

The **Institute of Environmental Physics (IUP)** of the University of Bremen, department of Earth Remote Sensing, is searching for an enthusiastic and dynamic young researcher for a **PhD** position (TVL 13, 66%) in the field of

Analysis of SAR (Synthetic Aperture Radar) ocean images.

The project will be performed in cooperation with the Center for Marine Environmental Sciences (MARUM) of the University of Bremen and the Florida State University. The task is an analysis of natural hydrocarbon seepage formations on the sea-floor, based on satellite SAR images. Seepages of natural methane and oil are observed in many oceans, here the focus is on the Black Sea. The oil spills are visible at the sea surface and can be detected and described using regularly taken SAR images.

Requirements for the position are a Master or Diploma in physics or a related discipline and experience in one or better more of the following fields: Geophysics, remote sensing with satellites, especially of the ocean, analysis of SAR images, digital image processing, statistical data analysis, Unix or Linux, programming languages Python, Fortran and IDL. Because of the international character of the project as well a good knowledge in written and spoken English is required as the capability to work independently and and focused in a team. The position is initially limited to one year, an extension to 3 years is planned. The group offers a cooperative work atmosphere and an attractive equipment. The IUP has many relations to leading centers of remote sensing of the Earth surface and atmosphere. For more information on the institute see <http://www.iup.physik.uni-bremen.de>,

As the University of Bremen intends to increase the proportion of female employees in science, women are particularly encouraged to apply. In case of equal personal aptitudes and qualification priority will be given to disabled persons.

Please direct applications and questions to
Dr. Georg Heygster,

Institut für Umweltphysik / FB1, Universität Bremen, Postfach 330440, D-28334 Bremen,
Tel.+49 421 218-3910, Fax -4555, e-mail heygster@uni-bremen.de.

Screening of the applications will start on Oct, 1 and further applications will be considered until the position is filled.

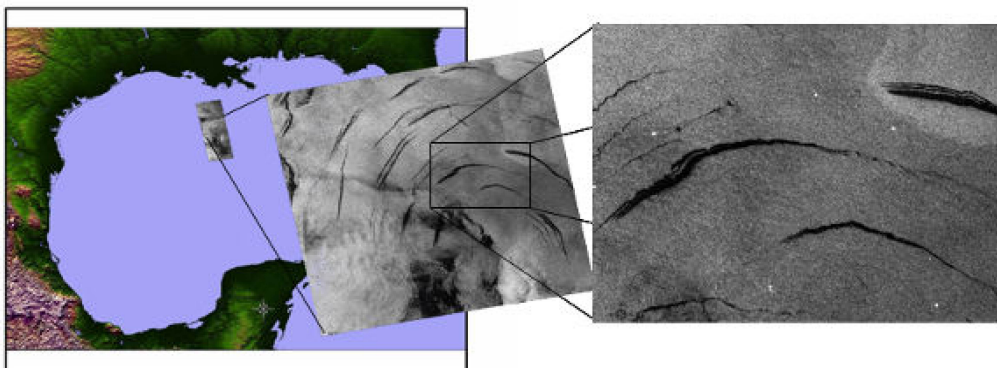


Figure: RADASAT SAR image of 23 May 2006 showing multiple oil-slicks, tracing the surface circulation of an eddy in the Gulf of Mexico (Garcia-Pineda, 2009).