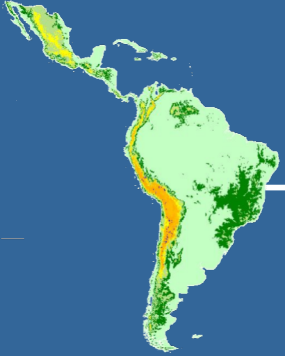


The Collaborative Network of the Inter-American Institute for Global Change Research: CRN 47- AARAM

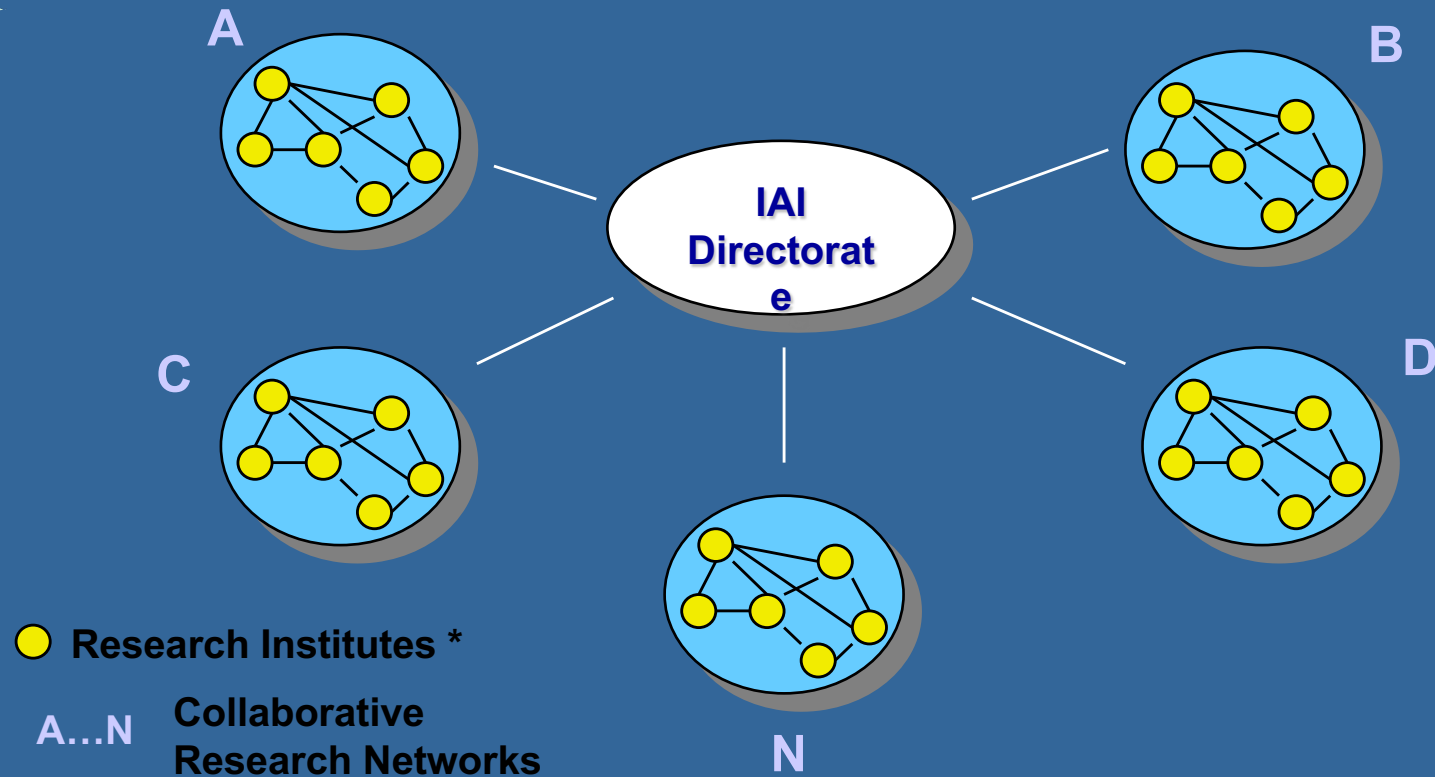
IAI Science Agenda

1. Understanding Climate Variability in the Americas;
2. Comparative Studies of Ecosystems, Biodiversity, Land Use and Water Resources in the Americas;
3. Changes in the Composition of the Atmosphere, Oceans, and Freshwater;
4. Integrated assessments, Human Dimensions, and Applications.

