



ROYAL NEW ZEALAND NAVY SMALL BOATS

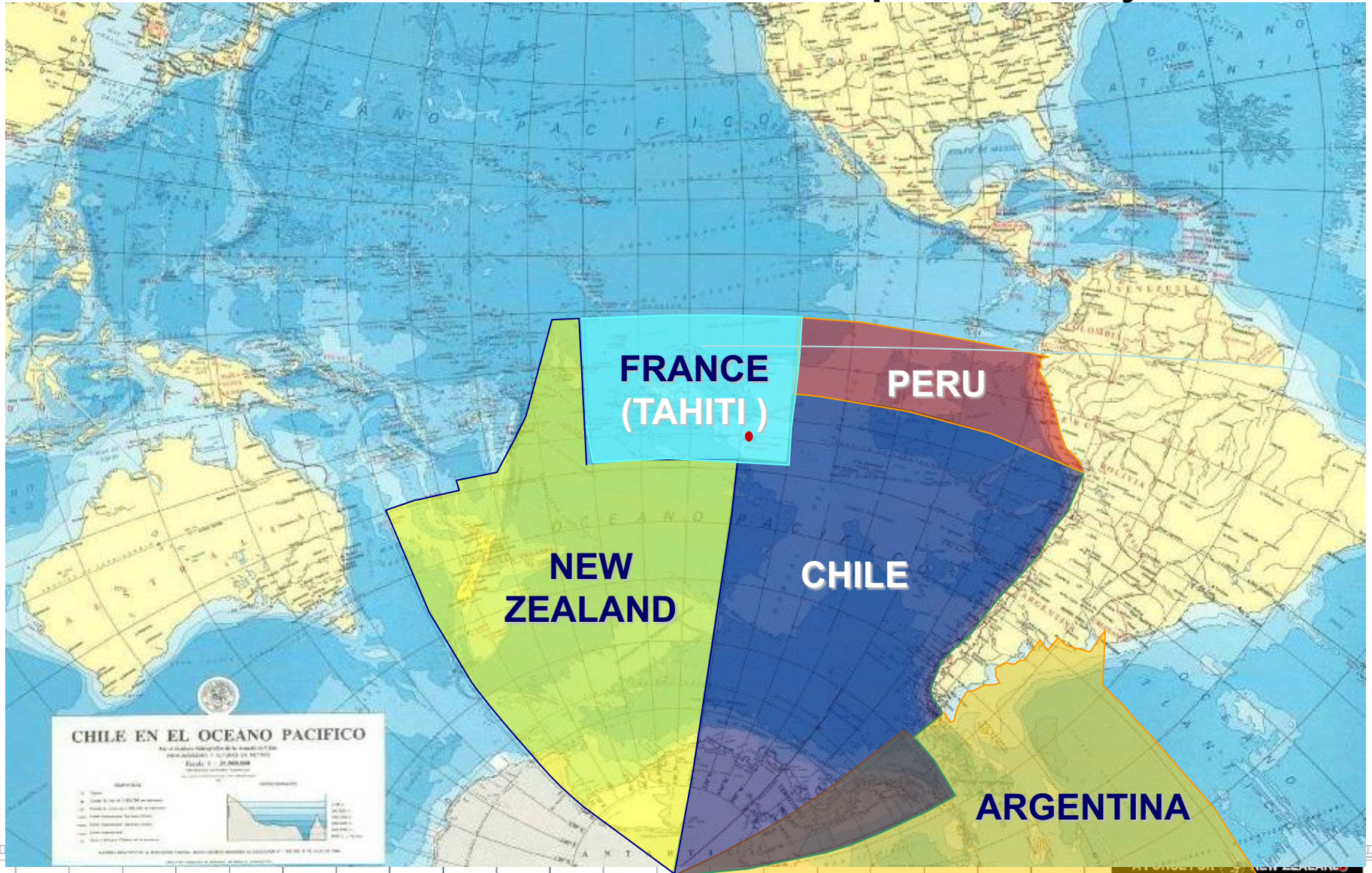
Lieutenant Commander Tony Pearson, RNZN
Principal Systems Engineer

