



Mapping (some of) the Gaps through Philanthropy

...and telling the story

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OF SCIENCE ON FALKOR



Falkor has traveled a distance greater than circling the globe 7.5 times



42 RESEARCH CRUISES



940 SCIENCE



160 INSTITUTIONS FROM **27 COUNTRIES**



565



216 STUDENTS



628 CTD CASTS



38 **AUV DIVES**



580,257 KM²

(an area the size of Kenya)

MAPPED BY FALKOR'S MULTIBEAM AND ECHO SOUNDER SYSTEM



DISCOVERED AND NAMED UNDERWATER FEATURES

2017 OUTREACH



LIVE GOOGLE HANGOUTS ON AIR

had 260,581 views from 174 countries



715 PEOPLE on Falkor tours



3,130 STUDENTS

reached through 44 ship to shore connections



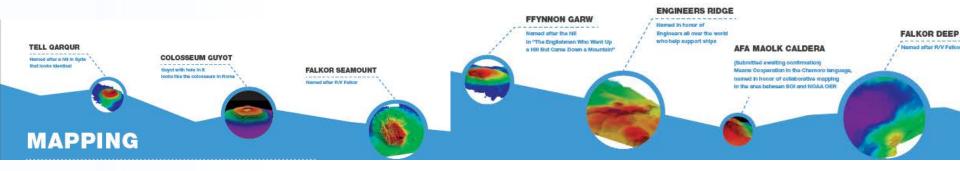
1048 ARTICLES

in the press





14 Discovered & Named Underwater Seamounts







Each Cruise We Collect (example):

FK181005 - EM302

Survey Hours 118.47 hrs

Vessel Speed 9.096 kts

Ping Rate (average) 0.66 h/z

Time Between Pings 1.552 seconds

Distance Travelled Between Pings 7.263 m

Depth (average) 939 m

Swath Width (average) 2,623 m

Resolution (average) 7.263 m (along), 6.07 m (across)

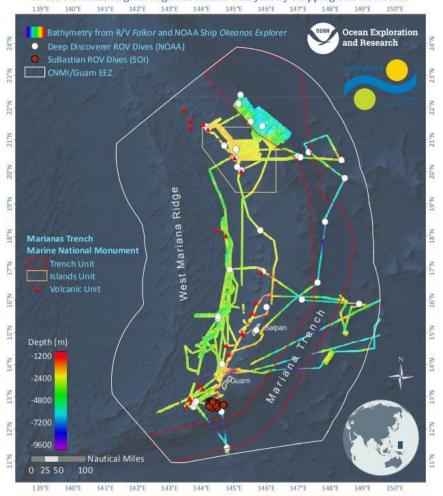
Coverage Area 4,430.8 km2

Distance Travelled Total 1,100,256 nm

Soundings Total 143,737,632







Overview map showing seafloor multibeam bathymetry coverage and remotely operated vehicle (ROV) dive locations completed in the vicinity of the Commonwealth of the Northern Mariana Islands and Marianas Trench Marine National Monument by R/V. Polkor and NOAA Ship Okeanos Explorer, RV Folkor is under dand operated by NOAA.