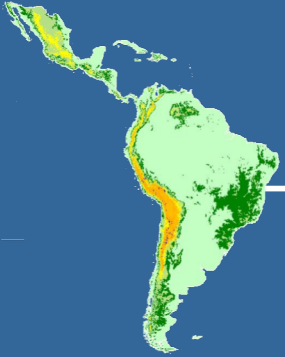




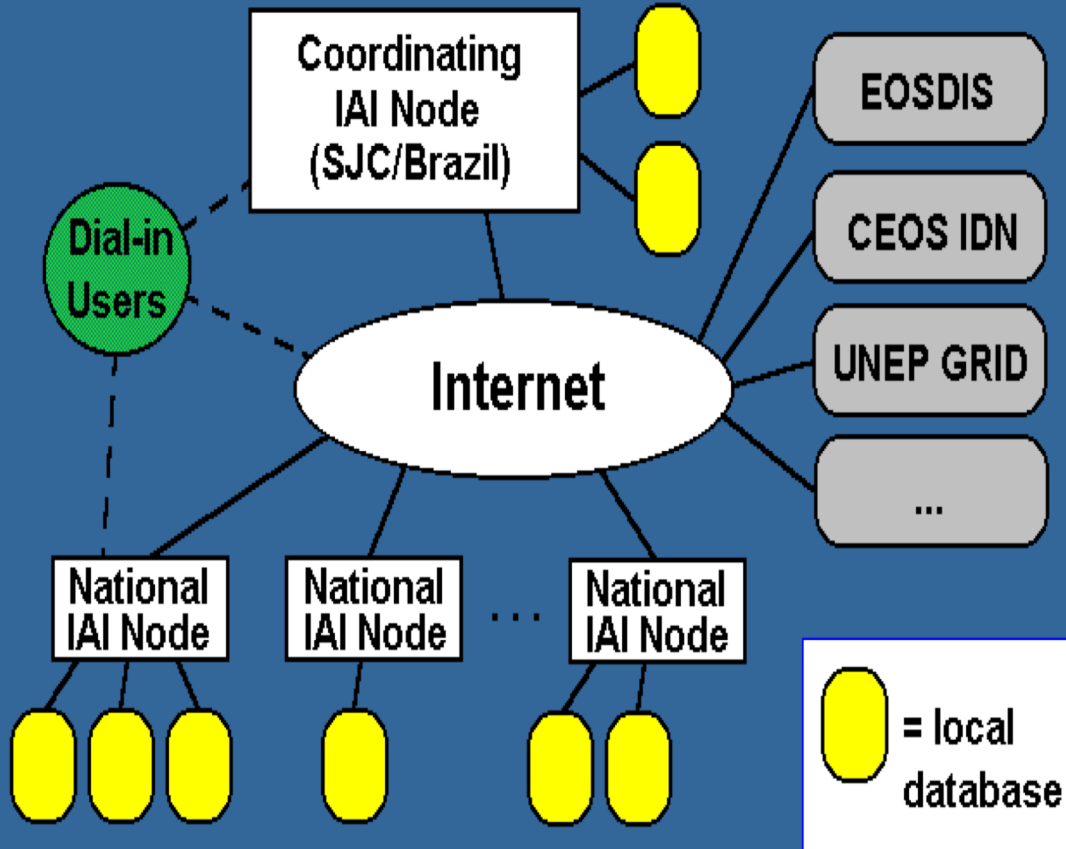
IAI Collaborative Research Network Structure



