

Use of FENGYUN Satellite in Sri Lanka

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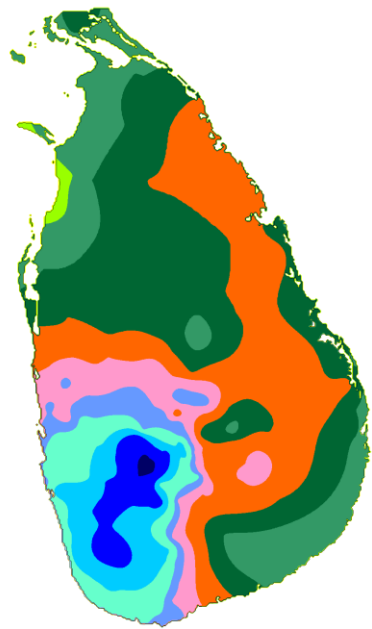
Sri Lanka

- An island in the Indian Ocean located within the $5^{\circ}55'N$ to $9^{\circ}51'N$ and $79^{\circ}42'$ to $81^{\circ}53'$ in Southern Asia
- Weather is both tropical and monsoonal
- Weather is mainly affected by systems formed in Bay of Bengal

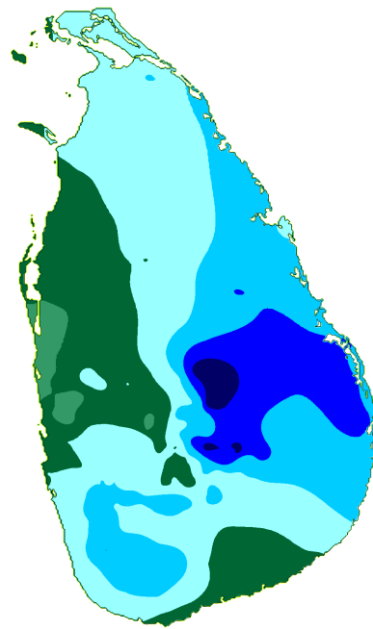
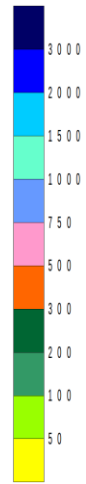


Climatic seasons

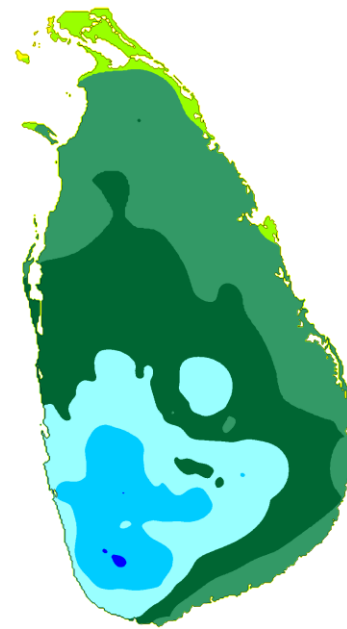
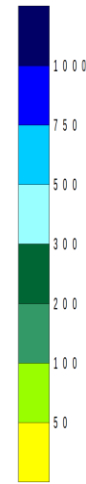
- Southwest monsoon - May to September
- Northeast Monsoon - December to February.
- Two Inter-monsoon Seasons - March-April and October–November



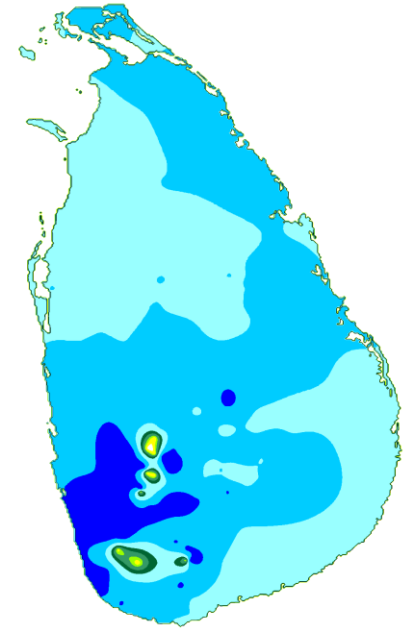
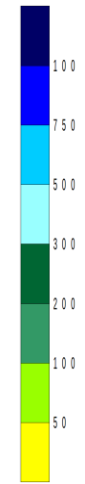
SW monsoon



