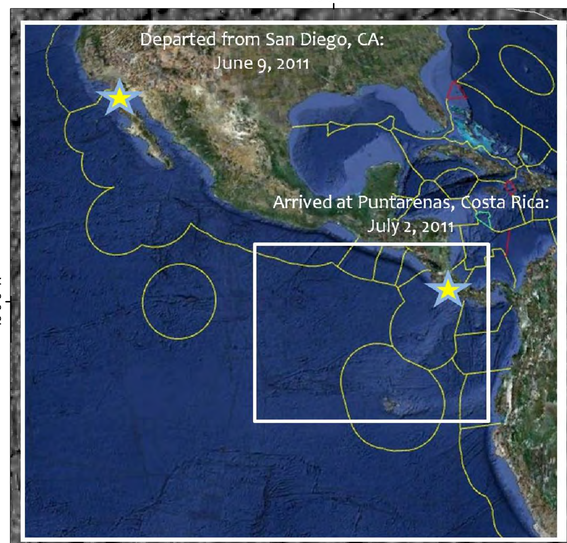
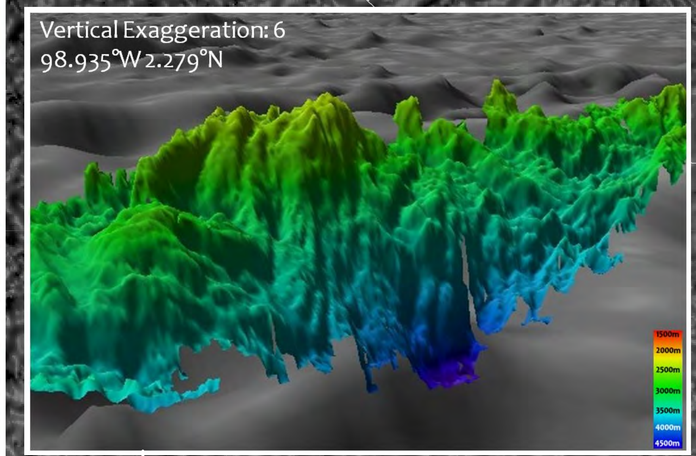
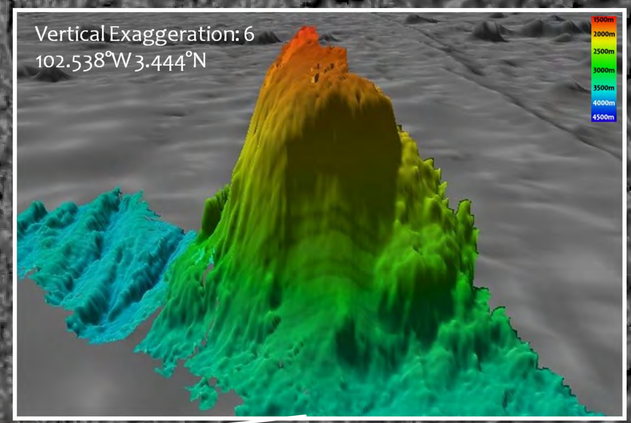
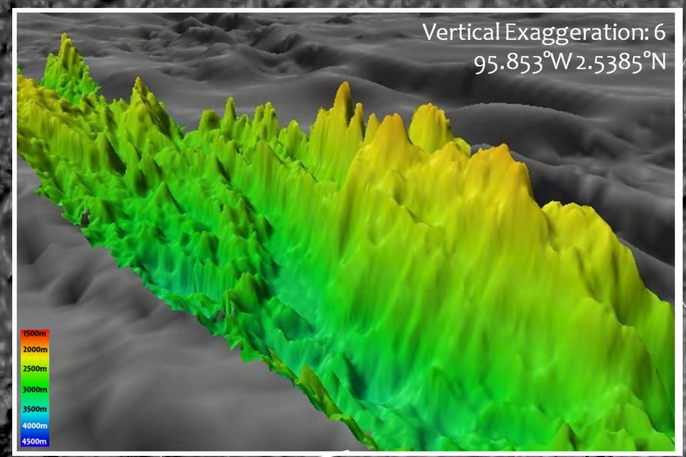
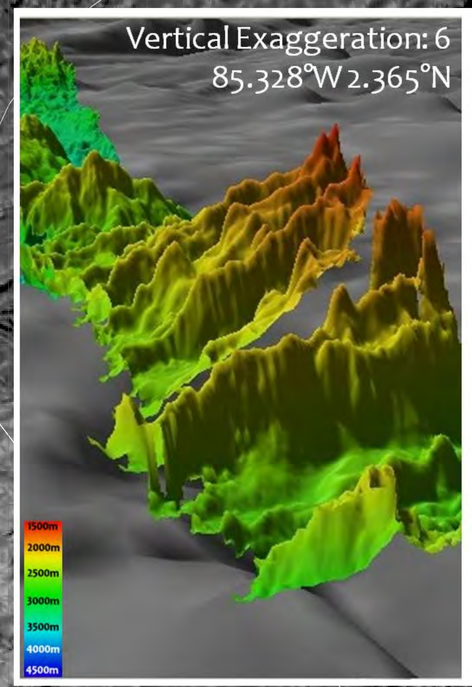
NOAA Ship Okeanos Explorer EX1103 Leg 1: Exploration Mapping Galapagos Spreading Center

