Introductory Training on Earth Observation (EO) and Geospatial Information Technology (GIT) Applications for Climate Resilience
Satellite Analysis and Applied Research

Course
Honiara, Solomon Islands

Date: 18 November 2019 to 22 November 2019
Duration: 5 days
Project Area: Satellite Imagery and Analysis

Website: http://www.unitar.org
Price: Free

Capacity development is a one of the key pillars of the CommonSensing (CS) project. Along with the Earth Observation (EO)-based tools, the CS project tends to implement capacity building activities to improve access to climate finance and to enhance the capacities of national stakeholders in Fiji, Vanuatu and Solomon Islands to process and understand
geospatial and climate information for operational planning and decision making. Technical training being one of the priority needs, the CS project tends to design training sessions to boost the skills needed to improve job performance of professionals. Therefore, as part of the proposed training activity, UNITAR’s Operational Satellite Applications Programme (UNOSAT) is conducting a one-week introductory training programme on the use of Earth Observation (EO) data and Geospatial Information Technology (GIT) applications for Climate Resilience at Honiara in Solomon Islands.

### 活动目标

The aim of this course is to provide participants with the introductory knowledge on Geographic Information System (GIS) and Remote Sensing (RS), their concepts, methodologies on risk assessment and satellite based mapping and its applications towards achieving disaster and climate resilience. The CS project realises the need for strengthening organisational integration and an enabling environment in order to focus on demonstrating the best practices on improving individual-level capacity by mainstreaming knowledge and reinforcing capacities. The consulted specialised departments from key ministries in Solomon Islands have mentioned their need to build institutional capacity in utilising satellite data in one of their priority needs under specific thematic areas such as DRR, food security, climate information and climate finance. Therefore, this training would be attuned to demonstrate country-specific needs in line with the outcomes from the scoping mission.

### 内容和框架

The course will focus on providing participants with a theoretical understanding of the basic principles of GIS and Remote Sensing (RS), how to collect data using geospatial tools such as GPS, smartphones and the basic skills needed for spatial analysis. Participants will also be given challenges to solve DRR related problems by developing decision support tools.

### 方法

This is full-time, face-to-face course with lectures and lab exercises using GIS databases and real case scenarios (60% lab exercises, 40% lectures and discussions). The course will be divided into five modules and each modules will be structured into four sessions of 1.5 hours each. The average workload per week is likely to be around 25-30 hours.

The course is designed in a way to have a balanced approach between theoretical and practical teaching methods consisting of PowerPoint presentations, live demos, videos, interactive sessions and GIS lab exercises. Towards the end of course, UNITAR-UNOSAT will set up the community of practice platform to maximize the learning experience of the participants and to provide all required technical backstopping and assistance to training participants during and after the training.

### 目标受众

The participants from Solomon Islands will be comprised of members of key Government line ministries, other stakeholders and students from academic institutions with the aim to improve the cross-sectoral exchange, learning and joint knowledge production.