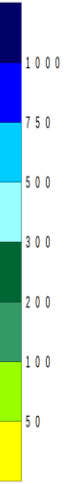
NE monsoon



1st Inter monsoon

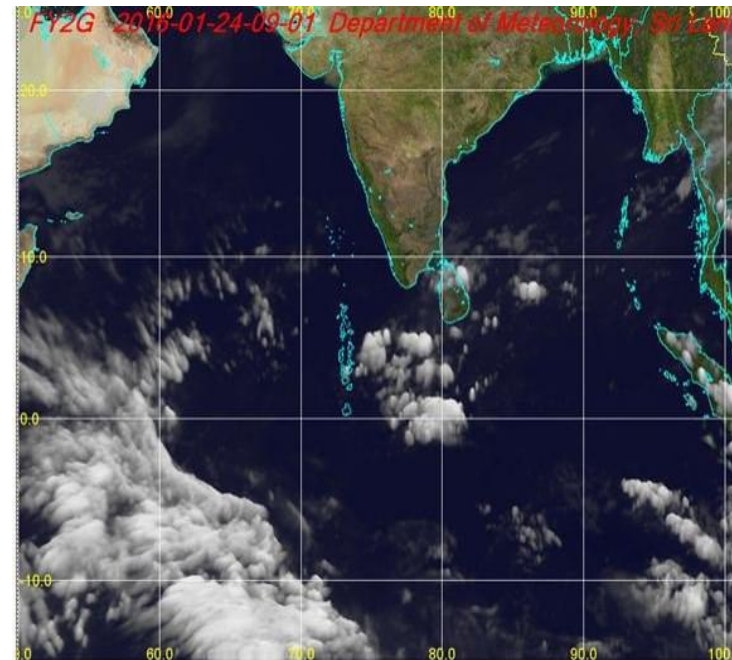


2nd Inter monsoon



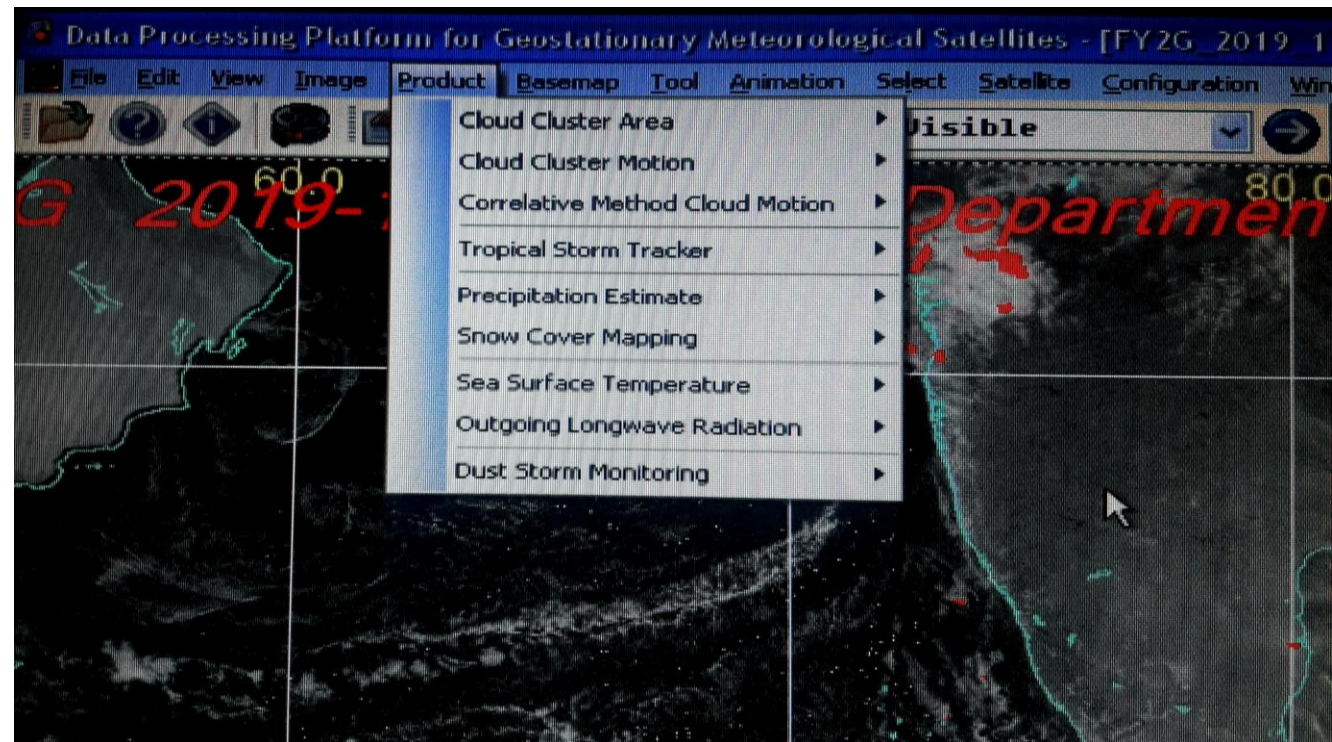
History of using FENGYUN Satellite in Sri Lanka

