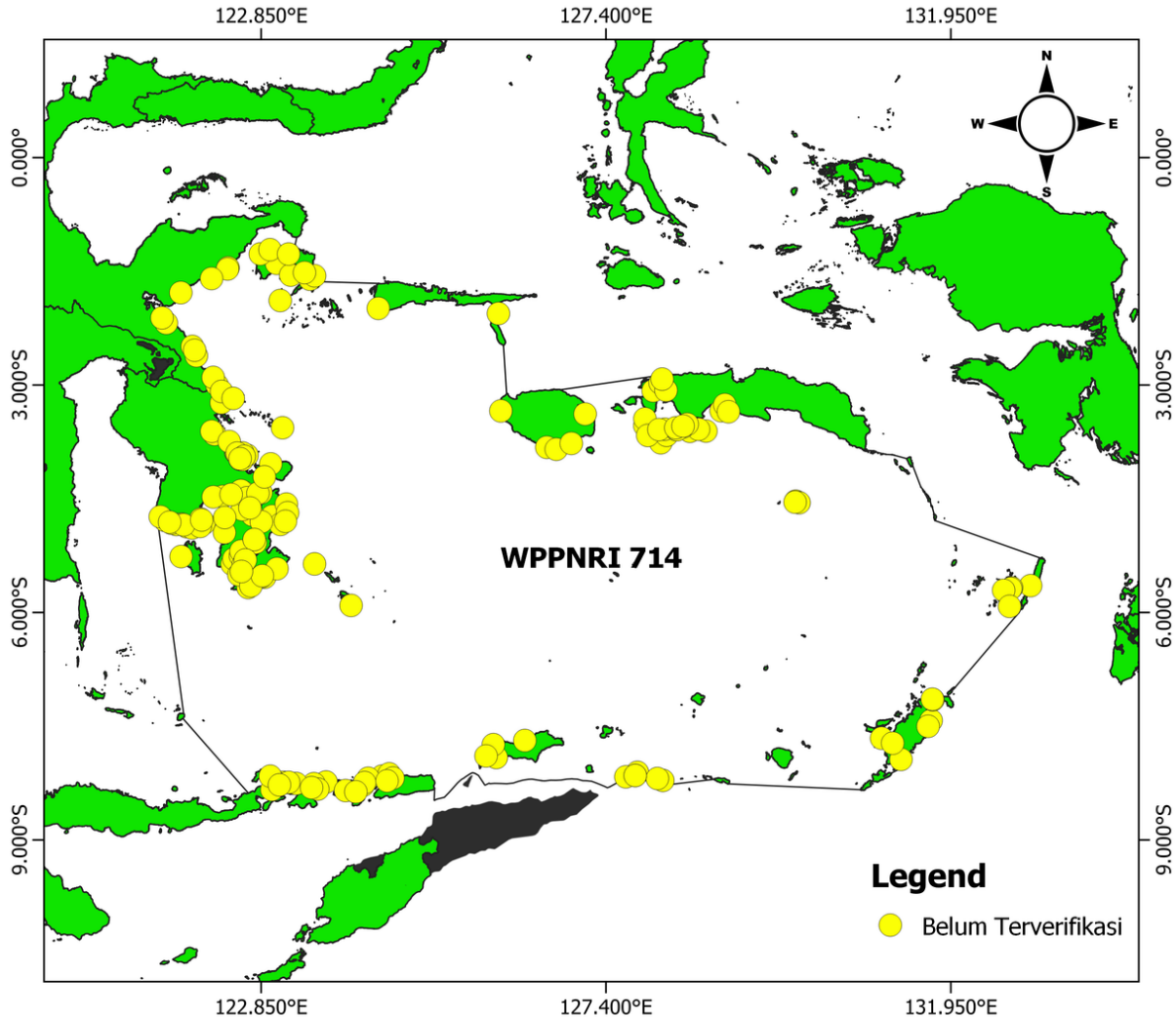
Port Sampling at FMA 713: 86/162 Verified Landing Sites

Fish Survey at the Port Sampling Site in FMA 713	
Province	Status
Bali	 On going ▾
East Java	 Done ▾
South Kalimantan	 Done ▾
East Kalimantan	 Done ▾
NTB	 On going ▾
NTT	 On going ▾
West Sulawesi	 On going ▾
South Sulawesi	 On going ▾
Central Sulawesi	 On going ▾
Southeast Sulawesi	 On going ▾



