



National Facility Operator's Report 2011 Jason Operations



- **7 cruises completed**
*Hawaii, Juan de Fuca,
Santa Barbara Seeps, EPR*
- **56 lowerings**
- **Longest: 139 hr; Avg: 23 hr**
- **1,086 hrs of data**
- **Vessels used:** *Kilo Moana, Atlantis*





National Facility Operator's Report

Jason Highlights



- Developed package deployment methods for observatory efforts
- Developed new techniques for working two bodies in shallow depths (47 m *Jason* ops)
- Designed system for push coring via elevator: hundreds of cores taken during 6-day dive
- Successful recovery of stuck cork instrument



National Facility Operator's Report 2011 Sentry Operations



- **3 cruises completed (plus major upgrade)**
Kermadec Arc seamounts, GoM, Santa Barbara Seeps
- **79 days**
- **42 dives**
- **Longest: 34 hrs; avg: 13 hrs**
- **501 hrs / 1,350 km of survey**
- **848,000 photos taken**
- **Numerous multibeam maps, at least 15 distinct sites**
- **Vessels used:** *Tangaroa, McArthur II, Atlantis*





National Facility Operator's Report **Sentry Highlights**



- New deepest dive: 5,866 m
- First use of the new sidescan system - mapped three volcanoes
- Supported NRDA in the Gulf of Mexico
- Increased buoyancy allows for flotation of multiple sensors simultaneously
- First 3-D photo reconstruction in collaboration with ACFR (Australian Center for Field Robotics)