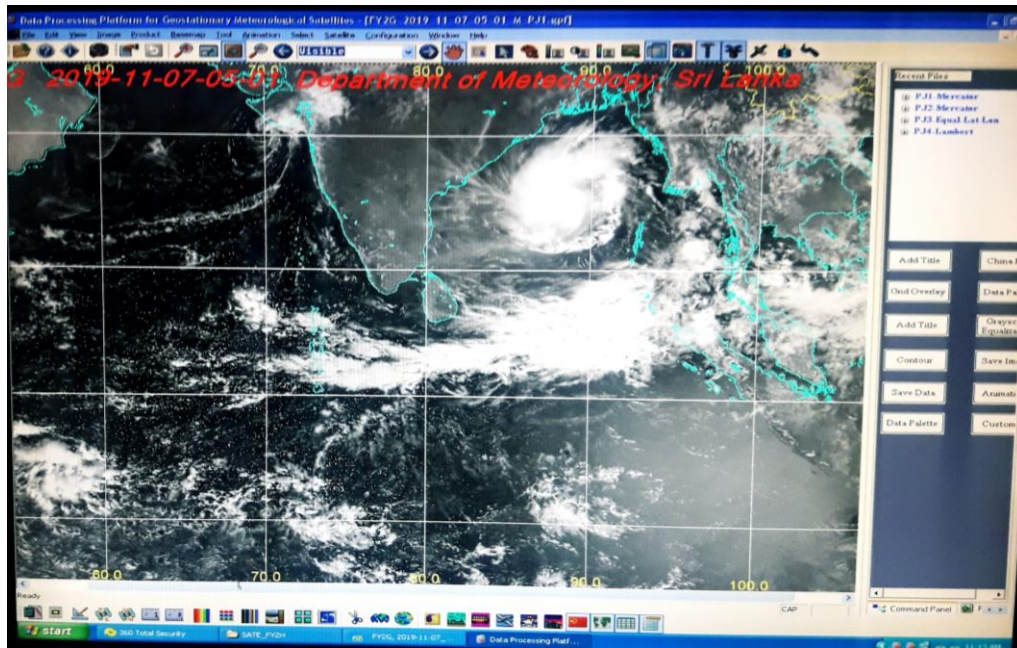
- First received in 2009
- Upgraded to current system in 2015
- Receive satellite products from FY2E, FY2D, FY2H, FY2D & FY2G
- Products receive every 30 min



