

The project for Improvement of the coast guard capability of the three Micronesian countries supported by The Nippon Foundation



2013

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1. Background

- ◆ Three Micronesian States (Republic of Palau, Federated States of Micronesia, Republic of the Marshall Islands) have huge area of Exclusive Economic Zone (EEZ). However, their maritime surveillance capacity is not enough.
- ◆ Under this circumstance, the assistance project for capacity upgrading of maritime surveillance are required, based on the cooperation of relevant states including United States, Australia and Japan.

2. Previous Meetings

- **The Origin:**

This initiative was welcomed during 8th Micronesian President's Summit in 2008

- 6 Nations and 2 NGO Meetings;

- 1st Meeting in Tokyo, March 2010

- Assistance Plan based on fact-finding missions was reported and discussed

- 2nd Meeting in Guam, June 2010

- Amended Assistance Plan was discussed by experts

- 3rd Meeting in Palau, November 2010

- Assistance Plan was unanimously approved and agreed to be implemented from fiscal year of 2011

3. Purpose and Goal of the Project

- ◆ The purpose of this project is to strengthen
 - Maritime surveillance capacity against illegal fishery
 - Search and Rescue, Disaster prevention capacityfor the peace and order of the sea in the Micronesian region

- ◆ Patrol boat, that was donated by the Australian government (30m length, build around 1980) is mainly working for offshore part of EEZ. It is difficult to patrol in the shore side area. In this project, we provide small patrol craft to enhance the maritime surveillance capacity in shore area.

- ◆ By upgrading communication capability, improve the efficiency of maritime surveillance activity.

4. Outline of Assistance Plan

1) Providing following facilities which needs prompt assistance and are agreed with the recipient countries.

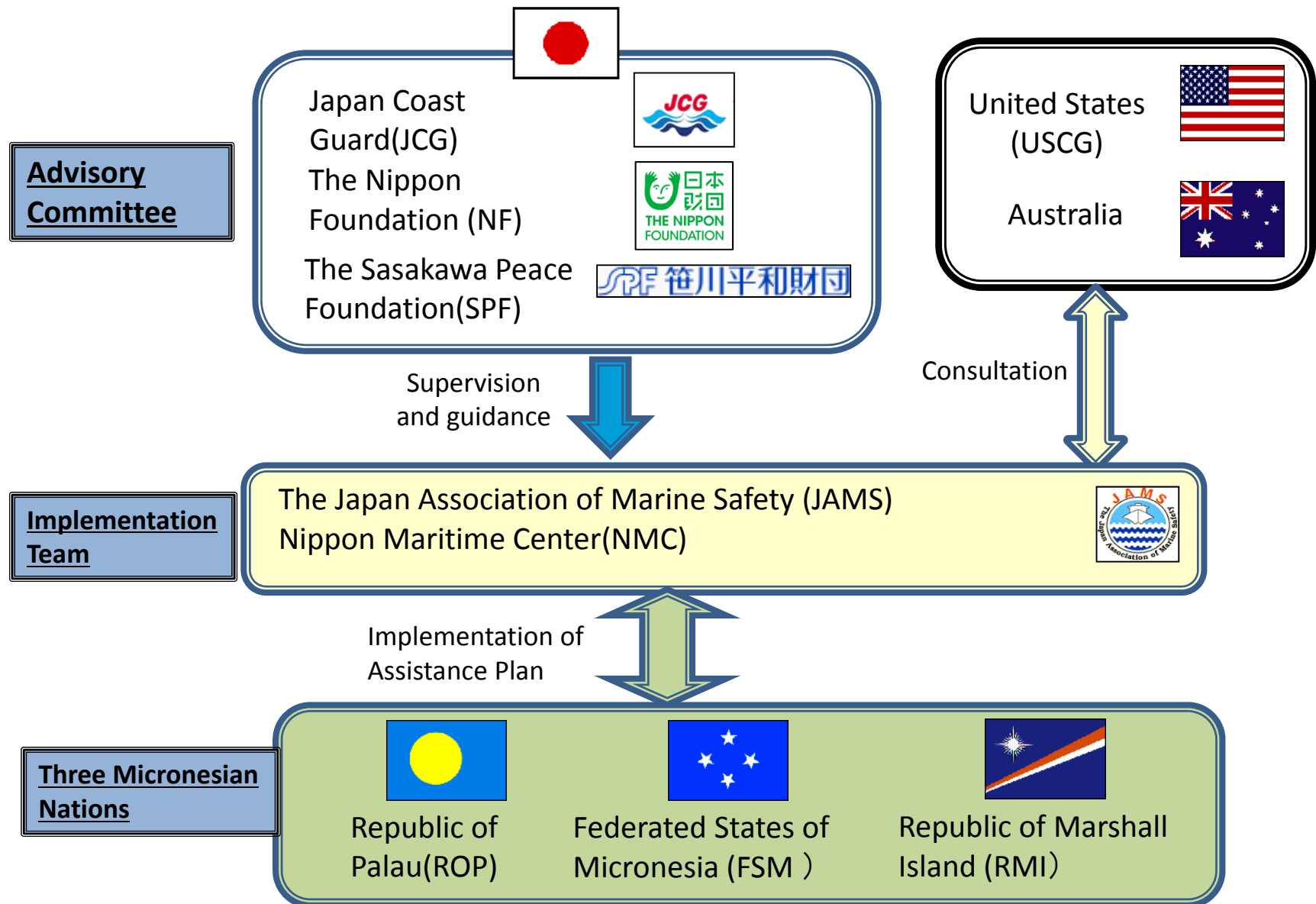
- ① Small craft (one boat for each state, ready-made 15m-long-type, FRP-hull, coastal multi-purpose/mission)
- ② Communication system (new HF antenna, set-up of VHF repeater system, introducing satellite communication system)
- ③ Emergency power generator (for Palau only)