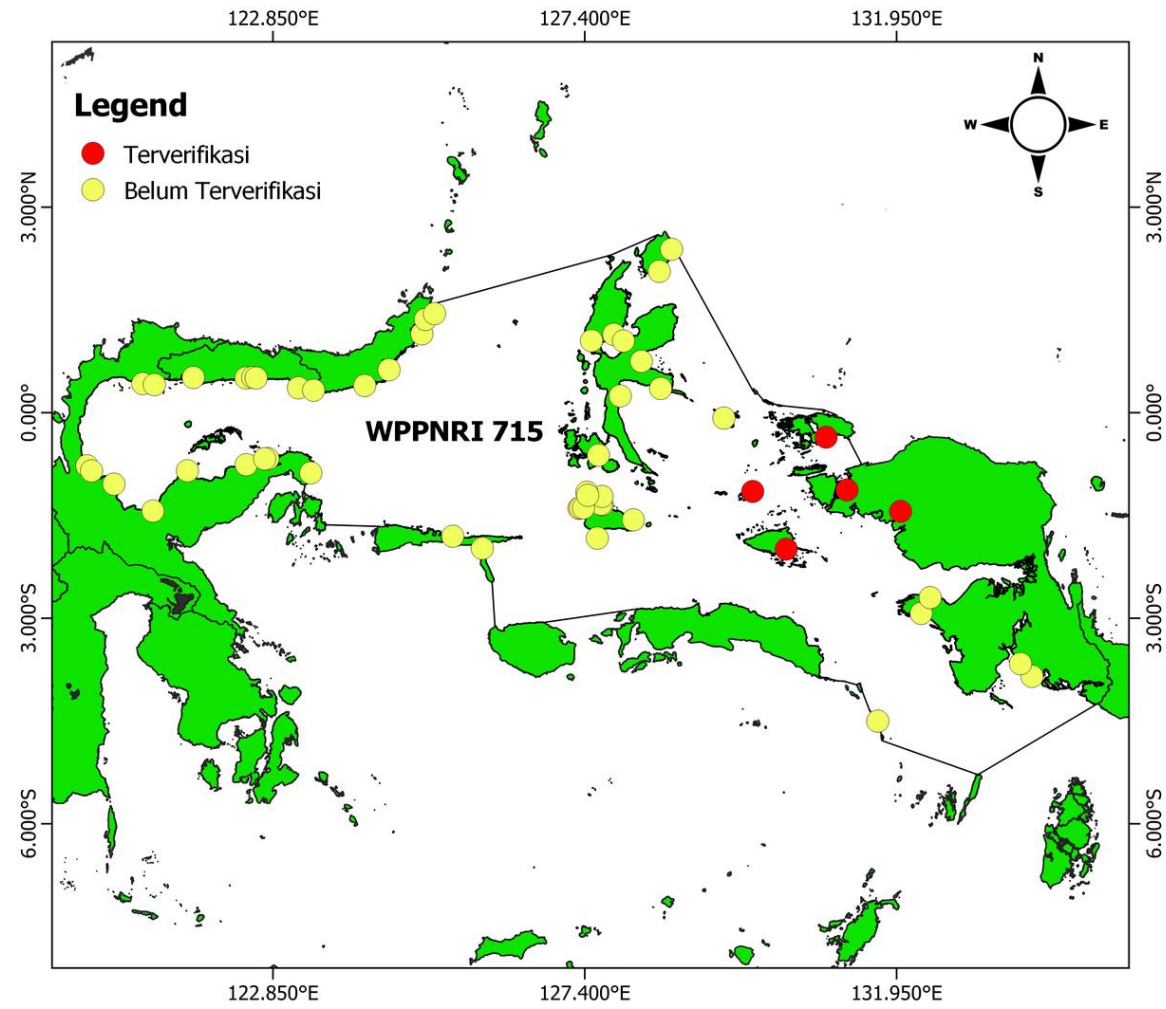
Port Sampling at FMA 714: 165 Landing Sites