New Zealand

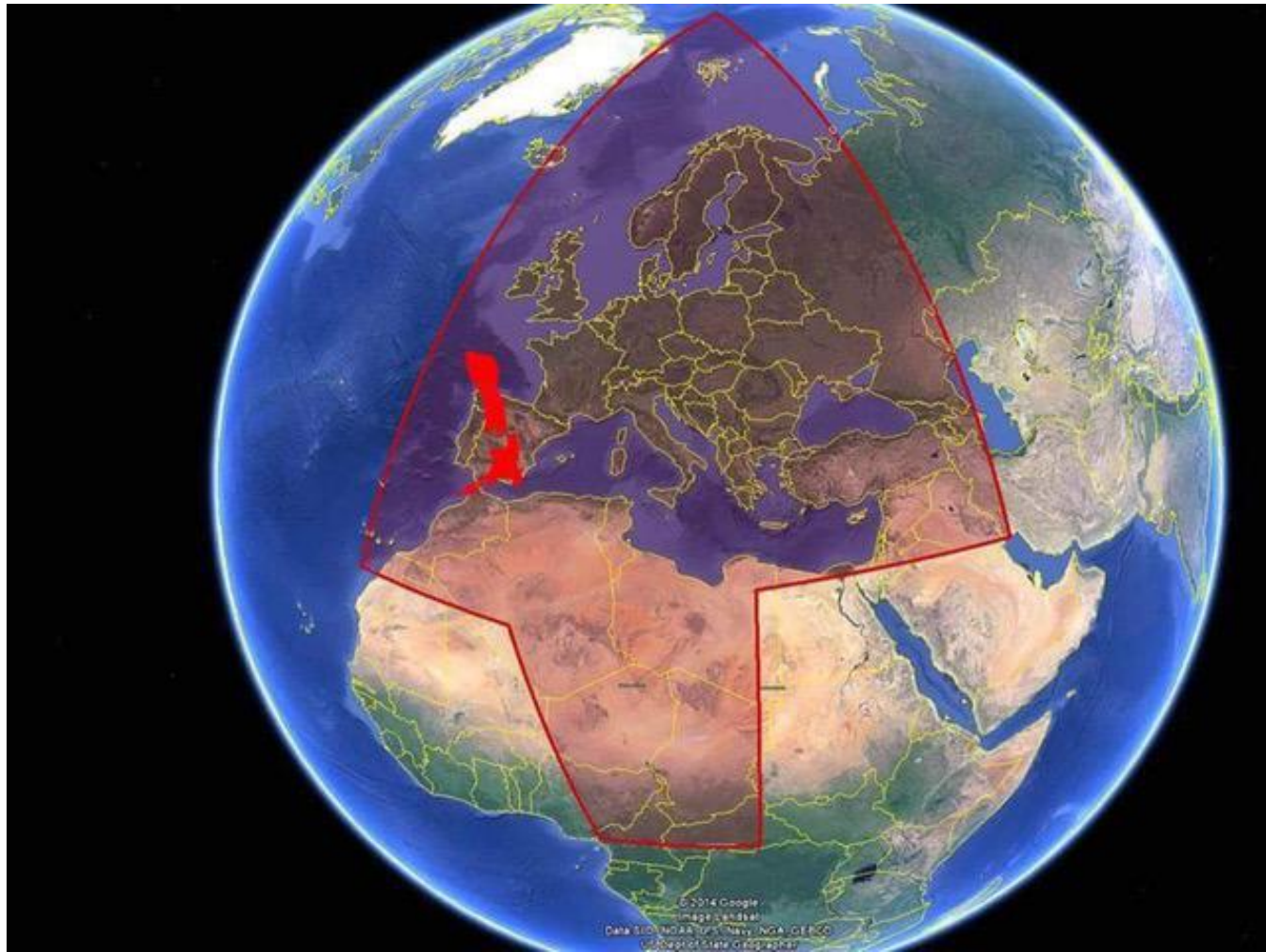


- **4.4 Million**
- **15,000 km coastline**
- **267,000 km² land area**
- **4.4 million km² EEZ (5th largest at 15 x land area)**
- **30 million km² SAR responsibility (3rd largest)**
- **85% of exports by value go by sea**
- **\$4 billion Fisheries Quota Value**

