PICES TCODE Data-Sharing Project to Federate Metadata on North Pacific Ecosystems: Phase III

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Significant progress has been made over the past two years to connect PICES member nations' metadatabase systems into one integrated resource. With this new scientific resource, a user of any one metadata inventory will have the ability to search for data catalogued by any and all other participating systems with a single search request. Using modern data management techniques to cross-search separate metadatabases provides the advantages of shared metadata without compromising national ownership, data integrity, or security of national metadata products.

TCODE adopted a pilot KODC-NPEM federation as part of its 2005 work plan. In Phase I of this project, the first two PICES nodes (PICES-NPEM, PICES North Pacific Ecosystem Metadatabase and PICES-KODC) were registered with the National Spatial Data Infrastructure clearinghouse. Since then a second KODC node and one Russian node have been brought on line. The status of the PICES nodes can be found at http://registry.fgdc.gov/serverstatus/, and the nodes can be searched by going to http://clearinghouse3.fgdc.gov/.

Last year we were successful locating a source of funding through the National Spatial Data Infrastructure Cooperative Agreements Program (NSDI-CAP) for Phase II of the project wherein we brought a Japanese node online on October 19, 2006. Over the past year, Phase II of this project included two successful planning meetings that discussed required technical details and technical hurdles and the means to address and solve problems associated with federating with JODC/MIRC. Success with these projects mean efforts with the remaining two PICES countries (Canada and China) will easily scale up with a nominal investment of time and planning.

The new 2007 NSDI CAP announcement will appear in early November and we plan to prepare at least one proposal to complete the PICES Metadata Federation.

TCODE proposes, as phase III, to federate with Canada and/or China and asks PICES to continue to support this project at the same level as last year, conditional on confirmation by Canada or China that they are willing to federate and that there will be suitable programs in the upcoming the announcement by NSDI CAP program against which we can propose for further financial assistance. PICES support will enable travel for training of node-country personnel in metadata standards and communication protocols required by the clearinghouse.

Funding history:

2005	NPEM	USD$ 6,000
	KODC	USD$ 6,000

	PICES	USD$ 4,000
	TOTAL	**USD$16,000**
2006	NSDI CAP	USD$20,000
	NPEM	USD$25,820
	MIRC	USD$ 7,652
	PICES	USD$ 4,000
	TOTAL	**USD$57,472**
2007	PICES	USD$ 4,000

2007 Budget: Two ~2-day meetings, 2 people to travel to country of international collaborator or USA at $US 2,000/person/trip. Meeting dates and locations will be determined at a later date.

Total cost: USD$ 4,000