* Nearly 100 research institutions involved



IAI Data and Information System - DIS

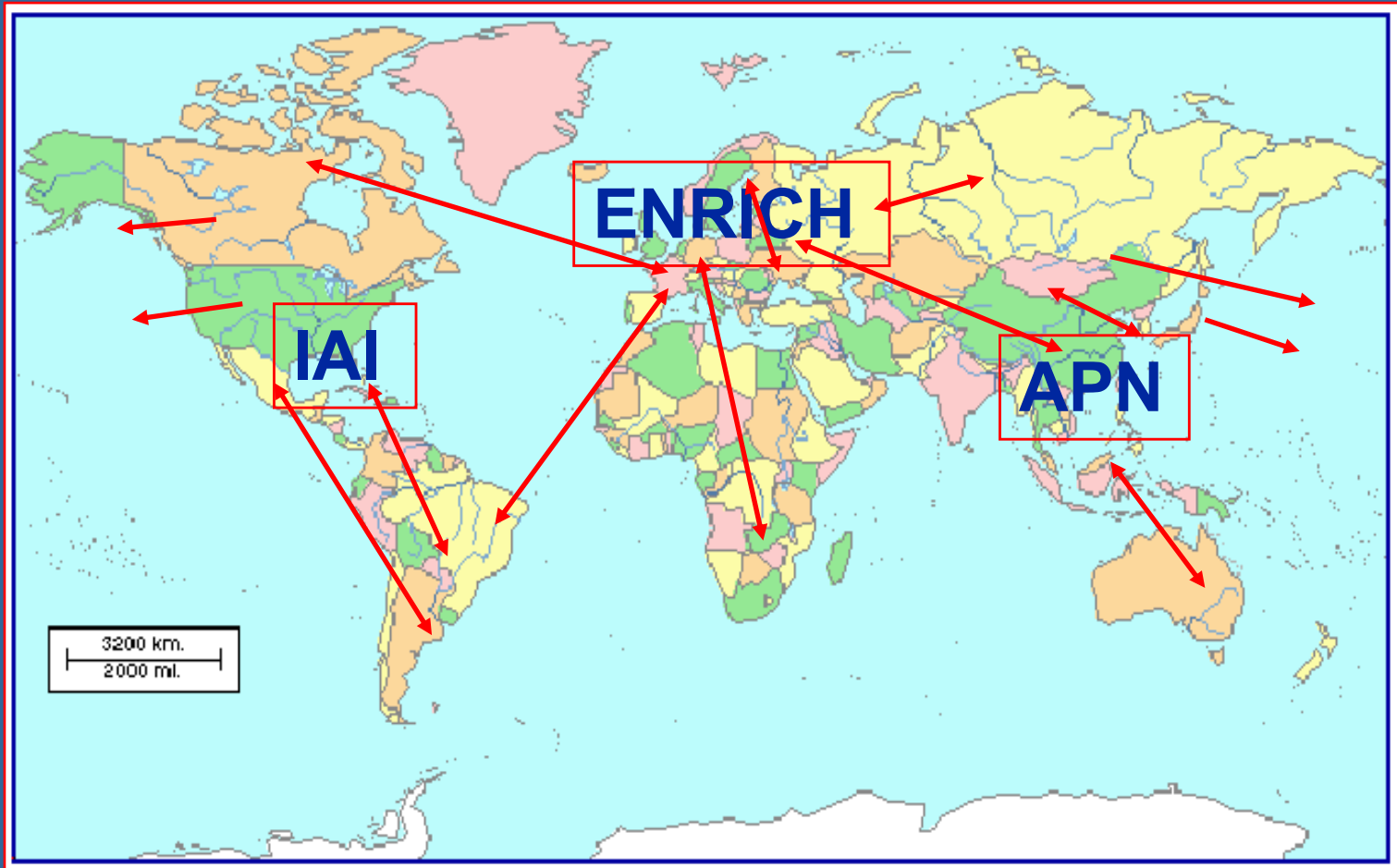


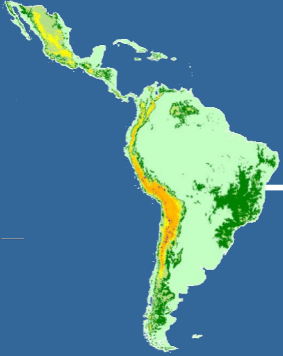
The Concept:

- Distributed Database Architecture;
- Coordinating Node / National Nodes;
- Lightweight Client/Server Software;
- Internet Backbone;
- Dial-in Access;
- Access to Relevant International Databases.



