



## **The ESASSI-08 cruise in the South Scotia Ridge region: preliminary analysis of hydrodynamic and biogeochemical data.**

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The ESASSI-08 oceanographic cruise to be carried out in January 2008 is a major milestone of ESASSI, a 3-year project funded by the Spanish Polar Program. ESASSI is the Spanish component of SASSI, a core project of the International Polar Year devoted to study the water and heat shelf-slope exchanges in different locations of Antarctica. SASSI has been promoted by IAnZone (a consortium of physical oceanography groups working in Antarctica) and involves up to 13 countries. The objectives of the ESASSI project are: i) to determine the path of the Antarctic Slope Front (ASF) in the South Scotia Ridge region, and ii) to study the outflow of dense, ventilated water from the Weddell Sea into the South Scotia Sea. Both issues remain unclear due to the complex bathymetry in between the South Shetland Is. and the South Orkney Is. The ESASSI-08 cruise has been planned in the form of different sections across the shelf covering different key locations of the study region. Each of these sections covers from shelf waters (200 m) to open sea (3000 m). In this presentation we intend to show a preliminary analysis of the major hydrodynamic variables (T, S, velocity) and biogeochemical parameters (including CFCs and oxygen isotopes).