2) Providing following cost, for the actual and best utilization of the above-mentioned provided facilities until the end of March 2020.

- ① Fuel cost for the operation of small craft
- ② Spare parts and periodical replacement parts, direct guidance/training for high-tech maintenance work for small craft
- ③ Fuel cost for the participation of “Regional Surveillance Operation” coordinated by FFA
- ④ Satellite communication fee

* Establishment of Coordination Center for Micronesia Region (CCMR) and Feasibility study and environment impact assessment towards construction of a fuel tank in Kapingamarangi will be discussed after the above support measure was implemented

5. Organization structure for implementation of the project



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Sample of Small Patrol Craft



【Specification】

- Length: About 15m
- Gross Tonnage: About 12t
- Maximum number of People on Board About 14 persons
- Diesel Engine Specification:
Maximum power: About 650 PS
- Number of Engine: 1
- Number of Shaft :1
- Maximum Speed : About 30 knots
- Normal Cruising Speed: About 20 knots
- Cruising Distance : About 400NM (2/4)

Onboard Equipment

【Example of Equipment】



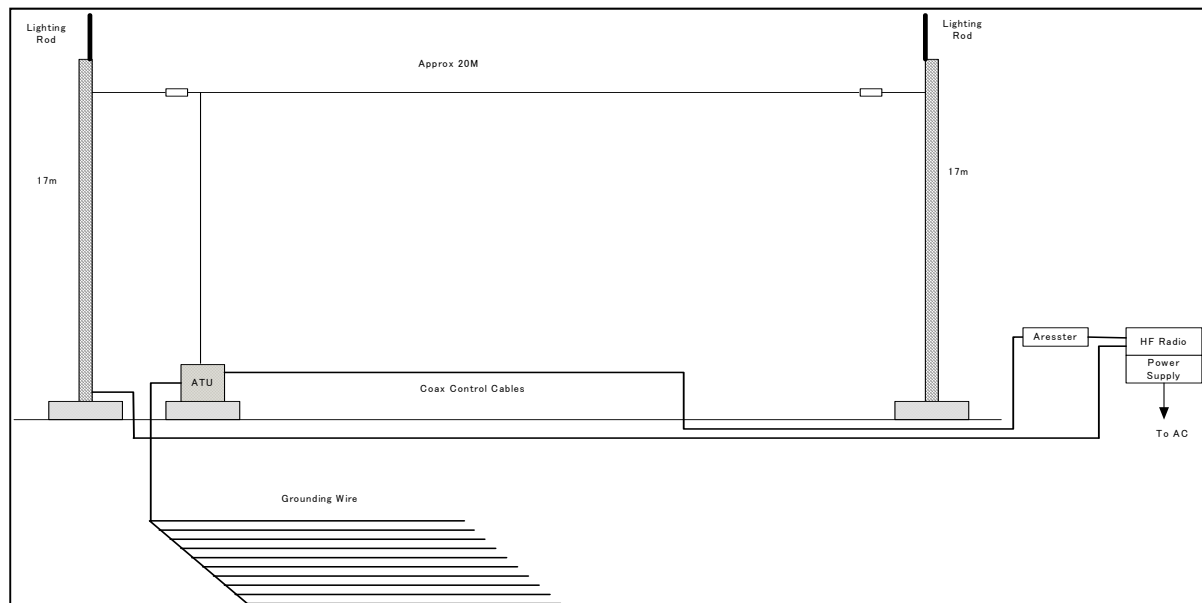
- Radar
- Electric Chart
- GPS Receiver
- Echo Sounding device
- Integrated Navigational device
- HF/VHF radio TX/RX device
- Satellite Communication system
- Life jacket, EPIRB
- Search Light
- Medical kit

Upgrading Communication Capacity

■ HF on shore radio equipments (FSM, ROP)

- Building broad range dipole antenna
- Replacement of radio equipment and enhancement of TX power (150W → 250W)

【Image of Antenna】



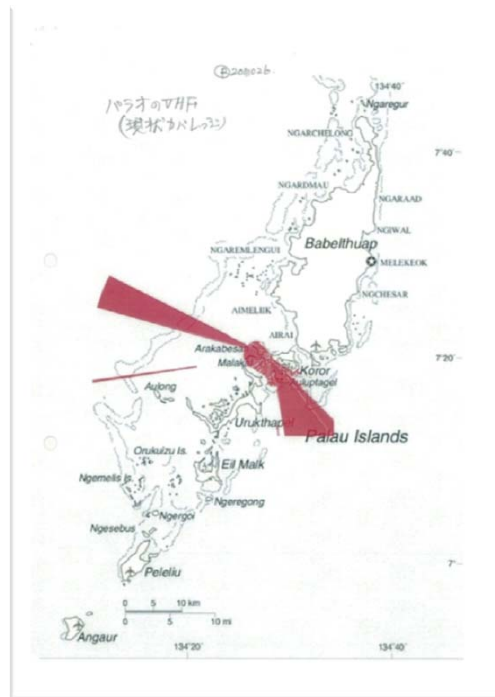
Upgrading Communication Capacity

■ VHF on-shore radio equipment (FSM, ROP)

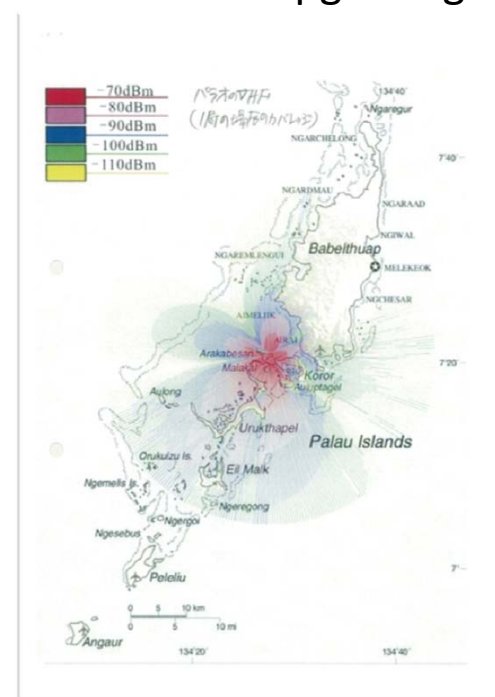
- Constructing Repeater Antenna on the top of the hill

