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The Climate and Cryosphere Project (CliC) and sustained observing networks beyond IPY

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The Climate and Cryosphere Project (CliC) (<http://clic.npolar.no>) is one of the four core projects of the World Climate Research Program (WCRP). CliC co-ordinates climate activities related to all parts of the earth's cryosphere. CliC is helping to co-ordinate the WCRP role in the IPY, in particular to insure that a legacy of data management, observational and research capabilities remains after IPY. CliC supports sustained observing networks in the Arctic and the Antarctic for all cryospheric components (sea ice, snow, ice shelves, icebergs, lake/river ice, and permafrost). IPY-related ongoing sustained networks include for example Arctic sea ice (the Integrated Arctic Ocean Observing System iAOOS, <www.iaaos.no>) and permafrost monitoring (Thermal State of Permafrost TSP, <www.ipa-permafrost.org>).

CliC has been instrumental in completing the IGOS-Cryo theme report: <<http://igos-cryosphere.org>>. This theme creates a framework for improved coordination of cryospheric observations conducted by research, long-term scientific monitoring, and operational programs, and to generate the data and information needed for both operational services and research. Implementation of CryOS observing networks will help insure the IPY legacy.

CliC takes part in the Sustained Arctic Observing Networks (SAON) Initiating Group, formed in 2007 to develop a set of recommendations on how to achieve long-term Arctic-wide observing activities that provide free, open, and timely access to high-quality data. SAON addresses issues of sustaining critical observational networks, including those introduced during the IPY, in a broad range of disciplines (atmosphere,

ocean, hydrology, cryosphere, terrestrial ecosystems, human dimensions).