

EXPERT'S PROFILE

Name of Grantee : Josefino C. Comiso, PhD

Area of Expertise : Physics, Climate Change

Inclusive Date of Contract as BSP Awardee : February 20 – March 30, 2020 (Phase 1)
July 31 – October 29, 2020 (Phase 2)
Short-Term engagement

Host Institutions : University of the Philippines Diliman
Institute of Environmental Science and Meteorology

Contact Details : josefino.c.comiso@nasa.gov



EDUCATIONAL BACKGROUND

- Ph. D. Physics, University of California at Los Angeles, 1972
- M.S. Physics, Florida State University, Tallahassee, 1966
- B.S. Physics, University of the Philippines, 1962

Professional Experiences

Senior Scientist (1999 - Present)

Cryospheric Sciences Branch, National Aeronautics and Space Administration

Physical Scientist (1979 – 1999)

Goddard Space Flight Center, National Aeronautics and Space Administration

Senior Member of the Technical Staff (1977 – 1979)

CSC

Research Associate (1973 – 1977)

University of Virginia

Assistant Research Physicist (1972 – 1973)

University of California - Los Angeles

Instructor (1963 – 1964)

University of the Philippines

Scientist (1962 – 1963)

Philippine Atomic Research Center, Quezon City, Philippines

To Be Accomplished as a BSP Awardee (Deliverables):

- Conduct quality control and analysis of large-scale precipitation and surface temperature over the entire Philippines using in situ and satellite data

- Analyze previous ground measurements to study the chlorophyll content and photosynthetic function of vegetation as related to its productivity
- Continue with the development of agricultural index for drought that is most suitable to the Philippines and perform associated validation studies
- Complete analysis of Landsat and MODIS data on forestry and assess the effectiveness of the Philippine National Greening Program including the conduct of case studies at the Sierra Madre forest
- Study deforestation and palm tree plantation projects in Mindanao with case studies in Zamboanga as well as biodiversity and land cover change in Palawan
- Continue to work on the book on “Rediscovering Laguna de Bay: A Vital Natural Resource in Crisis” specifically on editing and quality checking
- Participate in the analysis of Philippine satellite data (Diwata 1 and 2) and in the consultation for directions of the new Philippine Space Agency and specifics on new Philippine satellite sensors
- Analyze very-high resolution and Landsat data over coastal areas. Study seagrass, coral reefs, red tides and general locations of fish in the open seas
- Give lectures at UP Diliman - IESM and UP Los Baños – School of Environmental Science and Management (SESAM) and other institutions, including conduct of consultations with staff, faculty members and students