

Environmental Science defined Nature of Environmental Science Why Environmental Science in a changing world Process of developing the draft Env Sci Research Agenda





FOCUS OF ENVIRONMENTAL SCIENCE

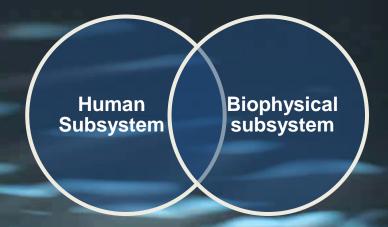
Atmosphere
Lithosphere
Hydrosphere
Biosphere and the
Human sphere.

"A science that examines the interactions of different components of the environment, specifically the interconnectivity of humans with the biogeophysical environment."

Scale local regional national Global **Bio-physical environment** Component 2020 Socio-economic environment 2010 2000

Multidimensional environment: components, scale and time dimensions.

Scale

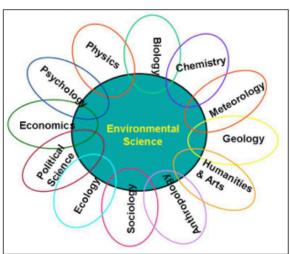


Environmental system (Rambo and Sajise, 1986)

SYSTEMS ANALYSIS AS A METHODOLOGICAL FRAMEWORK IN ENVIRONMENTAL SCIENCE

- System is an interrelated set of components, with an identifiable boundary, that are interacting regularly to perform a purpose.
- A system is composed of many smaller systems, known as subsystems.
- Systems range from simple to complex.

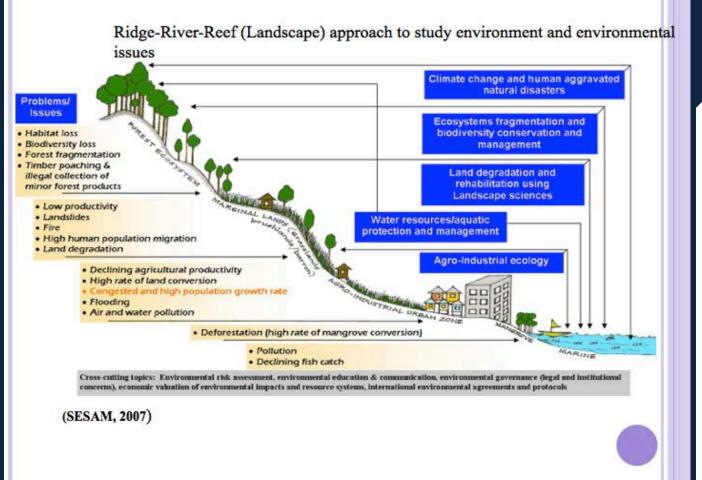
Environmental Science as an interdisciplinary science and moving towards transdisciplinary science



Environmental Methodologies and Approaches (e.g. Systems analysis, interdisciplinary, landscape approach)



Environmental Problems/Issues: Understanding dynamics and finding option or solutions



THE NATIONAL ENVIRONMENTAL SCIENCE AGENDA

- 1st National Symposium and Workshop on Environmental Science, 7-8 May 2012, organized by UPD, UPLB and ADMU
- Formation of the Technical Working Group UPD, UPLB, ADMU, UPV, UCebu, MSU, Tawi Tawi College of Technology and Oceanography (TCTO), XU Cagayan de Oro as a prelude to organizing a professional society
- Presentation of draft to Forum on Environmental Science at CHED, 28 June
 2012, organized by the CHED Technical Panel on Environmental Science

DELVING INTO THE NATIONAL ENVIRONMENTAL SCIENCE RESEARCH AGENDA

- Atmosphere— Dr. Tolentino Moya, UPD IESM
- Lithosphere
 — Dr. Rene Claveria, ADMU and
 Dr. Decibel Eslava, UPLB SESAM
- Biosphere— Dr. Lem Aragones, UPD IESM
- Hydrosphere— Dr. CP David UPD NIGS
- Humanosphere Dr. Rene Rollon, UPD IESM
 Dr. Rico Ancog, UPLB SESAM

WHEN WE WORK SMART

We collaborate, build partnerships, increase productivity and deliver quality knowledge products.

Our main objective in this forum is to bring forward our agenda so that this can be a shared undertaking among government, private and international organizations to address the persisting environmental problems and confront emerging environmental challenges, most specifically, climate change.

OUR EXPECTED OUTPUTS IN THIS FORUM

When our team works together we glide forward easily

- Integrating/Mainstreaming research needs and priorities of NGAs
- Discuss data sharing protocols among different agencies
- Priority sites/ fields as an area of collaboration
- Optimization of research budgets from NGAs and HEIs
- Sharing expertise/ database of experts
- Downloading of research output to NGAs

WE ARE DEDICATED TO MAINTAINING A NATURAL, SAFE AND GREEN ENVIRONMENT...



so that our children can enjoy the same resources and beauty that we have for generations.