

# Automated Weather Station at Aranayake, Central Sri Lanka

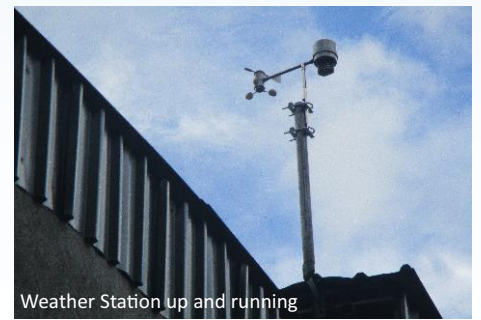
**Main Partners:** Foundation for Environment, Climate, and Technology [FECT]; Maldives Meteorological Services [MMS]; NASA's Goddard Space Flight Center [GSFC]. **Sponsors:** US National Academy of Sciences and USAID.



Aranayaka Landslide



Asupiniella Power Plant



Weather Station up and running

On the 15th and 16th of May of 2016, 127 persons died due to a landslide and flood disaster at Aranayake in the Kegalle District in Central Sri Lanka. Although we had anticipated extreme rainfall during these dates, and this was identified as a region with landslide risk, warnings or risk management were not effectively communicated. As the region recovers, we are trying to learn lessons from what happened here. As part of this effort, we are collecting historical climate data and setting up an automated weather station. This addresses the key question of whether we can have localized ground observed data.

We have set up an automated weather station and constructed at the 2 MW Asupiniella Mini hydro power plant (7° 7' 42" North, 80° 28' 44" South & 741 feet elevation) close to Aranayake. The data acquired from this station is recorded several times an hour and archived. In the future data shall be uploaded to [http://www.tropicalclimate.org/fect\\_aranayaka\\_weather/](http://www.tropicalclimate.org/fect_aranayaka_weather/) after internet connectivity issues are addressed.



FECT Team: From right - Dr. Lareef Zubair, Dulika, Ashara, Janathan and Tuan

**Foundation for Environment, Climate and Technology- Aranayaka Niminthu asupini ella hydro plant weather**

Latitude N 07° 08' 35" Longitude E 80° 27' 56" Elevation 751 ft

Diurnal	06:57	Sunrise	06:57	Moonset	07:51
Dusk	18:07	Sunset	18:46	Moonrise	20:01
Daylight	12:52	Day Length	11:49	Moon Phase	Waning Crescent

Welcome to Foundation for Environment, Climate and Technology- Aranayaka Niminthu asupini ella hydro plant

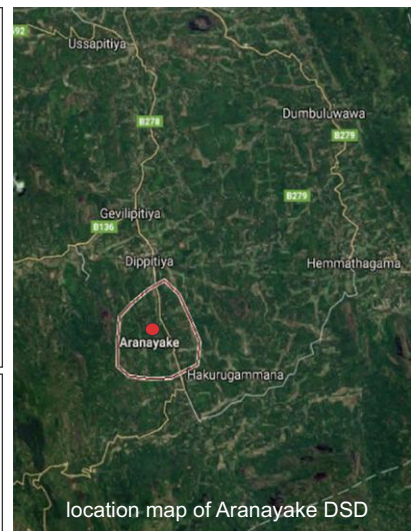
The weather station is set in use in the WS-2015; and these pages are updated every 15 minutes. The meteorological data used at this station ends at midnight.

Forecast: Fine, possible showers

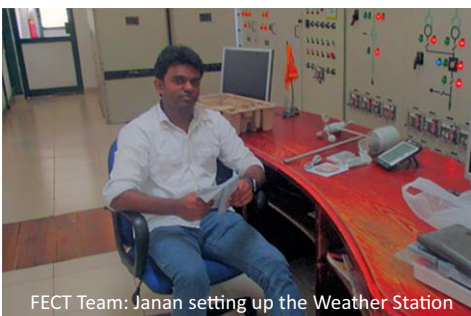
<b>Temperature and Humidity</b>	22.7 °C	<b>Dew Point</b>	24.2 °C
Temperature	22.7 °C	Humidity	81%
Windchill	21.3 °C	Apparent Temperature	13.3 °C
Heat Index	31.3 °C	Evapotranspiration Today	0.00 mm
Solar Radiation	0.96 kcal	Rainfall Rate	0.0 mm/hr
Rainfall	15.0 mm	Rainfall This Year	15.0 mm
Rainfall Today	15.0 mm	Last rainfall	2017-03-29 13:10
Rainfall This Month	22.8 mm	Wind Speed (avg)	1.5 km/h
Rainfall Last Month	22.8 mm	Wind Direction	148° var
Wind	11.9 km/h	Falling slowly	-0.1 kPa/hr
Wind Speed (max)	200.0%		
Wind Direction	301.2 kPa/h		
Pressure			
Humidity			

Page updated 1/29/2017 4:45:13 PM  
powered by [Climatix v 9.4 \(2009\)](http://www.climatix.com)

Summary of Weather in Aranayaka Asupiniella Hydro Power Plant



location map of Aranayake DSD



FECT Team: Janan setting up the Weather Station

**About FECT**

FECT a non-profit organization registered in Sri Lanka, Maldives, Comoros and New York since 2003 working to apply science for societal welfare and ecological sustainability. It builds on collaborative projects between the International Research Institute for Climate and Society at Columbia University and the Mahaweli Authority of Sri Lanka.

**About Lanka Transformers**

LTL was established in 1982 with the aim of producing indigenous transformers as a joint venture of the Ceylon Electricity Board (the power utility of Sri Lanka) and European investors. Its work now extends to Asia and Africa and sectors such as renewable energy.



Weather instrument before mounting



Dodeloya Estate

**Contact Us:** Foundation for Environment, Climate and Technology Web: <http://tropicalclimate.org/maldives/>  
c/o Mahaweli Authority of Sri Lanka, [www.tropicalclimate.org](http://www.tropicalclimate.org)  
Digana Village, Rajawella, Kandy KY 20108. Sri Lanka [www.climate.lk](http://www.climate.lk)  
Telephone : +94-812376746, +94-814922992

