

**PROJECT REFERENCE NUMBER: IES-2011-24004-1****Type of traineeship 1, 2, 3**

<b>Project Title</b>	<b>Development of prototype indicators for holistic land-ocean biosphere assessment</b>
<b>Project Description</b>	<p>In the framework of the action n. 24004 of the Unit H03, Global Environment Monitoring Unit, there are substantial datasets of land and ocean biosphere products derived from satellite observations; these are the so called Essential Climate Variables. We look for candidates interested in making use of these datasets in the development of prototype indicators that should cover both land and ocean domains for use in studies of climate variability and change. These indicators may address issues such as growing season dynamics, net primary production and the identification of biomes/ecosystem types. Many of the available products, which will be used as the basis in developing these indicators, come from state of the art algorithms developed at the JRC.</p>
<b>Qualifications/Expertise needed</b>	<p>The candidate should have a background in a geophysical or earth science with some experience in working with large scientific datasets (such as those from earth observation satellites). This should include knowledge of scientific data formats such as HDF4 and netCDF. Furthermore the candidate should have strong quantitative background and demonstrated capabilities in programming using higher level computer languages e.g. IDL, Matlab, Python etc is a requirement.</p> <p>Working knowledge of English and/or French is required.</p>
<b>Duration</b> (3 - 12 months)	12 months
<b>Provisional starting date</b>	2 <sup>nd</sup> Semester 2011
<b>Scientific Responsible</b>	Mark DOWELL

Further information can be found at:  
<http://ies.jrc.ec.europa.eu/index.php?page=68>

*Institute for Environment and Sustainability  
 Action: Systematic Observations of Land and Ocean – Unit H03*