Sample model of the result of simulation for communication range

Current situation



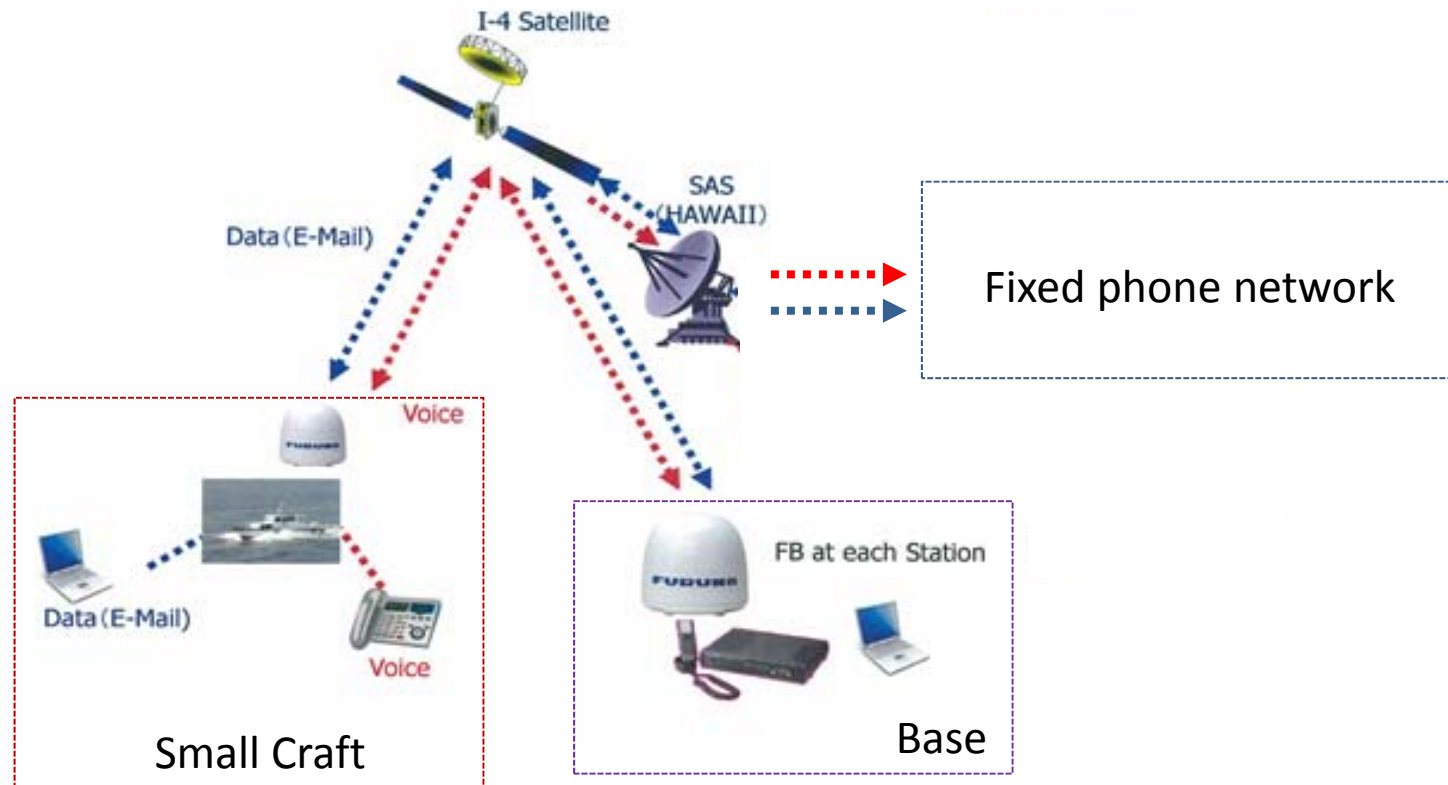
After the upgrading



Upgrading Communication Capacity

■ Satellite Communication Equipment (FSM, ROP, RMI)