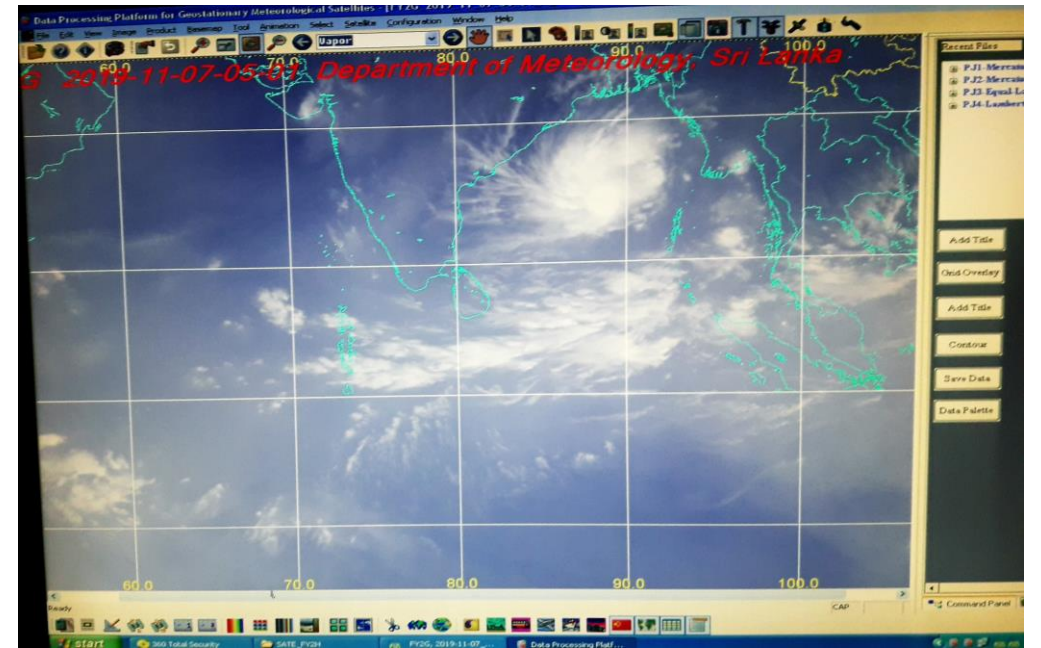
Uses of satellite products

- Now casting – Real time images
 - Early warn thunder activity
- System movement
- System development

