

# AUSTRAL SUMMER INSTITUTE XI (ASI XI)

## University of Concepcion

Department of Oceanography & FONDAP COPAS Center  
January 2011



Universidad de Concepción



### *From Tsunamis to Water Pathogens: Understanding Ocean Hazards in the XXI Century*

#### **Understanding tsunamis and preparing to cope with (3-7 January)**

Bernardo Aliaga, Intergovernmental Oceanographic Commission UNESCO, France  
Sergio Barrientos, Universidad de Chile, Chile  
Marco Cisternas, Pontificia Universidad Católica de Valparaíso, Chile  
Marcelo Lagos, Pontificia Universidad Católica de Chile, Chile  
Irina Rafliana, Indonesian Institute of Sciences, Indonesia

#### **Tectonics and recurrence of great subduction earthquakes (10-14 January)**

Brian F. Atwater, U.S. Geological Survey, USA  
Marco Cisternas, Pontificia Universidad Católica de Valparaíso, Chile  
Andrés Tassara, Universidad de Concepción, Chile  
Gabriel Vargas, Universidad de Chile, Chile

#### **Marine hazards to human health: Natural and anthropogenic (17-21 January)**

Larry E. Brand, University of Miami, USA

#### **The ocean carbon cycle: From ocean acidification to oil spills (24-28 January)**

Mike DeGrandpre, The University of Montana, USA

#### **Sponsors**

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Partnership for Observation of the Global Oceans (POGO)

#### **For further information**

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#### **ASI Director**

Silvio Pantoja  
IOC Unesco Chair  
University of Concepcion

#### **Co-Director**

Fabián Tapia, University of Concepcion

Amp. (cm)



Courses are open to Chilean and foreign graduate and advanced undergraduate students, professionals and researchers.

Application deadline: September 30, 2010.

Registration fee: US\$ 250. Waivers available for qualified applicants.