- Setting up Satellite antenna and terminal on the small craft and MSU Base
- Providing Communication expenses up to a certain limit

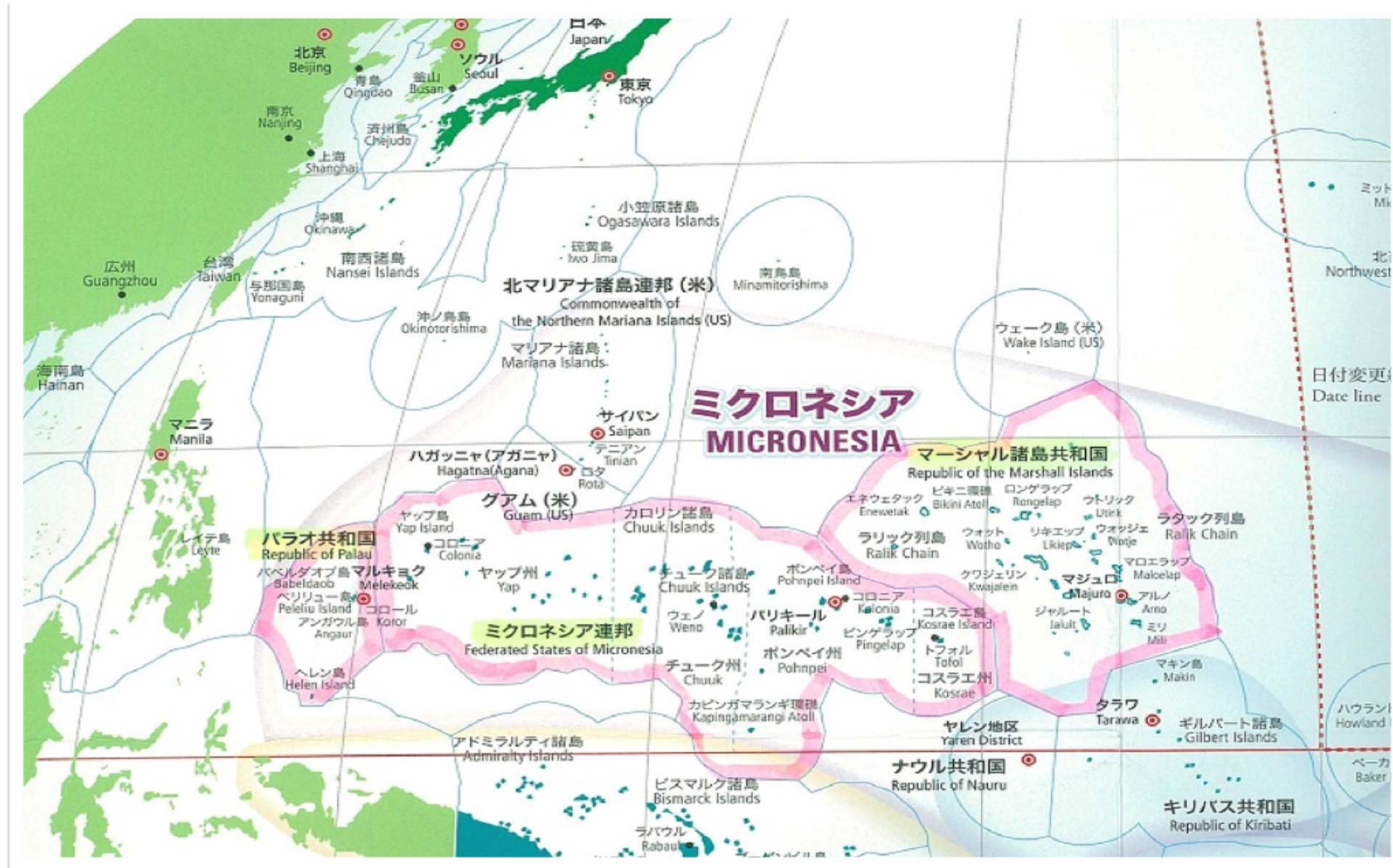


Providing Emergency Power Generator

(Sample)



EEZ of Three Micronesian Nations



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