Fish Survey at the Port Sampling Site in FMA 714	
Province	Status
North Maluku	On Going ▾
Maluku	On Going ▾
NTT	On Going ▾
Central Sulawesi	On Going ▾
Southeast Sulawesi	On Going ▾



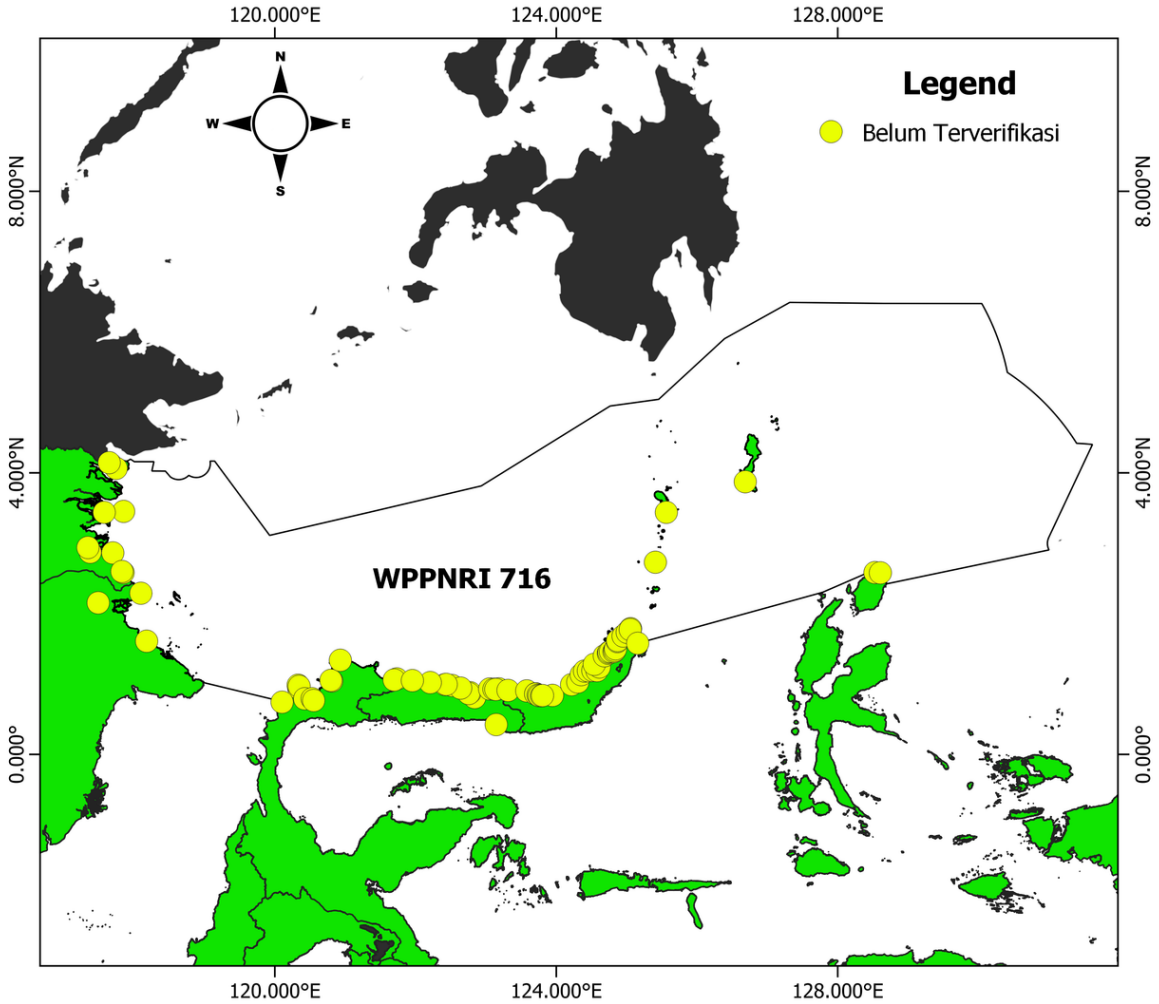
Port Sampling at FMA 715: 11/54 Verified Landing Sites

Fish Survey at the Port Sampling Site in FMA 715	
Province	Status
Gorontalo	On Going ▾
North Maluku	On Going ▾
Maluku	On Going ▾
Southwest Papua	✓ Done ▾
West Papua	On Going ▾
Central Sulawesi	On Going ▾
North Sulawesi	On Going ▾



