

Future Earth: The Geodetic and Geophysical Perspective

Future Earth is the major new initiative of ICSU that brings together IGBP, IHDP, Diversitas and WCRP. It seeks to examine the effects of global change on all aspects of the biosphere and anthroposphere. This proposal brings together IAMAS, IAHS and CCEC to provide the specialized geophysical input that Future Earth requires, and seeks to forge links with other ICSU Unions to provide geosciences knowledge for sustainable development.

The overall objective of the project Future Earth: The Geodetic and Geophysical Perspective is to provide the scientific underpinning for the IUGG contributions to the ICSU Program Future Earth as specified in the IUGG communication on Future Earth transmitted to ICSU.

The subsidiary objectives of the proposed project are:

- To improve understanding of the linkages between (i) geophysical phenomena such as weather, climate, and water, (ii) energy and (iii) food, especially food security concentrating particularly on the situation when the geophysical phenomena induce a disastrous situation;
- To establish links and networks with the international organizations involved in research on energy, food, disaster research and their socio-economic interactions;
- To strengthen existing programs and consortia such as the IAHS led program Panta Rhei and the CCEC led consortium on Weather, Climate and Food Security (WeatCliFS).

The objectives will be achieved via symposia, workshops and open fora culminating in a final publication to be offered to the IUGG Book Series with the title: Future Earth: The Geodetic and Geophysical Perspective.