

Figure Left: Unprocessed, real-time EM302 image from shipboard read-out during 2010 test cruise on THOMPSON on the Washington margin, showing methane gas plumes, zooplankton scattering layer and hard acoustic returns from pockmark carbonate plates on seafloor.

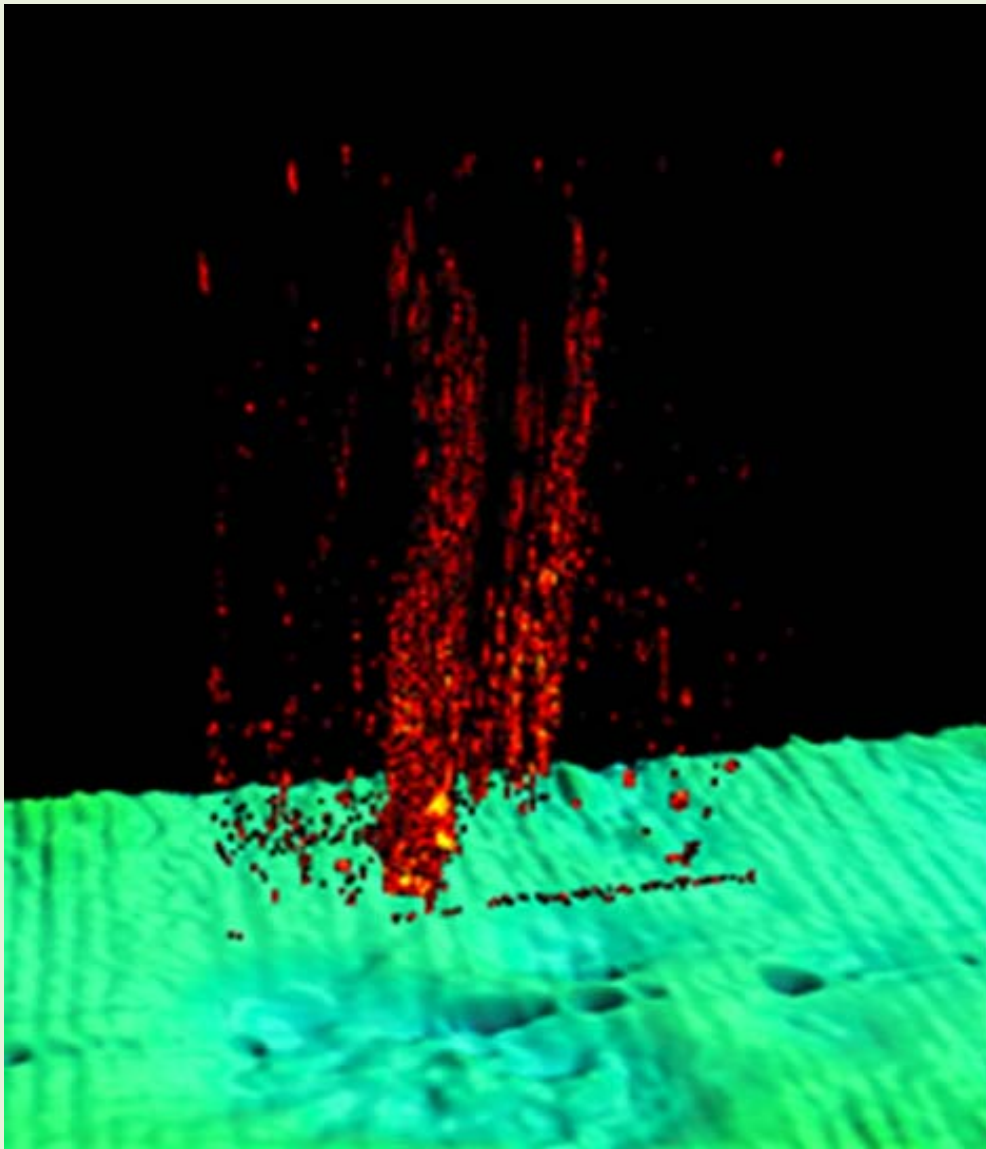
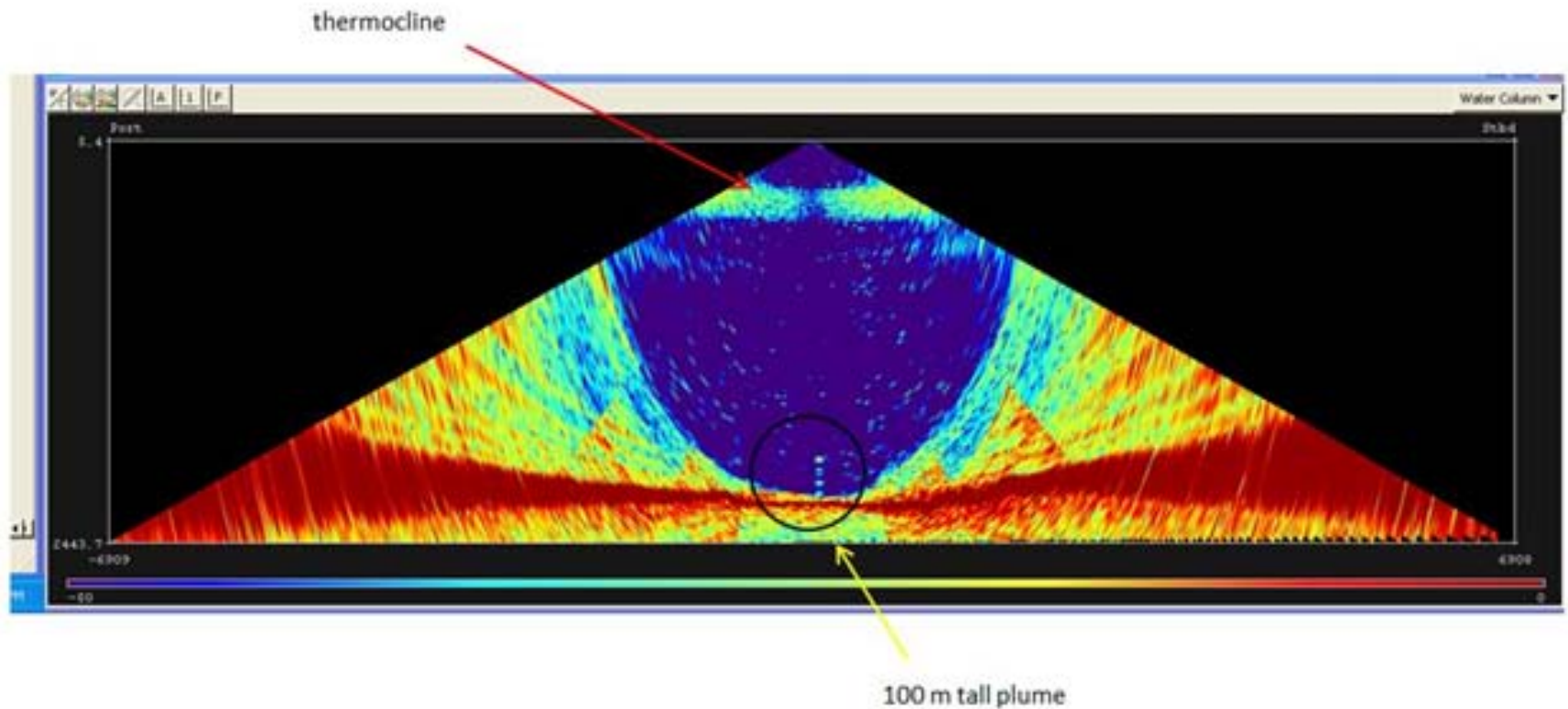


Figure Left: Shipboard processed EM302 image of bubble plumes in WA margin survey area. Red are methane bubbles, green is seafloor.

Shades of green beneath bubbles are due to hard carbonate returns, where the high acoustic intensity 'blanks' the lower portion of the bubble streams.



EM122 image of the high temperature plume from High Rise vent field in the Endeavour Valley of the Juan de Fuca Ridge, August, 2011.

The ATLANTIS EM122 survey successfully imaged all 4 of the high temperature vent fields from the Endeavour axial valley during this cruise.