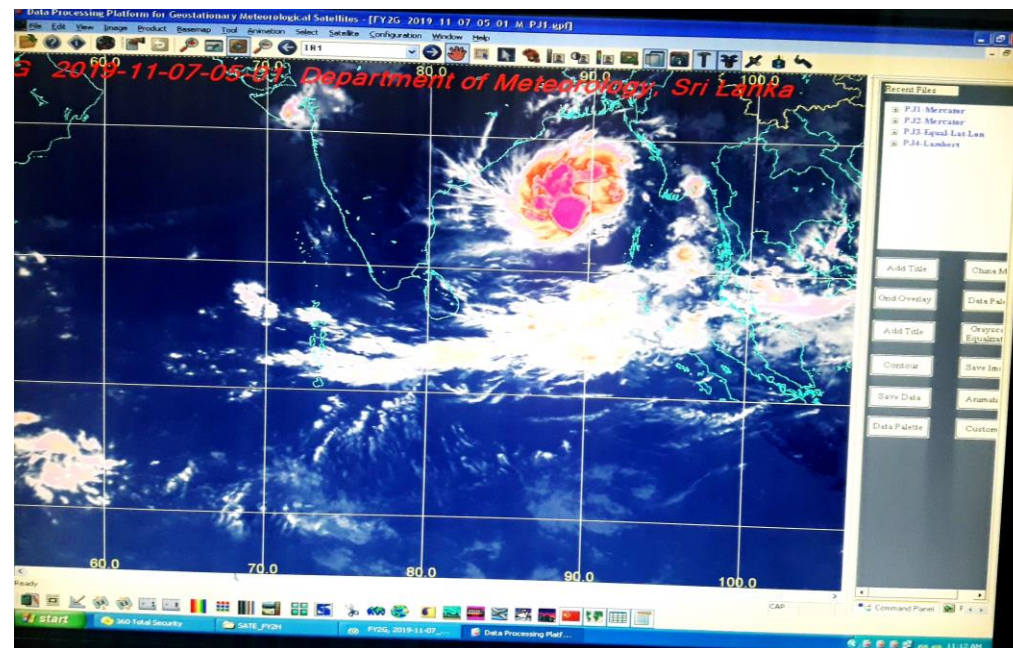




Visible



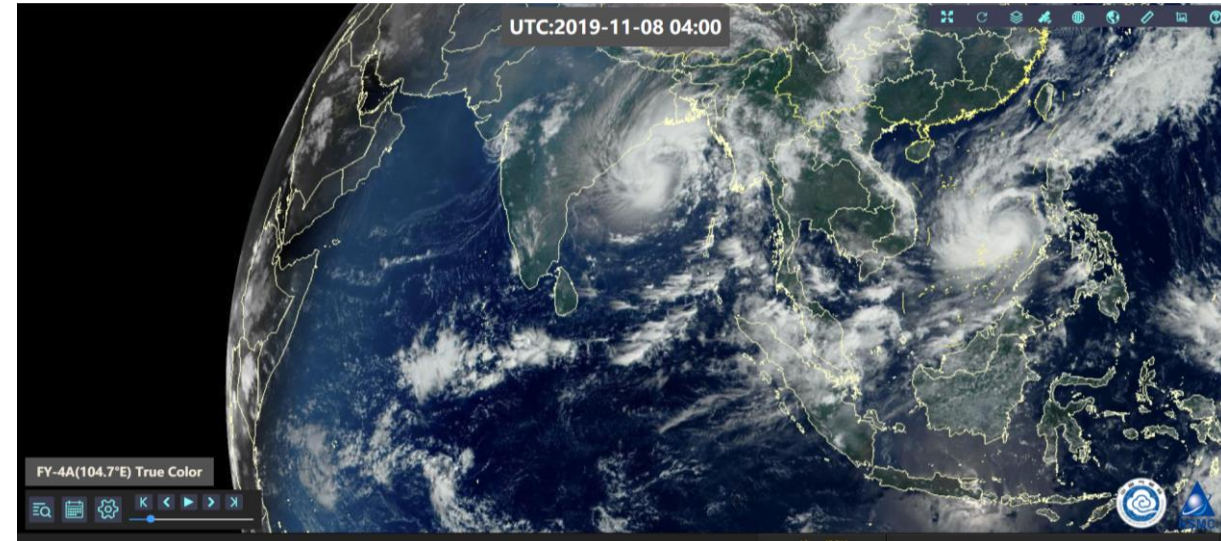
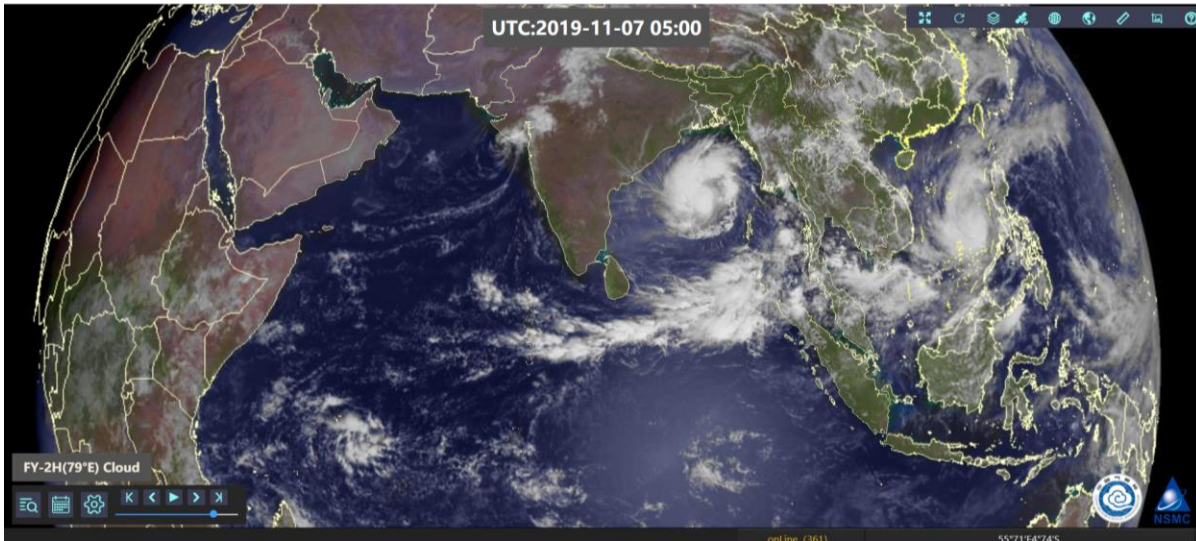
Vapor



IR

Use of online version

- Every 15 min
- For SIGMETS – in aviation
 - Cloud top temperature
 - Cloud cluster area



Further Requirements

- Upgrade of the software
- Data receive more frequently – at the moment data received every 30 min
- Assistance in severe weather situations (eg: Flood monitoring)
- Start new research using FY satellite products

Acknowledgment

- For giving FY satellite receiving system
- Received spare parts soon as requested
- For inviting for the training

