



# Schmidt Ocean Institute 2018 Report for UNOLS RVOOC Annual Meeting

*Schmidt Ocean Institute is a U.S. 501(c)(3) non-profit operating foundation fully funded by the philanthropic resources of Eric & Wendy Schmidt*

Operate the R/V Falkor (2012) and ROV SuBastian (2016)

Sponsor the National Forum for Ocean Exploration  
and a financial supporter of the Rolling Deck to Repository (R2R)



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# FK180310 End-of-Cruise Wrap Up Video

*(an example of the science we continue to support)*





# 2017 - 2019 Operational Years for R/V Falkor & ROV SuBastian



- 2017
- 126** days at sea for **science** (scientists aboard)
  - 27** days at sea for **transruises** (repositioning transit with piggyback science)
  - 12 days at sea for **repositioning transits** (no dedicated science mission, no scientists aboard)
  - 151 days **shipyard**
  - 71 days at sea with ROV 8-man team aboard during 4 cruises
  - 61** days with **ROV in the water**
  - 1 cancelled cruise with funding for science party provided by NOAA OE - rescheduled for 2019
- 2018
- 227** days at sea for **science** (scientists aboard)
  - 14** days at sea for **transruises** (repositioning transit with piggyback science)
  - 8 days at sea for **repositioning transits** (no dedicated science mission, no scientists aboard)
  - 133 days at sea with ROV 8-man team aboard during 7 cruises
  - 79** days with **ROV in the water**
- 2019
- 183** days at sea for **science** (scientists aboard)
  - 46** days at sea for **transruises** (repositioning transit with piggyback science)
  - 6 days at sea for **repositioning transits** (no dedicated science mission, no scientists aboard)
  - 62 days **shipyard**
  - 133 days at sea with ROV 8-man team aboard during 6 cruises
  - 90** days with **ROV in the water**
  - 46 days reserved for engineering robotics during two 23-day cruises





2017 - 2019

**Chief Scientists** who have sailed aboard  
R/V Falkor are from the following institutions:

University of Hawai'i - 5      Temple University - 2      The University of Georgia

University of Sydney (*Australia*)      Columbia University

French Institute for Research and Exploitation of the Sea IFREMER

Massachusetts Institute of Technology      University of Southampton (*UK*)

Woods Hole Oceanographic Institute - 2      Monterey Bay Aquarium Research Institute

