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.

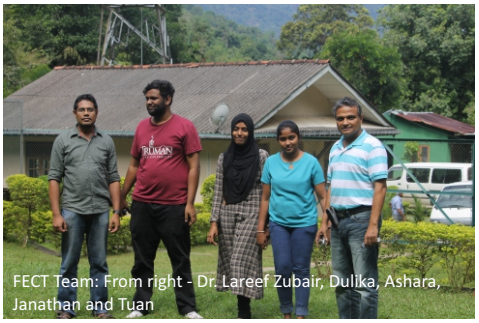
Aranayaka Landslide

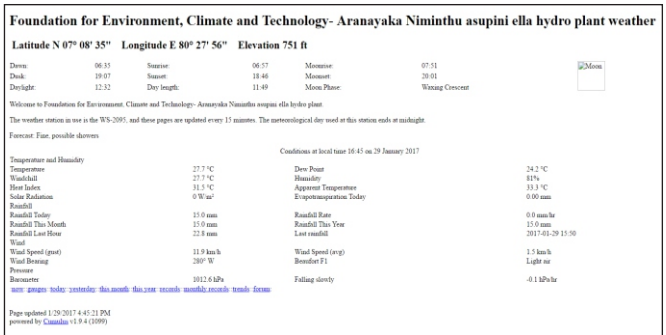
Asupiniella Power Plant

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/ 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

Dawn:	06:35	Sunrise:	06:57	Moonrise:	07:51
Dusk:	19:07	Sunset:	18:46	Moonset:	20:01
Daylight:	12:32	Day length:	11:49	Moon Phase:	Waxing Crescent

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

The weather station in use is the WS-2095, and these pages are updated every 15 minutes. The meteorological day used at this station ends at midnight.

Forecast: Fine, possible showers

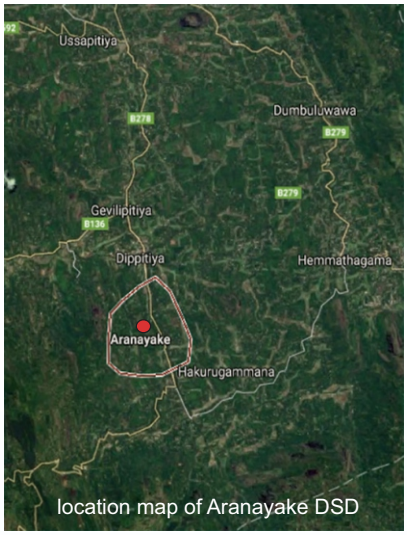
Conditions at local time 16:45 on 29 January 2017

Temperature and Humidity			
Temperature	27.7 °C	Dew Point	24.2 °C
Windchill	27.7 °C	Humidity	81%
Heat Index	31.5 °C	Apparent Temperature	33.3 °C
Solar Radiation	0 W/m²	Evapotranspiration Today	0.00 mm
Rainfall			
Rainfall Today	15.0 mm	Rainfall Rate	0.0 mm/hr
Rainfall This Month	15.0 mm	Rainfall This Year	15.0 mm
Rainfall Last Hour	22.8 mm	Last rainfall	2017-01-29 15:50
Wind			
Wind Speed (gust)	11.9 km/h	Wind Speed (avg)	1.5 km/h
Wind Bearing	280° W	Beaufort F1	Light air
Pressure			
Barometer	1012.6 hPa	Falling slowly	-0.1 hPa/hr

now gauges today yesterday this month this year records monthly records trends forums

Page updated 1/29/2017 4:45:21 PM
powered by Cumulus v1.9.4 (3099)

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.

Weather instrument before mounting

Doteloya Estate

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.

Contact Us: Foundation for Environment, Climate and Technology
c/o Mahaweli Authority of Sri Lanka,
Digana Village, Rajawella, Kandy KY 20108. Sri Lanka
Telephone : +94-812376746, +94-814922992

Web: http://tropicalclimate.org/maldives/
www.tropicalclimate.org
www.climate.lk