IAI Links to other Global Change Networks





The Andean Amazon Rivers Analysis and Management (AARAM) Project

Participating Institutions

Florida International University, Miami

Escuela Politecnica Nacional, Quito

Universidade de São Paulo - CENA, Piracicaba

Univ. Nacional Agraria La Molina, Lima

Univ. Mayor de San Andres, La Paz

Universidad de los Andes, Bogota

Université de Quebec à Montreal, Canada

Potsdam Institute for Climate Impact Research, Germany

Inst. de Hidrología, Met. y Estudios Ambient. (IDEAM), Bogotá

Instituto Nac. de Meteorología y Hidrología (INAMHI), Quito

Servicio Nac. de Meteorología y Hidrología (SENAMHI), Lima

Servicio Nac. de Meteorología y Hidrología (SENAMHI), La Paz

Centro de Agua del Trópico Humido para América Latina y el Caribe

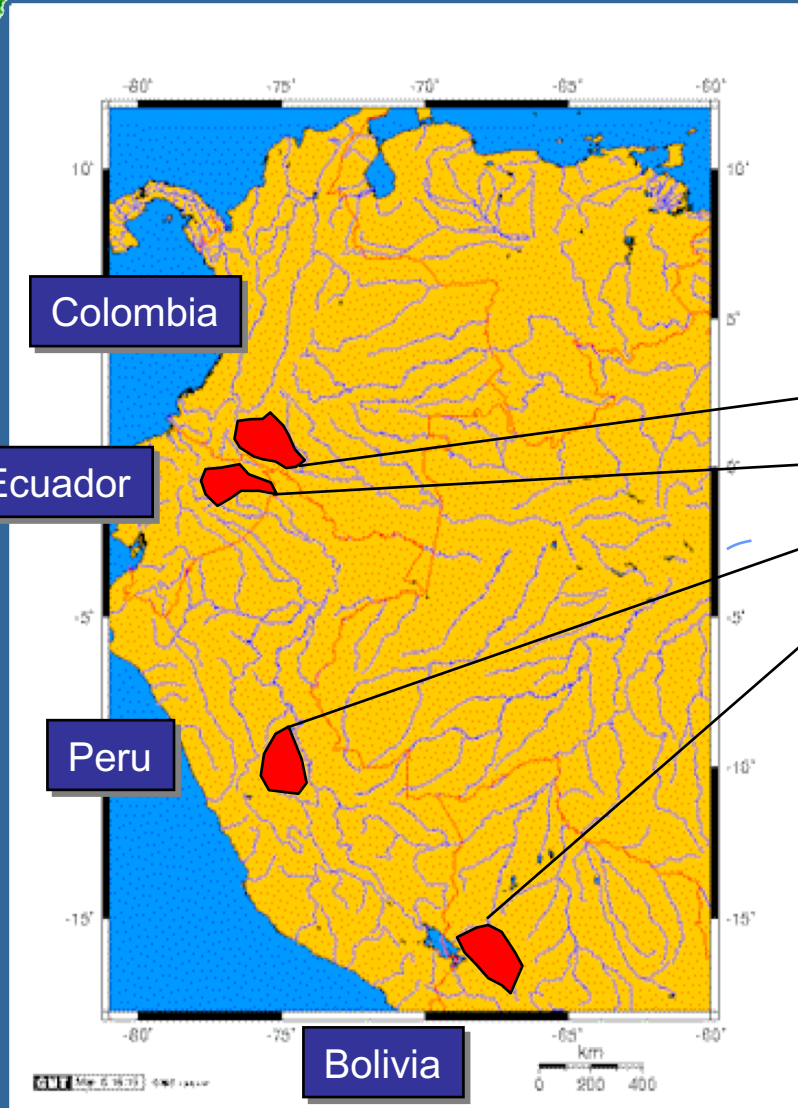
Instituto del Bien Comun, Lima

Pro Naturaleza, Lima

Fundación Salud y Desarrollo, Quito



The Andean Amazon Rivers Analysis and Management (AARAM) Project



AARAM research activities are conducted in pilot catchments in each of the Andean Amazon Nations

- Río Caquetá - Colombia
- Río Napo - Ecuador
- Río Pachitea - Peru
- Río Alto Beni - Bolivia

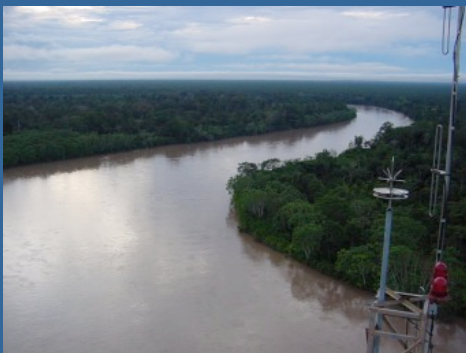
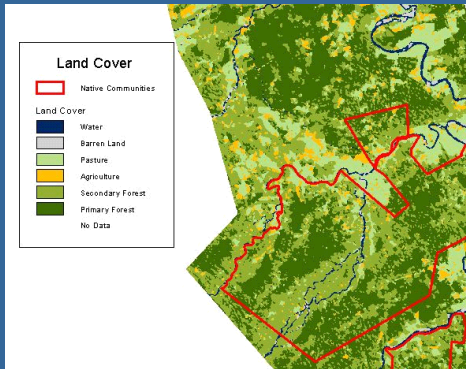
Main research activities are:

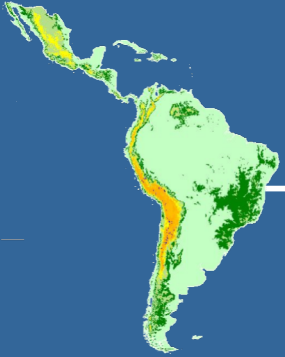
- Landscape Analysis
- Field Campaigns
- Computer Modeling



AARAM Science Objectives

- Determine the current spatial distribution of land use and land cover (vegetation, soils, geomorphology, etc.) in the region.
- Quantify the temporal fluxes of water, sediments, and solutes at points representative of the spatial variability of land use and land cover.
- Determine the processes (natural and anthropogenic) which control the spatio-temporal variation in these fluxes.
- Translate project findings into quantitative models which can be used for the effective management of land, water, and human resources of the region (considering changes in climate and land use).





AARAM Educational Activities



- Graduate and honor undergraduate thesis projects at all participating universities.

- GLOBE Project in Local Schools of the Pachitea Basin – nearly one year of climate and water quality data collected.



- Earthwatch volunteers participating in effort to characterize the region's aquatic biodiversity.