NASA      U.S. Geological Service

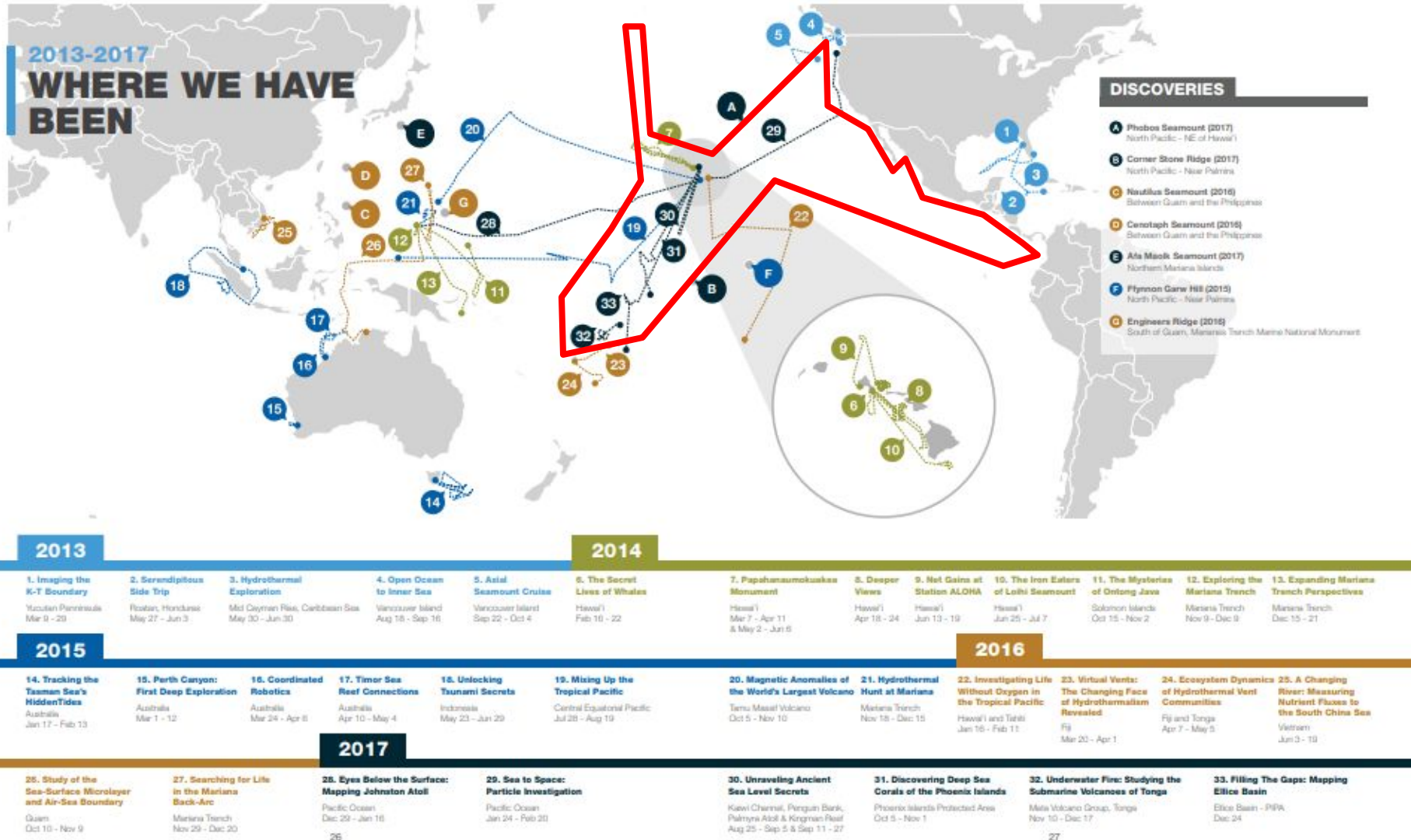
Stanford University - 2      University of Porto (*Portugal*)

Harvard University



**Approximately 75 Expressions of Interest** submitted per year for collaborative  
research with SOI aboard R/V Falkor with ROV SuBastian.      **\*\*\* 792 reviewers \*\*\***

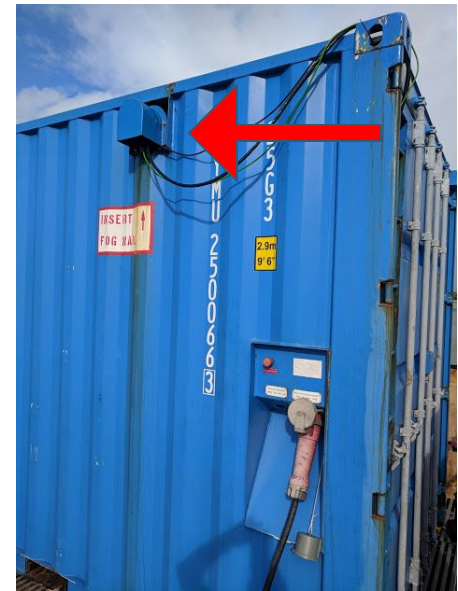
2013 - 2017 where we've been  
**2018 - 2019 where we're going**  
 Ops Areas



