From Ocean Mapping to Groundwater Discharge

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Working with the National Oceanic and Atmospheric Administration Commissioned Corps, better known as the NOAA Corps, has led me to different approaches on my personal interest in remote sensing like the understanding and use of multi-beam bathymetric sensors and current profilers to the interest of using thermal imagery sensors to study groundwater discharges to the Biscayne Bay. The NOAA Corps is a direct descendent from the U. S. Coast and Geodetic Survey (USC&GS), the oldest scientific agency in the U.S. Federal Government created by the President Thomas Jefferson when he signed a bill for the "Survey of the Coast". Officers operate ships, fly aircraft, manage research projects, conduct diving operations, and assumes positions of leadership and command with in the Administration, the Department of Commerce (DOC) programs and in the Armed Forces during times of war or national emergency.

Using the latest technology on remote sensing data acquisition equipment for bottom imagery, bathymetric information, and sub-bottom profiling, I worked as a NOAA hydrographer/surveyor with in the eastern part of the US, including the Gulf of Mexico, Mexico and the Caribbean to later jump back on the groundwater studies field, across the eastern part of Florida, especially on the Biscayne Bay.