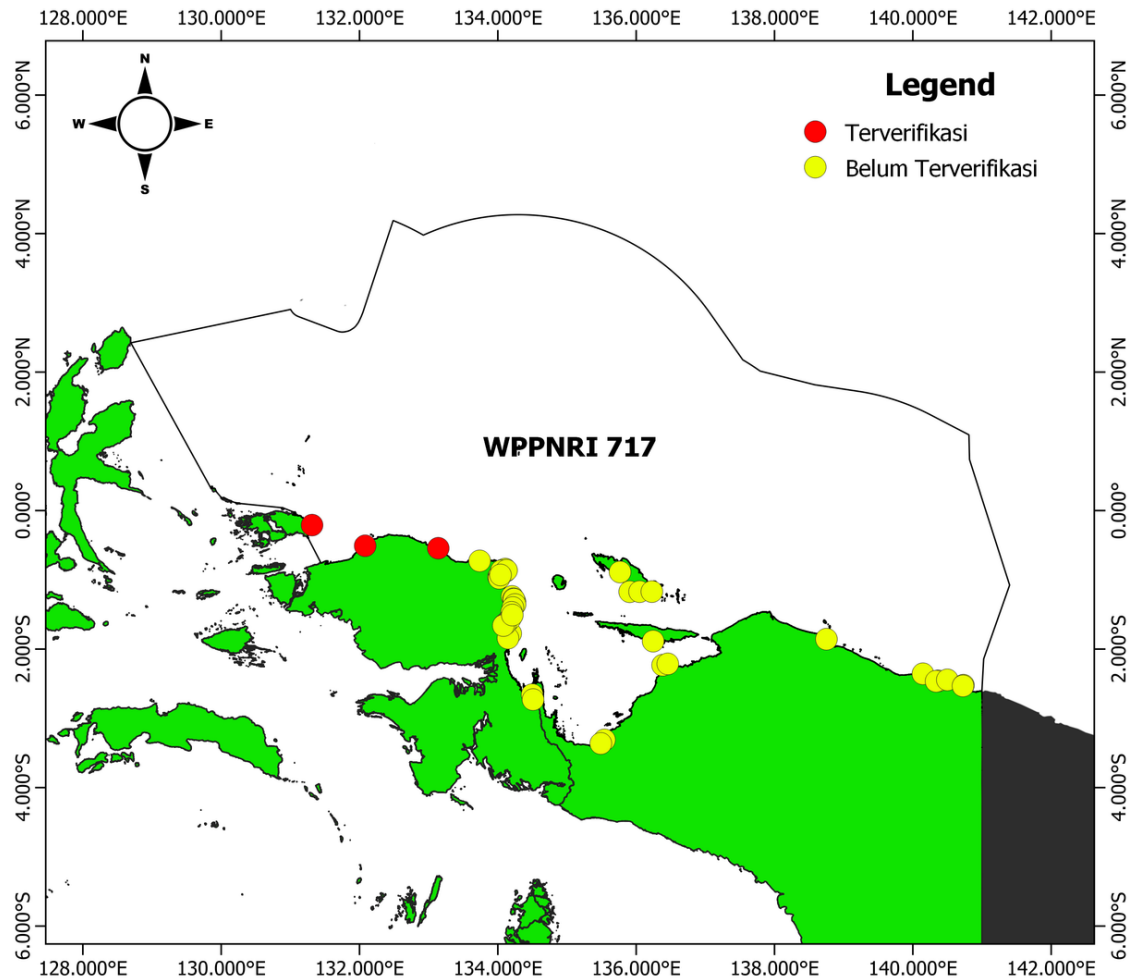
Port Sampling at FMA 716: 79 Landing Sites

Fish Survey at the Port Sampling Site in FMA 716	
Province	Status
Gorontalo	On Going ▾
East Kalimantan	On Going ▾
North Kalimantan	On Going ▾
North Maluku	On Going ▾
Central Sulawesi	On Going ▾
North Sulawesi	On Going ▾