Operating far from safe haven: 30 Million km² SAR responsibility

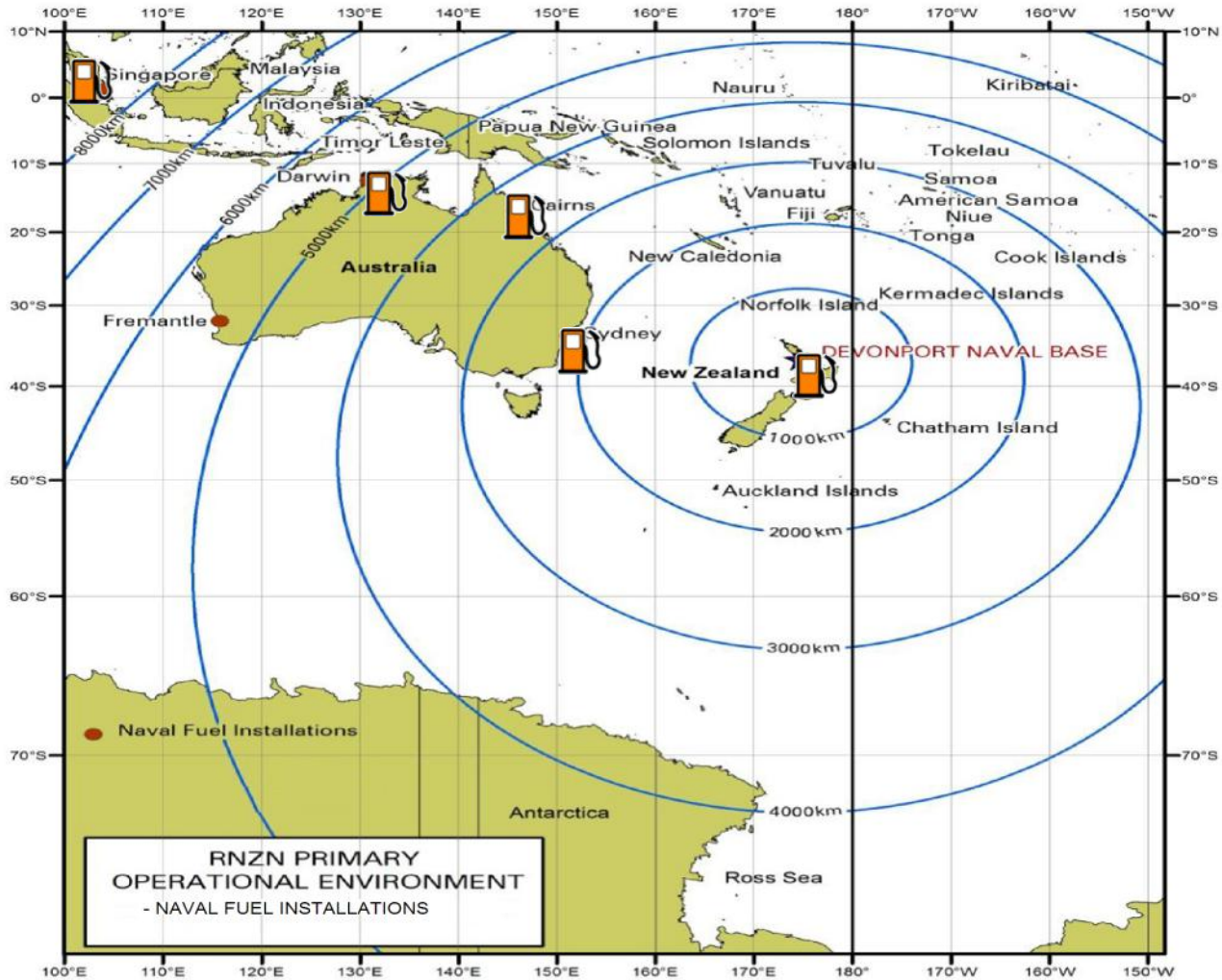


Big distances are a constant



SAR region transposed North

Tyranny of Distance



OF THE SEA

Royal New Zealand Navy



Roles for RNZN RHIBS

- Crash Boat – Helo ops (helo crash bag, stretcher Diver, flotation bags)
- FRC – MOB recovery (seat, stretcher medical equipment)
- Seaboat – Pax delivery Ship to Ship/ Ship to shore (Suitable seating with adequate numbers)
- Seaboat – Stores delivery (seat and storage)
- Seaboat – Resupply – such as Raoul Island etc. (deck space and decent fendering)
- Dive boat
- Boarding boat – Delivering Boarding parties in EEZ / Pacific / MIO Gulf (6 +seats for BP and enough Deck space to move and disembark safely)
- LWSF Support – Operating in a littoral environment Diving / Hydrographic support (carrying harbour entrance sonar for CANT)
- LWSF support – Force protection during Amphibops / littoral ops. (armed crew)
- LWSF support – recovering pax from beaches, jetties as in a NEO type (EX SK etc) – (ability to beach, Seats)
- Coxswain Training – Craft operation / Rule of the road + Navigation training (Radar, GPS, passage planning)

What we Have

- 9 Zodiac Hurricane RHIBS with sternleg now 20 Years old on the frigates
- 27 Zodiac J3 Jet driven RHIBs from 11 years old. On all other vessels
- 4 x 9m Special Ops

