

## TRAINING

### Empowering women in geospatial information technology – 2024 edition

09–12 July 2024 | Virtual (Zoom)

All timestamps are in [NPT](#).

#### Pre-training

Monday, 8 July 2024

Time	Topic
13:00–14:00	<b>Registration</b>
	<ul style="list-style-type: none"><li>• Introduction of participants – <b>Poonam Tripathi, ICIMOD</b></li><li>• Pre-training assessment</li></ul>

Tuesday, 9 July 2024

Time	Topic
13:00–14:00	<b>Opening session (S1)</b>
	<ul style="list-style-type: none"><li>• Training overview – <b>Poonam Tripathi, ICIMOD</b></li><li>• Air Quality Monitoring in the HKH Region: Harnessing the Power of Earth Observation, GIT and Women (Keynote speech) – <b>Dr. Binita Pathak, Assistant Professor, Department of Physics, Dibrugarh University, Assam, India</b></li><li>• SERVIR efforts on bridging the gender gap in HKH (10 min) – <b>Birendra Bajracharya, ICIMOD</b></li><li>• Virtual group photo</li></ul>
14:00–15:00	<b>Afternoon session (S2)</b>
	GIS concepts and applications for air quality – <b>Poonam Tripathi, ICIMOD</b>
15:00–15:15	Break
15:15–16:30	<b>Afternoon session (S3)</b>
	<ul style="list-style-type: none"><li>• Hands-on exercises – <b>Poonam Tripathi, ICIMOD</b></li><li>• Vector data exploration and visualisation in QGIS</li><li>• Working with vector data, layer properties, projection, symbology, label tools, etc.</li><li>• Using vector geometry tool to calculate area, field calculator, and joining attributes</li><li>• Exploring geoprocessing tools</li><li>• Using query builder to perform queries</li></ul>

Wednesday, 10 July 2024

Time	Topic
<b>13:00–15:00</b>	<b>Afternoon session (S4)</b>
	<ul style="list-style-type: none"><li>• Reflections of the previous day – <b>Poonam Tripathi, ICIMOD</b></li><li>• RS concepts and AQ applications – <b>Poonam Tripathi, ICIMOD</b></li><li>• Hands-on exercises – <b>Poonam Tripathi, ICIMOD</b></li><li>• Exploration and analysis of raster data in QGIS, visualisation, merging, and clipping</li><li>• Raster data for Air Quality Index</li></ul>
<b>15:00–15:15</b>	Break
<b>15:15–16:30</b>	<b>Afternoon session (S5)</b>
	<ul style="list-style-type: none"><li>• Hands-on exercises – session continued <b>Poonam Tripathi &amp; Arshini Saikia, ICIMOD</b></li><li>• Use of raster operations to perform image calculations for AQ analysis</li></ul>

Thursday, 11 July 2024

Time	Topic
<b>13:00–15:00</b>	<b>Afternoon session (S6)</b>
	<ul style="list-style-type: none"><li>• Reflections of the previous day– <b>Poonam Tripathi, ICIMOD</b></li><li>• Introduction to Air Pollution and Climate Change – <b>Bhupesh Adhikary, ICIMOD</b></li><li>• Monitoring &amp; Measurement tools to understand Air Pollution– <b>Arshini Saikia, ICIMOD</b></li><li>• Data Analysis and Visualization in Python– <b>Suman Sanjel, ICIMOD</b></li></ul>
<b>15:15–15:30</b>	Break
<b>15:30–16:30</b>	<b>Afternoon session (S7)</b>
	Map production in QGIS – <b>Poonam Tripathi, ICIMOD</b>

Friday, 12 July 2024

Time	Topic
<b>13:00–15:15</b>	<b>Afternoon session (S8)</b>
	Reflections of the previous day– <b>Poonam Tripathi</b> , ICIMOD Introduction of the SERVIR AQ products – <b>Arshini Saikia</b> , ICIMOD Hands-on on SERVIR-HKH air quality services and applications – <b>Suman Sanjel</b> , ICIMOD
<b>15:15–15:30</b>	<b>Break</b>
<b>15:30–17:00</b>	<b>Afternoon session (S9)</b>
	Reflections on the training – <b>Rajesh Bahadur Thapa</b> , ICIMOD Post-training assessment – <b>Poonam Tripathi</b> , ICIMOD Closing remarks – <b>Birendra Bajracharya</b> , ICIMOD