NASA SBIR 2006 Phase I Solicitation

S6.03  Earth In Situ Sensors

Lead Center: GSFC

Proposals are sought for the development of in situ measurement systems. These systems are sought for use on radiosondes, dropsondes, tethered balloons, kites, mini-Unmanned Airborne Vehicles (UAVs), Unmanned Undersea Vehicles (UUVs), or Unmanned Surface Vehicles (USVs). Data acquisition methods should be included. Technology innovation areas of interest include:

- Measurements of atmospheric properties including temperature, humidity, solar radiation, clouds, liquid water, ice, precipitation, carbon dioxide, methane, and sulfur dioxide;

- Measurements of three-dimensional atmospheric winds near the Earth's surface, and within the troposphere and lower stratosphere, with high spatial resolution and accuracy. Of particular interest are systems intended for measurements of atmospheric fluxes as well as those for convection;

- Measurements of oceanic properties including inherent and apparent optical properties, ocean temperature and salinity, and sea surface height.