

The second Austral Summer Institute, Dichato, Chile 2002

The second Austral Summer Institute (ASI-II), under the umbrella of the Fundacion Andes – Universidad de Concepcion – Woods Hole Oceanographic Institution, was successfully carried out between 4 January 2002 and 2 February 2002. The Summer Institute of the year 2002 highlighted topics in the field of Physical Oceanography, and consisted of four non-overlapping classes, each representing an independent unit. The invited Professors, from the United States and Canada, are internationally recognized experts in their field, and we are thankful for their engaged participation.

All classes contained lecture units, and practical sessions, as well , were problem sets were solved by the students under the supervision of the professors. For the former, the station's lecture room was used, including an overhead projector, a slide projector, a Laptop and a Data Show unit. For the latter purpose, the old library of the Dichato's Marine Station was turned into a computer room, with 10 computers and two printers, connected via an internal net, and equipped with the programming languages MATLAB and FORTRAN, Ocean Data View, a tool to visualize and analyze oceanographic data, Office 2000 for report writing, and a Data Show system to facilitate teaching.

The first course stood out a bit, not only for its somewhat longer duration, but essentially owing to a two day long embarkation on board of the Kay-Kay, the Universities research vessel. Acoustic Doppler Current Profile measurements, together with CTD-OF stations were repeatedly gained along the mouth of Concepcion Bay. The data were processed and analyzed during the following week. Here, we would like to thank SHOA for lending us a towable catamaran and two ADCPs for this workshop.

In order to announce the second ASI we developed a poster and a web-page (<http://www.oceanografia.udec.cl>). The posters together with invitations and forms to apply were sent to all relevant Chilean Universities, Institutes and other governmental organizations, in total about 150, and to some (about 30) Universities and Institutes in other South American countries. The web-page displayed the announcement, application forms for downloading, contact information and a short description of the courses, including information about the visiting professors.

Owing to space limitations, unfortunately, not all postulations could be considered. Priority was given to professionals and graduate students in the field of physical oceanography, followed by candidates in other fields of oceanography. A limited number of qualified undergraduate students could be considered, too. In total, 37 students and professional from Chilean Universities and Institutes participated in the Summer Institute. Most of the students took part in one or two courses, whereas only one attended all four workshops. POGO, additionally, supported the

attendance of four more students from Latin American countries, which we herewith like to acknowledge. The foreign students came from Peru, Ecuador, Brazil and Argentine. The students could partly be housed in the station's guesthouse and partly in a rented house, close by.

The class topics were the following:

5 January (Saturday) – 11 January (Friday): Procesamiento de datos obtenidos con un perfilador acústico de corrientes remolcado. **Arnoldo Valle Levinson, Old Dominion University.**

14 January (Monday) – 18 January (Friday): Physical oceanographic data analysis with emphasis on the South Pacific Ocean. **Lynne Talley, Scripps Institution of Oceanography.**

21 January (Monday) – 25 January (Friday): Numerical techniques for oceanographers. **Susan Allen, University of British Columbia.**

28 January (Monday) – 1 February (Friday): Numerical models of ocean processes – The ocean response for severe storms. **Jim Price, Woods Hole Oceanographic Institution.**

All classes offered, were registered with the graduate school of the University of Concepcion, and weighted one credit each. Participants not enrolled at Universities or enrolled at the undergraduate level could apply for a certificate of attendance.

Difficulties:

The Summer Institute slightly suffered from the fact that the Biological Station in Dichato is not connected to the Internet, which prohibited a direct communication with international databases to download information and data online.

Last but not least, I like to close this report, by communicating to you the unanimous view of the visiting scholars that the Austral Summer Institute initiative in Dichato proved to be an excellent idea to reinforce Chilean University education in Oceanography, and to bring together the Chilean oceanographers of the next generation.

Wolfgang Schneider