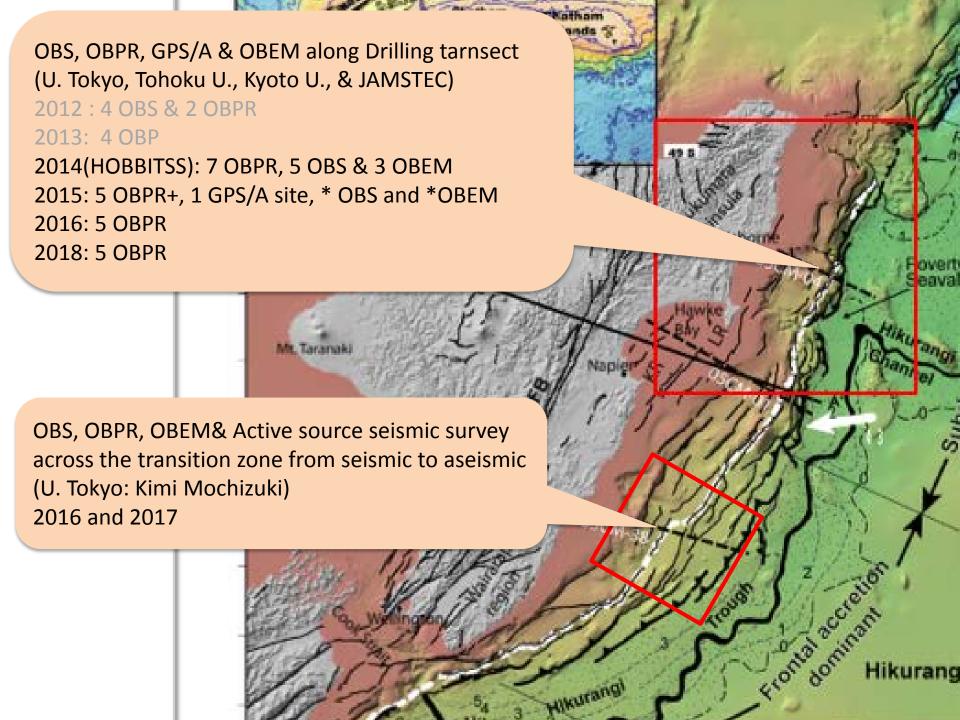
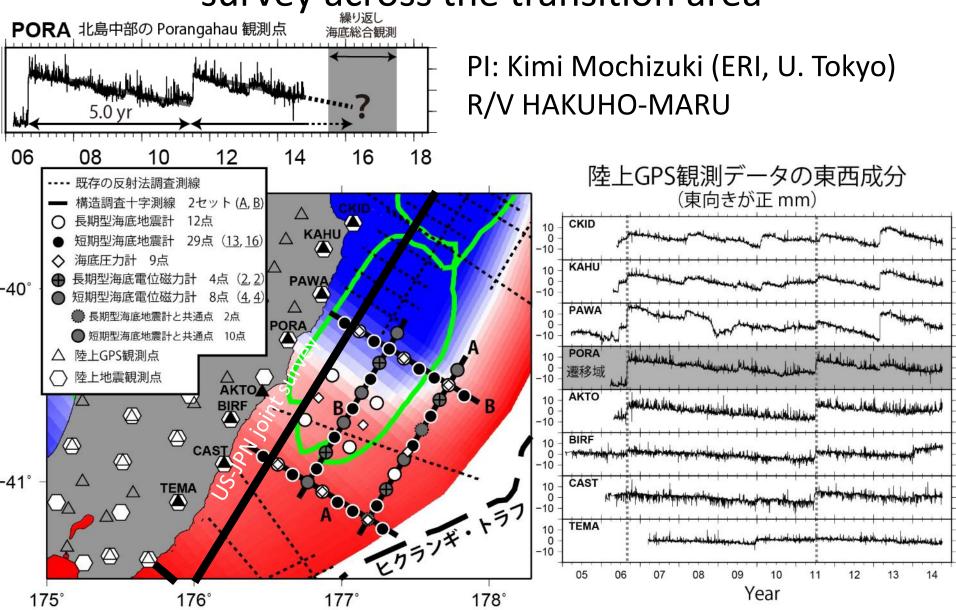
## Japan-led seafloor seismological and geodetic efforts

Yoshihiro Ito, (DPRI, Kyoto U.) Kimi Mochizuki, (ERI, U. Tokyo) Shuichi Kodaira, Hiroshi Ichihara (JAMSTEC) Ryota Hino, Motoyuki Kido (IRIDeS, Tohoku U.)



## Offshore multidisciplinary geophysical observation and active source seismic survey across the transition area



## JAMSTEC Workshop on Large-Scale cruises at YES, JAMSTEC, on Nov. 6-7, 2014

- Purpose: To explore co-funding/international collaboration and investigate synergies in science projects and project locations for the JAMSTEC R/V.
- Many preproposal in south west Pacific were submitted
  - Hikurangi : SSE
  - Northern Lau: Rift and metal
  - Kermadec Genesis of continental crust formation
  - Hikurangi piece of the largest Oceanic Plateau puzzle?
- One fullproposal including other area, such as western Pacific and southern ocean will be submitted to JAMTEC
- If accepted, JAMSTEC R/V KAIREI or KAIKO will voyage after 2017



Pre-proposal was submitted to
JAMSTEC Large-scale cruise Workshop.
Full proposal will be submitted
PI: Laura Wallace
(After 2017)

106.0 m Length 16.0 m Beam Depth 7.3 m Draft 4.7 m Gross tonnage 4,517 tons Cruising speed 16 knots Range 9,600 nautical miles 60 (38 crew, 22 research Accommodation personnel)



Cruise proposal was submitted to AORI, U. Tokyo.

PI: Kimi Mochizuki 2016 and 2017)

Longth	100.0 m
Length	100.0 111
Beam	16.2 m
Depth	8.9 m
Draft	6.3 m
Gross tonnage	3,991 tons
Cruising speed	16 knots
Range	12,000 nautical miles
Accommodation	89 (54 crew, 35 research
	personnel)

## Shall we submit new APL proposal?

- Drilling just after SSE in Hikurangi
- Investigation of SSE zone before and after SSE.
  - Where is the last SSE zone, especially depth and thickness?
  - Frictional property is changed or not, before and after.
  - Heat signal?
  - Micro structure ?
- Side track in a main riser hole by Chikyu?
- New hole near a JR hole near the toe?