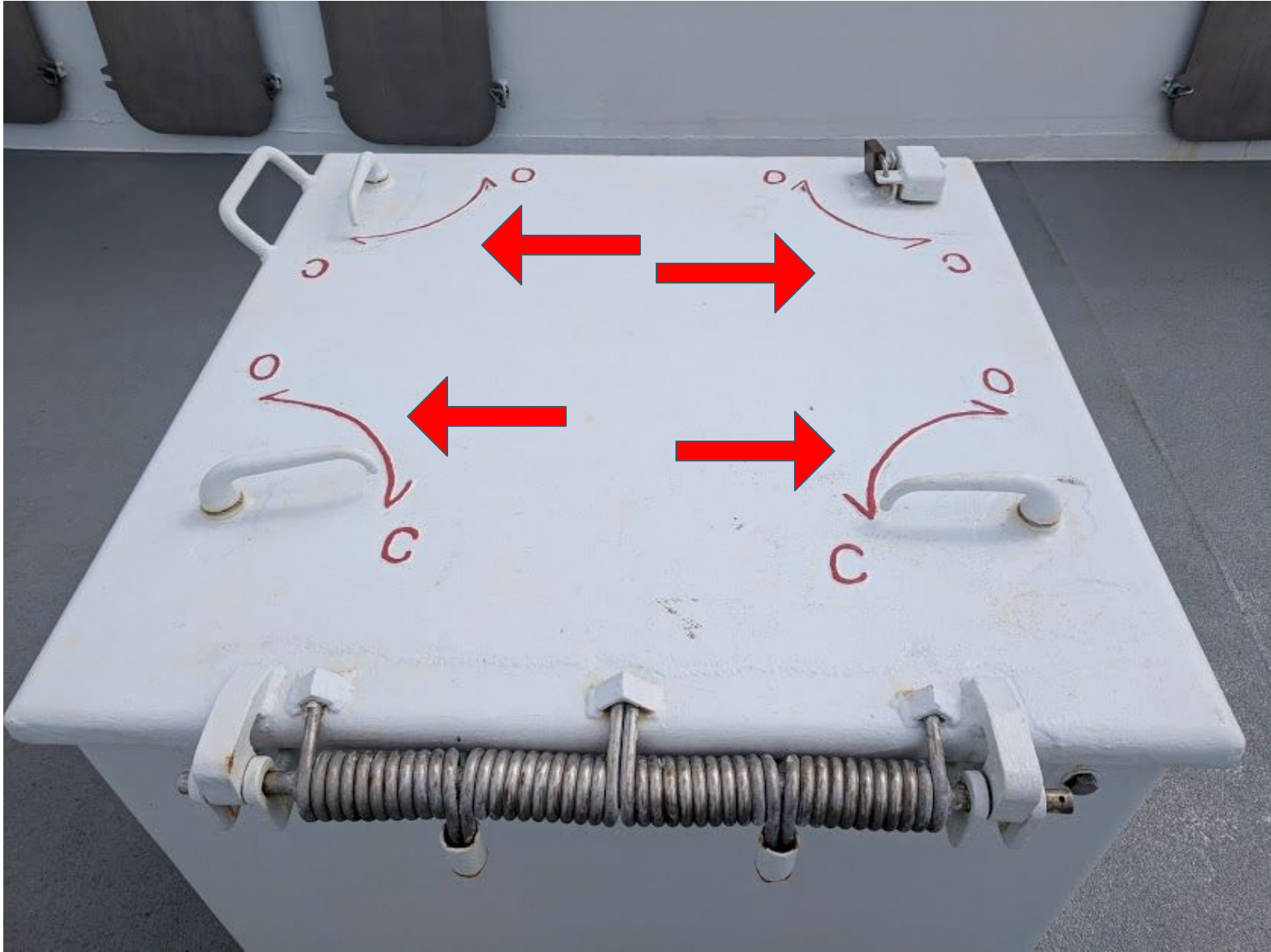
# R/V Falkor

## A Few Safety Best Practices (crew inspired)

### Portable Water Mist Fire Suppression System



# R/V Falkor Safety Best Practices Dog Open / Close Indicators



# R/V Falkor Safety Best Practices

## Convex Passage Intersection Mirrors





# R/V Falkor Data Upgrades

2015 - High Performance Computer



2016 - 64 x 64 Digital Matrix Switcher



2017 - 150 TB Storage Array



2018 - Google Cloud Transfer Appliance 100 TB





## R/V Falkor Branding