- Overall Length 7.3m
- Max speed 40 kn
- Max displacement 3350 kg
- Maximum Load 730 kg
- Volvo Penta – Stern Leg Drive 200Hp Yanmar – Jet Drive 320 HP
- Range 100nm at 12kn fully loaded at top sea state 4
- Maintain 25 kn fully loaded at top sea state 4
- Able to launch and recover at speeds up to 10 kn;



Fishery Protection in Fiji





Fishery Protection Southern Ocean





Before The Quake
14 November 2016



After The Quake

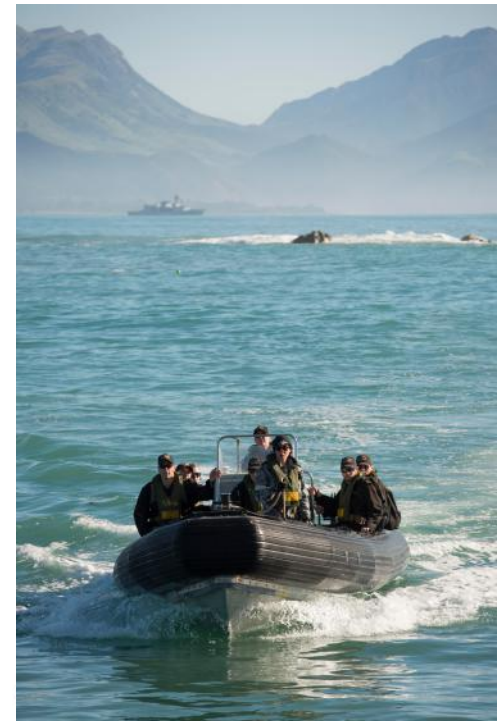


Kaikoura Earthquake





Kaikoura Earthquake Relief





Island Resupply

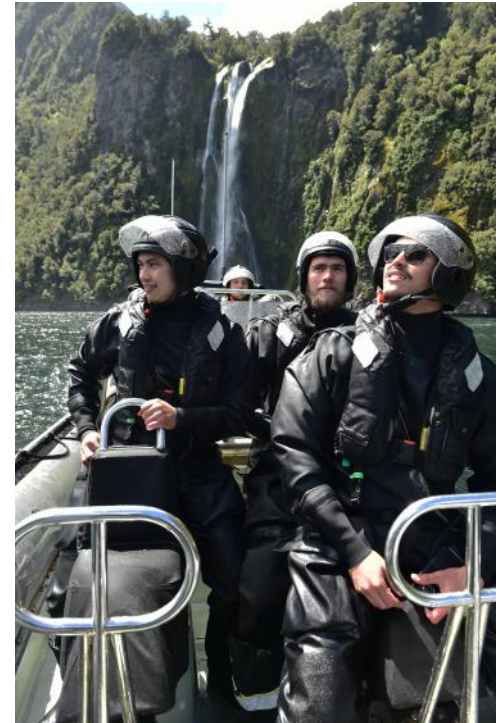




Obstacle
Avoidance
Sonar



Sight
Seeing!





SO 9m Boat

What we want?



Capability Requirement

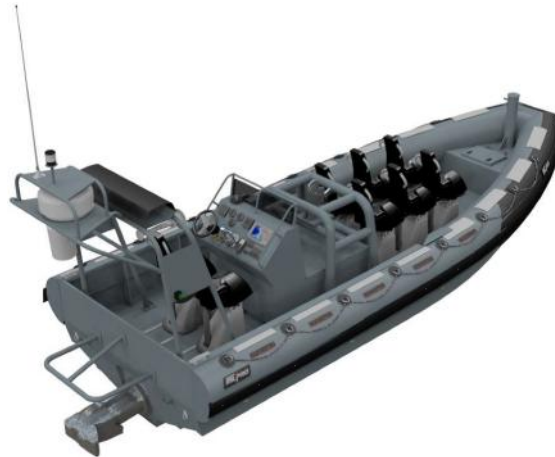
1. Hold a 6 man boarding party plus boat crew about 1000kg
2. 7.3m overall length, 2.74m Beam lifted by Vest davit 4000kg SWL
3. Range: min 100nm
4. Endurance: Fully loaded SS4, 100nm @ 12 Knots? (8 Hrs)
5. Speed: Light 35kn, laden 25kn
6. Ability to undertake tier 4 - Opposed Boardings
7. Fly as air transport in a Hercules C130H

Ultimate requirement

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3. Fly as air transport in a Hercules C130H
4. Ability to undertake tier 4 - Opposed Boardings



Canadian Maritime Tactical Operations Group



German
Zodiac

Questions yet to Answer

- Tier 3 or 4 boardings (Obstructed – Opposed)?
- Console position?
- Hull Material?
- Drive train?
- Size Limitation

Questions

