

GEOPHYSICAL, GEOLOGICAL AND OCEANOGRAPHIC PARAMETERS USED IN THE SELECTION OF A MARINE AREA IN BRAZIL TO LOCATE LOW RADIOACTIVE WASTE.

Alves, E.C., Baptista Neto, J. A., Sichel, S. E. and Costa, M. P. A. LAGEMAR/UFF, Brasil

Based on geophysical, geological and oceanographic data one area was investigated in the Brazilian Oceanic Basin to receive low radioactivity nuclear waste (half-life 20 years) package in a container. Seismic reflection profiles and 3.5 and 12 kHz echograms data were analysed together with DSDP holes and oceanographic data. The preliminary selected area is located at the base of central segment of the Rio Grande Rise. Results indicate that the area is not affected by the chemical and erosional/depositional effects of the Antarctic Bottom Water Current (AABW). The sedimentation in this region is mainly pelagic and its deposition rate is low. The area is free of seismicity and volcanism, at least in the last 50 million years. There is no submarine cables crossing the region.