

The Secretariat of the Pacific Regional Environment Programme (SPREP) in collaboration with the World Meteorological Organization is supporting Pacific National Meteorological and Hydrological Services (NMHS) through the Pacific Meteorological Desk Partnership (PMDP) to meet weather, climate, water and ocean services development in the Pacific island region.

If you would like to learn more about a career in Meteorology please do contact your local NMHS or for regional related support contact the following:

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*A resilient Pacific environment, sustaining our livelihoods
and natural heritage in harmony with our cultures.*

"OKAY NIÑO...



... IT'S YOUR SISTER'S TURN!"

CHOOSING A CAREER IN METEOROLOGY

If you are interested in how our weather and climate works and how it impacts our communities, or if you like to analyse findings to provide advice and guidance to people, or if you have a natural affinity for science, then a career in meteorology may be for you!

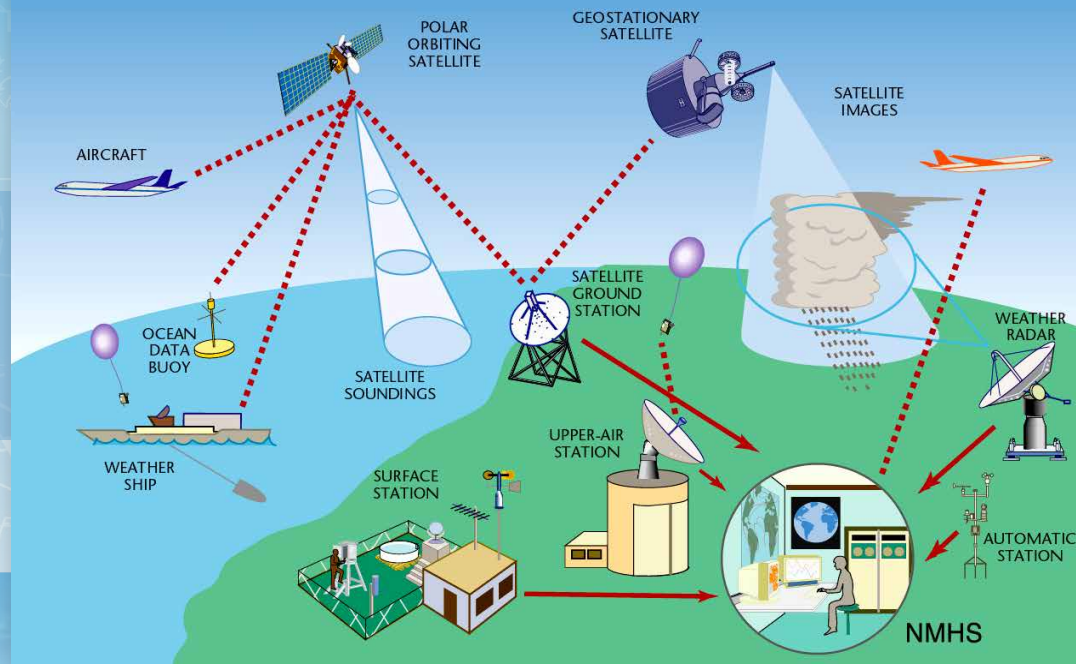


WHAT IS METEOROLOGY?

Meteorology is defined as the “*science of the atmosphere ... embracing both **weather** and **climate**. It is concerned with the physical, dynamical and chemical state of the earth’s atmosphere and with the interaction between the earth’s atmosphere and the underlying surface*”¹.

¹ Met Office. (2018). *What is Meteorology?* [online]. Available at: <https://www.metoffice.gov.uk/learning/what-is-meteorology>. [Accessed 7 Jun. 2018].

This is a Global Observation System, it shows how information from our atmosphere can be collected so we can give the best possible information to people so they can plan and prepare.



WHAT DOES A METEOROLOGIST DO?

Meteorologists must not only understand weather, climate and water dynamics but also be able to present the information to users in a manner that is timely and easy to understand. For Pacific island countries, understanding weather and climate is ever more important due to our vulnerability to climate change, climate variability (such as El Nino and La Nina) and climate extremes such as cyclones, floods and droughts.

Most of the Pacific island countries have National Meteorological and Hydrological Services (NMHS) are working around the clock to provide vital weather and climate information. Their early and reliable warnings of severe weather as well as of climate variability and change allow decision-makers, communities and individuals to be better prepared for weather and climate events. Their warnings help save life and property, protect resources and the environment and support socio-economic growth.

There are different areas of work in an NMHS, not all are the same across the Pacific islands depending on your national Meteorological Services, the following may be of interest to you:

METEOROLOGICAL SERVICES

Weather – includes the setup of networks to collate weather, climate and water related data for example for current forecasts of weather

Climate – climate observations, data management, products, predictions, projections and many more, for example for seasonal forecasts.

Climate Change – includes the science and policy, longer term observations, understanding climate change models and impacts

Geo-Science – all earth related science and hazards includes Tsunami, earthquake monitoring, coastal processes and more.

Hydrology – water supply, watershed management, hydrology, hydrogeology, flood and drought monitoring and more

Oceans – currents and tides, ocean monitoring, oceanography including offshore and deep sea mining and more.

IT & Communications – collecting and storing the data gathered by other parts of the Met Service, developing IT products to convey information to communities

Research – specialized research that can help direct the work of the Met Service

Administration – all Met Services require day to day assistance in organizing their work

SUGGESTED RELEVANT SUBJECTS FOR STUDY

Math, Physics, Chemistry, English, Environmental Science, Geography and Basic Science, Computer Science

Math, Physics, Chemistry, English, Environmental Science, Geography and Basic Science, Biology,

Math, Physics, Chemistry, English, Environmental Science, Geography and Basic Science Social Science, Marine Science, Biology, Economics, Development Studies

Math, Physics, Chemistry, English, Environmental Science, Geography and Basic Science, Earth Science, Geology, Marine Science

Math, Physics, Chemistry, English, Environmental Science, Geography and Basic Science

Math, Physics, Chemistry, English, Environmental Science, Geography and Basic Science, Marine Science

Math, Physics, Chemistry, English, Basic Science, Engineering, Social Science, Geography, Computer Science

Math, Physics, Chemistry, English, Environmental Science, Geography and Basic Science

English, Math, Economics, Accounting, Management, Human Resources