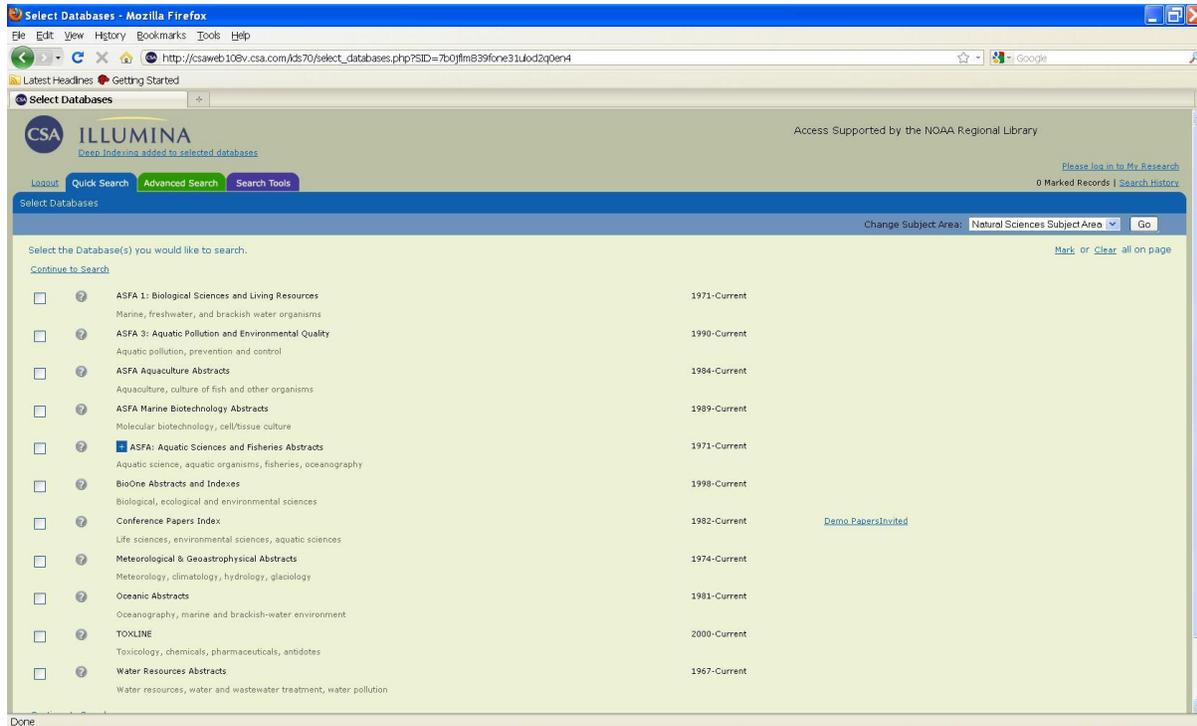


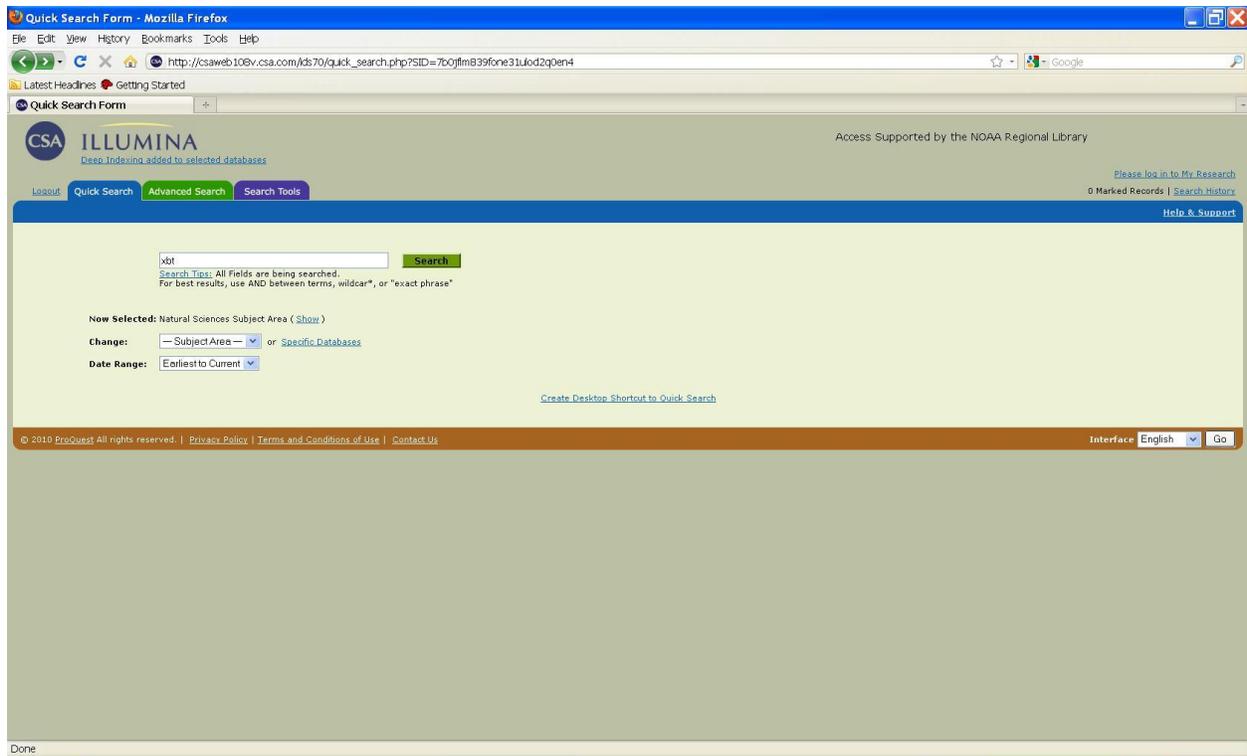
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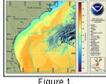
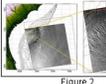
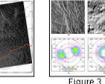
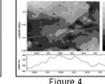
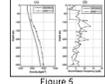
Title [Deep-water bathymetric features imaged by spaceborne SAR in the Gulf Stream region](#)

Author [Li Xiaofeng](#), [Yano Xiaofeng](#), [Zhena Quanan](#), [Pietrafesa Leonard J](#), [Pichel William G](#), [Li Zhenk](#), [Li Xiaoming](#)

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Source Geophysical Research Letters [Geophys. Res. Lett.] Vol. 37, no. 19, [np] 2 Oct 2010.

Objects

Abstract Deep-water (>500 m) oceanic bathymetric features are frequently observed in RADARSAT-1 SAR images in the Gulf Stream (GS) region. They are imaged apparently because of the unique environmental conditions in the region, oceanographically characterized by a strong OS current (2 ms⁻¹) and favorable ocean stratification. SAR image analysis shows the basic characteristics of these bathymetric features. A coincident sea surface temperature image shows that the bathymetric feature is only "visible" by SAR within the OS pathway. The dominant wavelength of the wave-like feature is about 2.3 km and their crests are perpendicular to the OS axis. Shipboard sounding measurements confirm the SAR observation. A theoretical consideration of the ocean current and corrugated bathymetry interaction in a 3-layer ocean is presented. Using representative ocean density profile data and the OS current data, we analyze the requirements for the generation and upward propagation of the disturbance induced by the current-bathymetry interaction.

Descriptors **Article Subject Terms** Indexing in process

Object Subject Terms [Bathymetry](#); [Boundaries](#); [Depth Measurement](#); [Direction](#); [Imaging](#); [In situ](#); [Linear](#); [Location](#); [Regions](#); [Resolution](#); [Spectra](#); [Surfaces](#); [Water Depth](#).

Object Geographic Terms [Atlantic Ocean](#); [Gulf Stream](#)

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