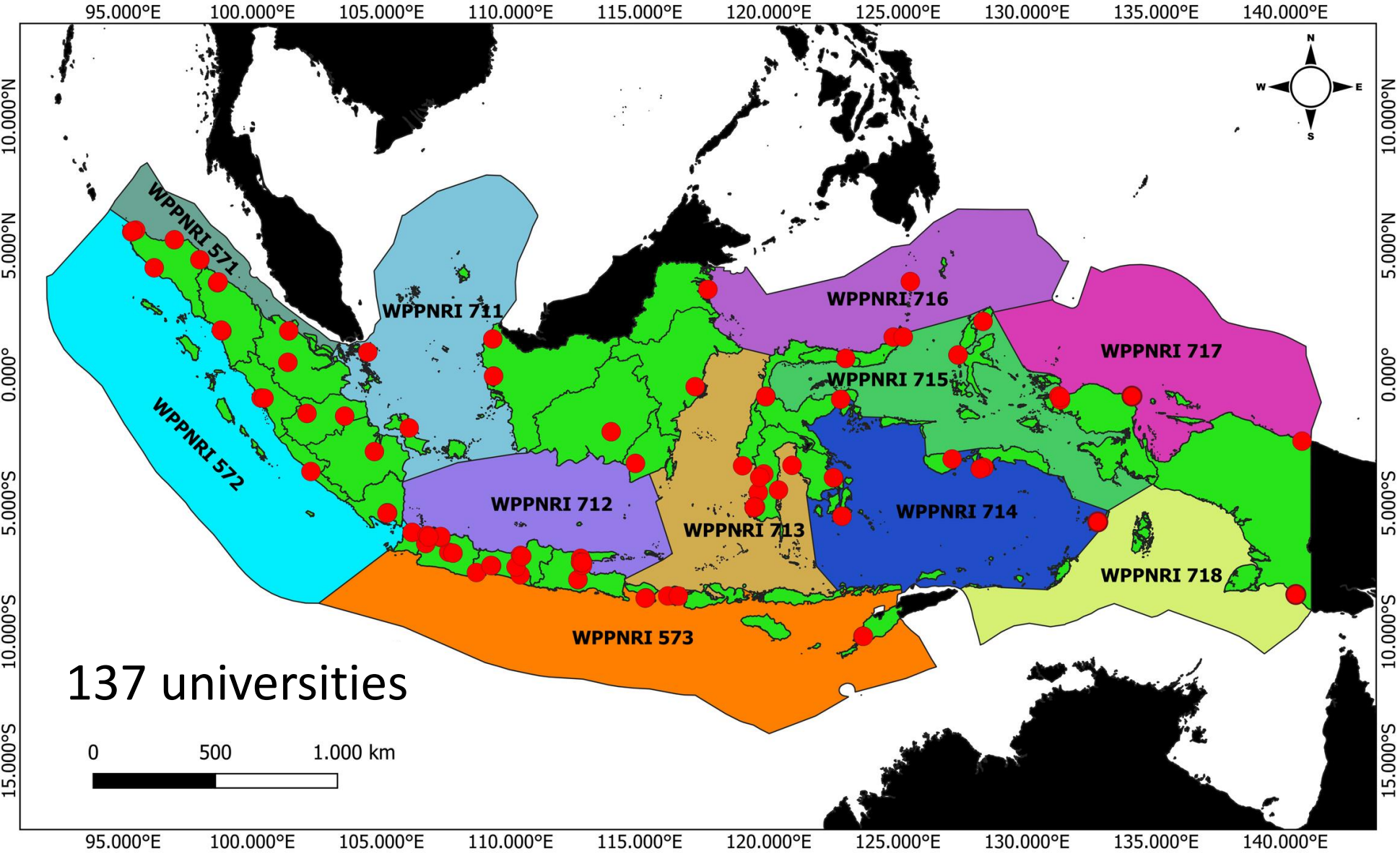


Port Sampling at FMA 717: 6 of 51 Verified Landing Sites

Fish Survey at the Port Sampling Site in FMA 717	
Province	Status
Southwest Papua	✓ Done ▾
West Papua	On Going ▾
Central Papua	On Going ▾
Papua	On Going ▾