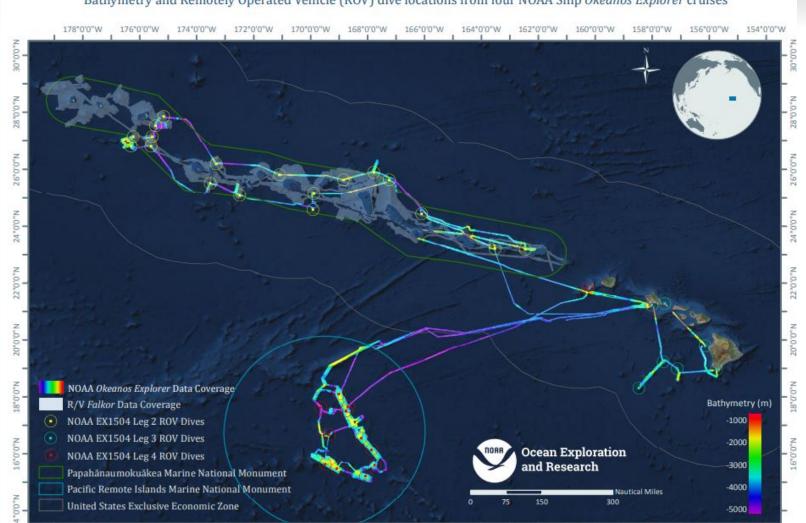
Map created by NOAA-OER, 9/12/16. Service Layer Credits/ Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, ISDA, IGE; swisstopo, and the GIS User Community





CAPSTONE: 2015 Hohonu Moana: Exploring Deep Waters off Hawai'i

Bathymetry and Remotely Operated Vehicle (ROV) dive locations from four NOAA Ship Okeanos Explorer cruises

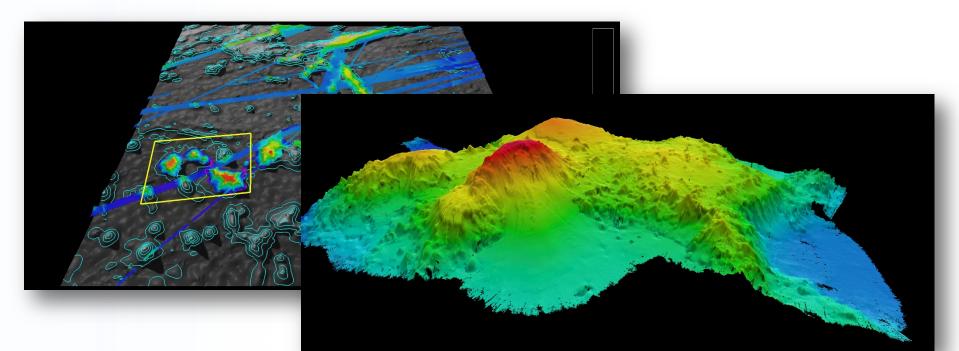






Opportunistic Mapping

- 7,000 km² of Johnston Seamount group in the Pacific Remote Islands Monument
- Maps revealed large seamount dotted with smaller peaks; the geologic implications suggest that four distinct volcanoes, reaching thousands of feet above sea level, merged through eruption and erosion into one large, subsurface mountain.











THE FIVE DEEPS EXPEDITION

ATLANTIC | SOUTHERN | INDIAN | PACIFIC | ARCTIC

OCEAN EXPLORATION TRUST









PAUL ALLEN



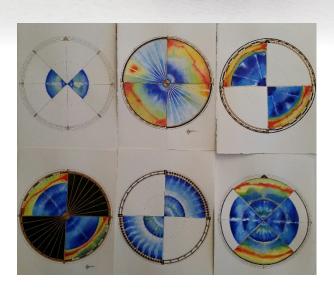












- Inspire a deep passion for ocean sciences
- Recent cruise where students and artists were trained to stand MBES watches and learned how to clean up the data
- Artwork was representative of the data
- Students gain invaluable skills and at sea experience while working with some of the world's most advanced oceanographic technologies





Artists and Mapping







Storytelling

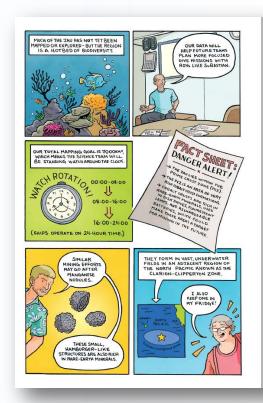






Storytelling - Mapping Comic

Graphic Artist *Lucy Bellwood* - educational comic on multibeam mapping; over 5,000 copies distributed to classrooms in the Pacific Islands.









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