TCODE Topic Session (S10) – Nov 2 (1/2 day)

"Data Management, Data Analysis and Data Delivery Systems to Support Detection and Prediction of Ecosystem Change in the North Pacific and the Arctic and Its Impacts"

Profound changes have occurred in the North Pacific climate system, in the composition, abundance and distribution of its living marine resources, and in the human societies that depend on the North Pacific Ocean and its resources. New and novel techniques are needed to handle the ever-increasing volume of scientific data and to understand its meaning with respect to climate variability, anthropogenic impacts and the combined impacts that these changes have already had, and can be expected to have, on North Pacific ecosystems. This session will address methods such as high-volume data management, cabled observatories, regime shift detection and prediction, and ocean observing systems. Presentations describing links with climate and ecosystem change in the Arctic and relating to the International Polar Year Projects are also welcome. Oral presentations and electronic posters are encouraged.

Co-Convenors: S. Allen Macklin (U.S.A.) and Kyu Kui Jung (Korea)

Invited Speaker: Benoît Pirenne (NEPTUNE Canada Project, University of Victoria, Canada)

Through referral from Robin Brown, Benoît Pirenne, has agreed to be the Invited Speaker for TCODE Topic Session S10. Benoît is Associate Director, Information Technology, for NEPTUNE Canada. He joined NEPTUNE Canada in October 2004 after having spent about 18 years at the European Southern Observatory (ESO), a leading Organization for astronomical research.

At ESO, Benoît assumed a number of scientific and technical (IT) positions. Most recently, he was Head of the Operations Technical Support Department in this Organization and was responsible for running the Data Management and Archiving system in support for the exponential growth of the data volume produced by both ESO and Hubble Space Telescope observatory data. His responsibilities included the management of a group of 16 people dealing with computer system management, database administration, archive operations and database content management. Other activities of the department included user support and adding values to the data.

The title of Benoît's PICES talk is "The NEPTUNE Canada Cabled Observatory Data Management System: Capturing and Delivering Terabytes of Data each Day".