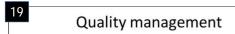
Democratic Socialist Republic of Sri Lanka 6 Challenges in rainfall observation Challenges in rainfall observation 2 Challenges in rainfall observation o automated rain gauges have been installed with ollaborate other agencies such as tea states. 7 out of 10 is wo been working. But, reading cannot be guaranteed acause there is no regular maintenance of the rain gauges 37 Automated Weather 23 Synoptic Stations Systems are installed under 4 Pilot Balloon Stations JICA aids in 2009. 21 out of 37 are located in our 1 Radiosonde Station Nowadays we are planning to install 100 automated rain gauges to get real time observations for disaster purpose. Most probably locations will be river basins. synoptic stations. Usually, our head office can be received rainfall amount from AWSs for every 10 Automated rain gauge and AWSs rain gauges are tipping bucket type. We have no proper methodology to calibrate them. Actually, there are no instruments as well as knowledge. We have 23 synoptic stations in Sri Lanka. Rainfall is measured by a qualified meteorological observer for every 3 hours at those There is a big gap of quality controlling process. Really, we did not follow a proper quality controlling methodology for rainfall. But, these days our satellite communication link has been broken and we will have proceeded IP VPN addition, locations. In pluviographs have binstalled at same locations. 4 Challenges in rainfall observation Challenges in rainfall observation 7 Annual Average Rainfall Other 520 rain gauges are installed all over the country 40 Agro- Meteorological Stations collaborating with different type Department of Meteorology provides rain gauges and sufficient knowledge to maintain a small enclosure for the rain We have 31 collaborative agro-meteorological stations and receive 24 hour rainfall from those stations. There are qualified observers at those gauge and to get readings. But most of the readers are not stations and we regularly give qualified or have not trainings to them. sufficient education background. measurement conguaranteed cannot Major recent rainfall-related disaster Major recent rainfall-related disaster Major recent rainfall-related disaster Major recent rainfall-related disaster 12 17 18 Rain gauge network Applications and users Red Stars represent the Synoptic stations with rain gauge. Both conventional gauges and Tipping bucket rain gauges are used in to statuous. It observes every 3 hour data from conventional gauges and every 10 minutes and transmit the data. Minimuge observation unit is 0.1mm. Matistical data we stored .



conduct following quality management operations.



Rain gauge inspection once a year or anytime if necessary

Green dots represent the agro-meteorological rain g Observers read the rainfall value at 0830 and 1530 SLST and rep Minimum observation unit is 0.1mm. Statistical data are stored
Black dots represent the collaborative stations.
Readers get the rainfall values at 0830 SLST and some are reported
everyday and some are once a month.

- Site environmental check once a year or anytime if necessary Daily appearance check at synoptic stations
- Training for the observer

Expectation of this workshop

Previous day rainfall observations at selected stations to the web for the

Knowing how to adopt quality management

Casella type cylindrical measuring item is used to get rainfall value

- Knowing how to calibrate tipping bucket rain gauges and conventional rain gauges
- Getting some skills of quality control for observation data Getting some tools of AQC and HQC
- Getting some materials for lecturing about quality management in my office
- Making firm relationships between participants to exchange useful information after the worksho



Issuing rainfall data for researchers, students and any other people or organizations