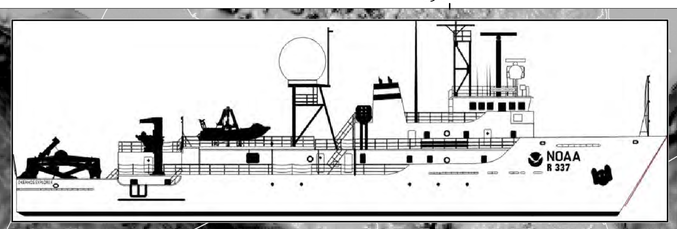












Map designed by Libby Chase
2010 NOAA Hollings Scholarship Intern
All data collected onboard NOAA Ship Okeanos Explorer
Multibeam data processed through Caris V6.1
Feature pictures taken as screen-grabs from Fledermaus V7
Overview Map taken and modified from Google Earth

International Waters: Multibeam mapping operations were conducted in all available international waters.

Costa Rica Exclusive Economic Zone (EEZ): Multibeam mapping operations were conducted within this area.

Map Statistics

Distance Mapped - 3,636 km
Number of XBT Casts - 44
Number of Vertical CTD Casts - 1

Legend

Multibeam Mapping Data Color Scale: 100m, 1000m, 1500m, 2000m, 2500m, 3000m, 3500m, 4000m, 4600m

Plume Activity

XBT Casts

Vertical CTD Casts

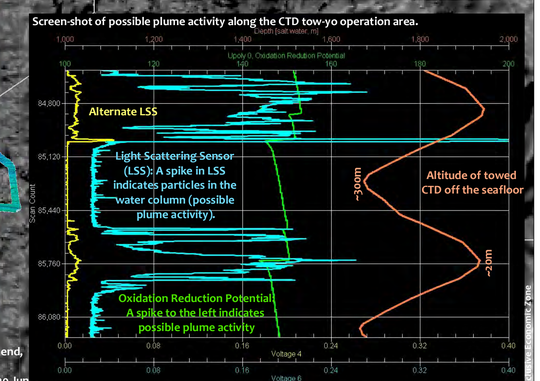
Precise multibeam mapping operations were conducted in the area to the west of the Ecuador EEZ surrounding the Galapagos Islands as well as within the Ecuador EEZ. Precise mapping was conducted at an average speed of 8.5 knots from 20-22 June.

Galapagos Marine Reserve: No multibeam mapping operations or CTD tow-yo operations were conducted within this area.

Ecuador Exclusive Economic Zone (EEZ): Multibeam mapping operations and CTD tow-yo operations were both conducted within this area.

CTD Tow-yo Operations were conducted in this area, beginning at the far western end, east of the Galapagos Marine Reserve, to the far eastern end outside of the Ecuadorian EEZ. Tow-yo operations were conducted at a speed of 1.7 knots, from 23-29 Jun...

Screen-shot of possible plume activity along the CTD tow-yo operation area.



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