

Caspian Sea Oceanographic Program for Total E & P

Project Characteristics:

- *Shallow and Deep water Mooring Design*
- *Oceanographic Consulting Services*
- *Data Analysis*

Woods Hole Group provided technical mooring design, equipment, and oceanographic consulting services to Total Exploration and Production - Azerbaijan over a 200 day period. The purpose of the contract was to provide an overall metocean study south of the Absheron Peninsula in the Caspian Sea off Azerbaijan. During the campaign the following parameters were recorded:

- Directional currents throughout the water depth at five locations
- Directional waves at three locations
- Sea temperatures at each instrument location and through a part profile at one location
- Salinity profile at one location
- Meteorological information at an onshore location (wind speed and direction, air temperature, relative humidity, atmospheric pressure and rainfall).

Six moorings were deployed over the period of 2013-2014, which were periodically serviced by Woods Hole Group. Woods Hole Group provided local logistics support, all equipment, and personnel for the mooring recovery and redeployment services onboard the client-provided vessel.

Woods Hole Group personnel reviewed all data files in the field on recovery and provided detailed data analysis reports after each recovery cruise. These reports included statistical analysis for all major oceanographic parameters measured.

The moorings are deployed in Southern Caspian Basin and water depths ranged from 15 m to 700 m. Instruments include TRDI 75kHz Long Ranger ADCPs, Nortek Aquadopp AWAC current meters, and Sea-Bird SBE-37 CTDs, and an Axys Directional Wave Buoy.