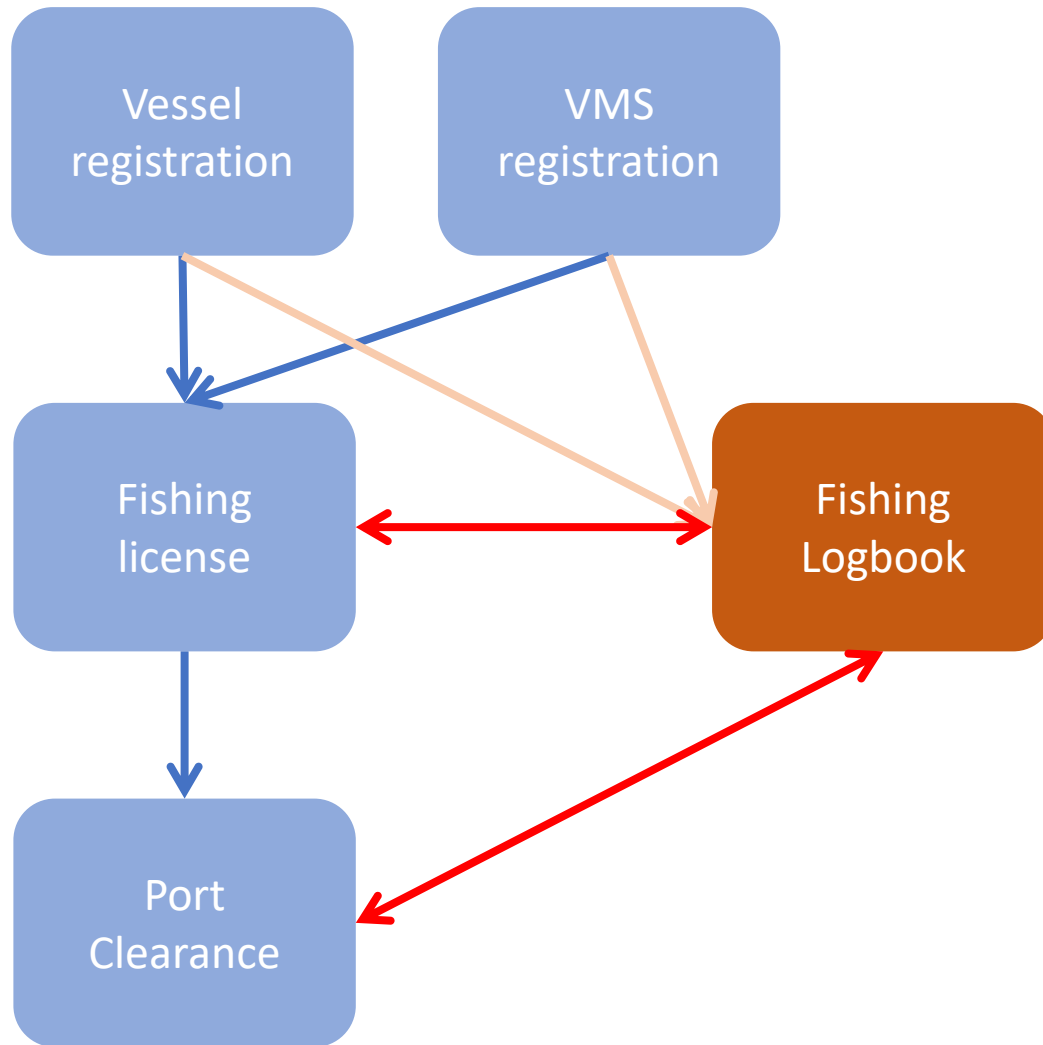


Universities with the Fisheries Major



Data Management

Data Management: integration



Master-data sharing system

1. Vessel registration id
2. Fishing license id
3. Port clearance
4. VMS id
5. Fish name/code.

Data Management: traceability



Data Management: integration



Data Management Team: Scientific Service Provider (SSP), UPP WPPNRI Scientific Panel, Secretariat of the Directorate General, Directorate of Fisheries Ports, UPP WPPNRI Data Working Group, Fish Resources Data Working Group, and Fisheries Port Monitoring and Analysis Working Group.

Data Management: integration

1. Check the data variables across the data collector unit.
2. Master data development.
3. Data flow from data collector unit to DGCF database.
4. Data security.
5. Data process and analyze.

Thank you.