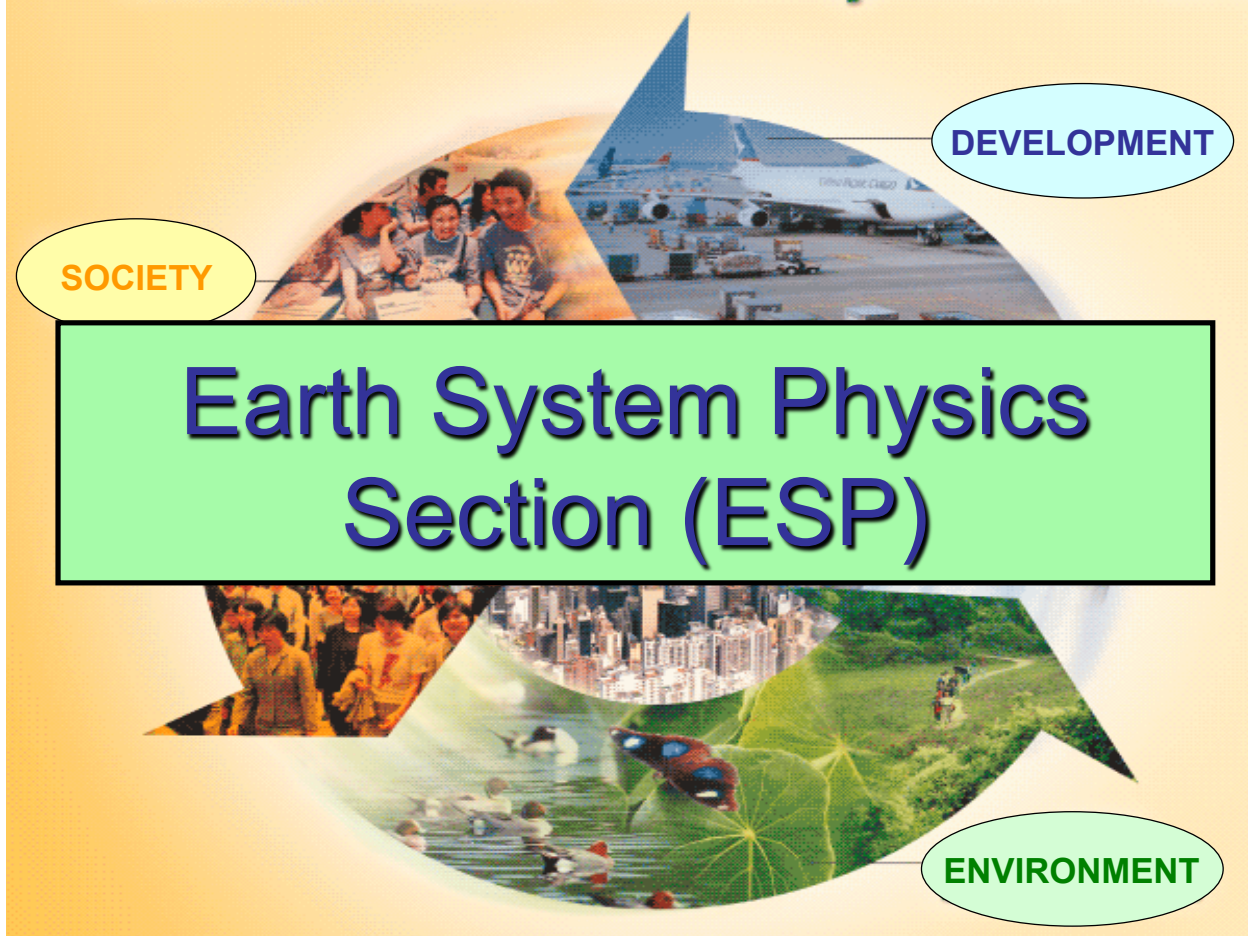


**SOCIETY**

**DEVELOPMENT**

# Earth System Physics Section (ESP)

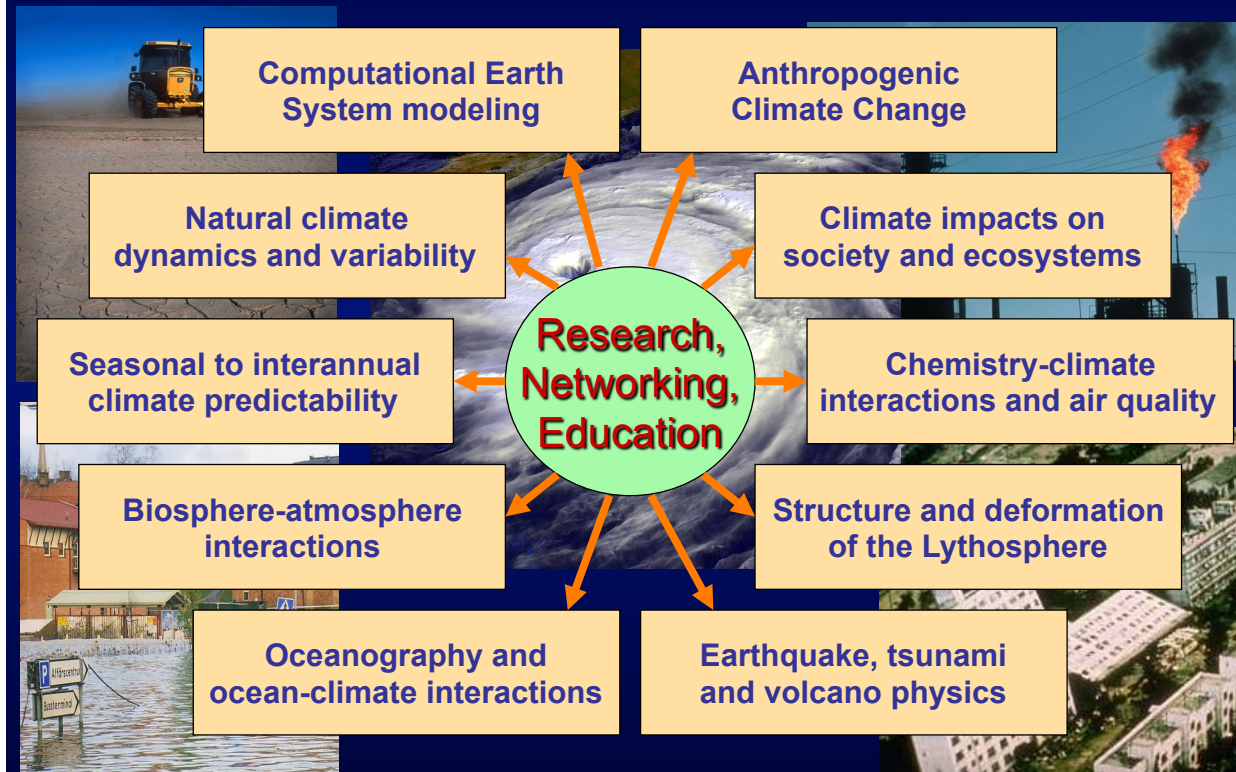
**ENVIRONMENT**



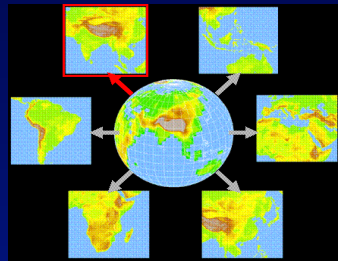
## Earth System Physics (ESP)

- 7 Scientific staff: Giorgi (head), Aoudia, Coppola, Farneti, Kucharski, Solmon, Tompkins
- 1 Software engineer: Giuliani
- ~20-25 Long term visitors, postdoctoral fellows and PhD students
- 2 staff associates
- 1 Senior consultant
- 10-12 Activities at ICTP and outside
- Diploma program with 10 students
- PhD with the University of Trieste
- Ms in Global Change Ecology with the U. Trieste

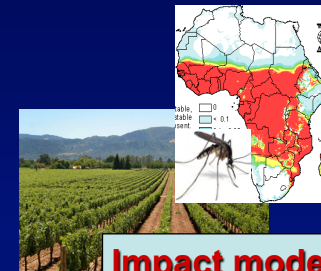
# ESP Main Research Areas



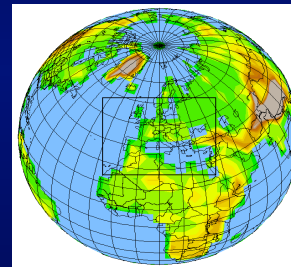
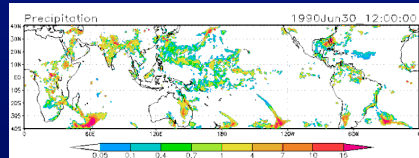
# Computational modeling in support of developing country needs



**Regional Earth System Modeling (RegCM-ROMS)**



**Impact models**  
**Health**  
**Food**  
**Water**  
**Land-use**



**RegCM Tropical Band**

**Intermediate Complexity Global Earth System Modeling (SPEEDY-NEMO)**

**Developing flexible and efficient tools for developing country needs**

# Earth Systems Physics Networks in Africa



- ▲ Climate Network
- ▲ AfriCARP (FITU) Network
- ▲ North African Seismological Group
- ▲ Sub-Saharan Africa Geophysical Group



SOCIETY

DEVELOPMENT

ENVIRONMENT

Thank you