Cabled Observatory Vent Imaging Sonar (COVIS): Operations Summer 2018

Project Title: Collaborative research: Heat flow mapping and quantification at ASHES hydrothermal vent field using an observatory imaging sonar (NSF OCE 1736702, 1736393, 1726920, 1736621)

Cruises		56.03'
Leg "2"	Leg "4"	
July 1 – July 12	July 20 – Aug 3	
1 science day funded	2 science days funded	
ROV JASON: 2+ dives	ROV JASON: 2 dives	56.02' ·
Dive 1065 (parts): flow measurements at Diva and Tiny Towers	Dive 1095: installed COVIS, flow and temperature measurements at Inferno and Mushroom	45°N
Dive 1069 aborted due to power failure; Dive 1070 (~12 hours): near-bottom thermal survey, flow measurements at Inferno	Dive 1096: installed 1-m arrays (temperature variance), surveyed positions, spot flow and temperature measurements, visual survey of Mushroom (back side from CamHD)	56.00' -
Most objectives completed (except intended higher (10m) level thermal survey)	Objectives met. Navigation accuracy inadequate but compensated by sonar surveying of sensor locations.	

COVIS activities at ASHES in 2018 (10 cm contour interval)



COVIS TEAM		
Science	Engineering (@UW)	
@RU: Karen Bemis; @Clemson: Leonid Germanovich	Tim McGinnis, Aaron Marburg	
@UW: Darrell Jackson, Anatoliy Ivakin, Guangyu Xu	Mike Kenney, Nick Michel-Hart, Ben Brand	
Peter Rona (deceased)	Russ Light (deceased), Vern Miller (retired)	

Cabled Observatory Vent Imaging Sonar (COVIS): Science



Come see our poster on Thursday Dec 13 – V43G-0206. I'll be there 4-6 pm.