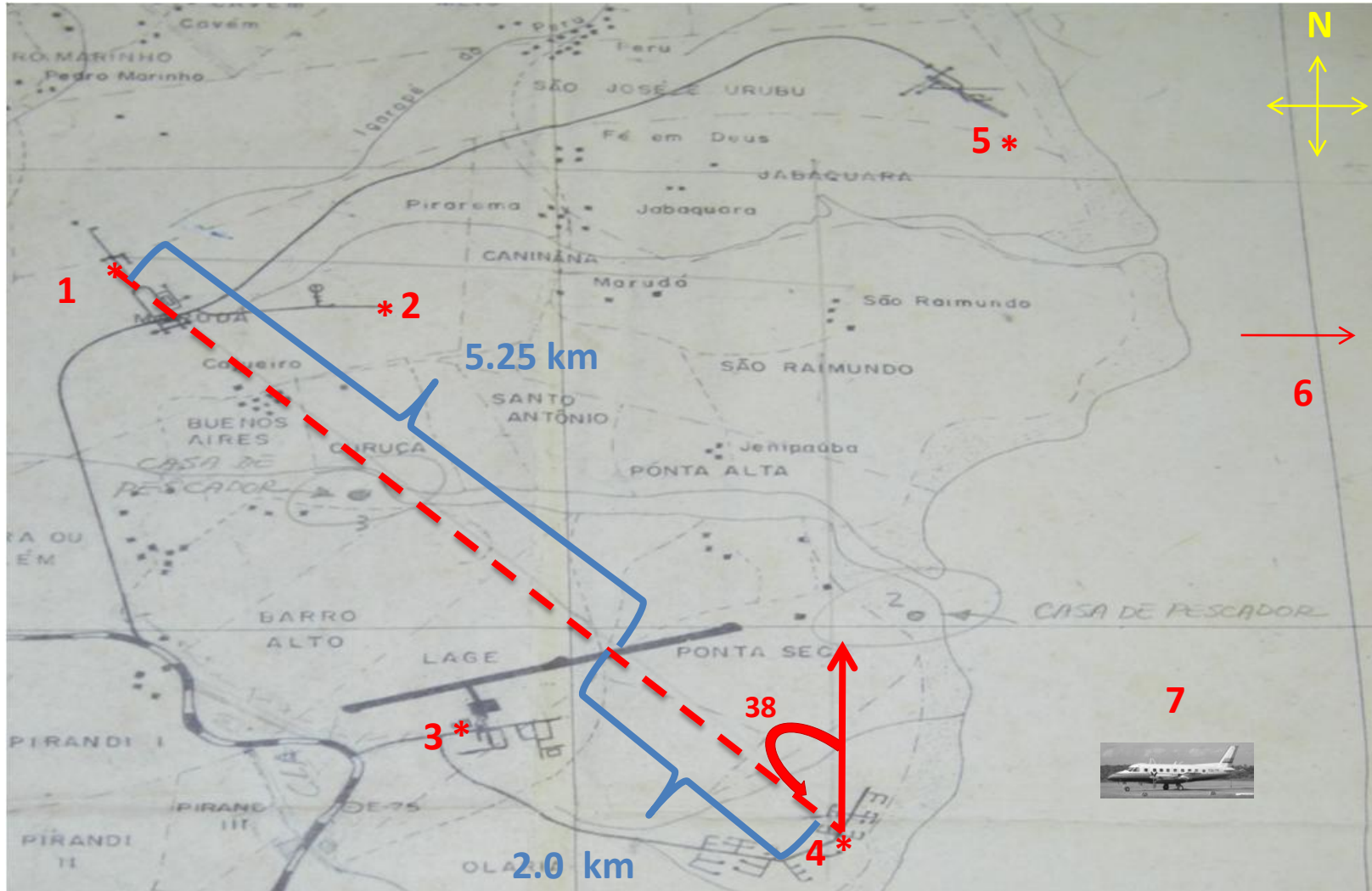




GPM-CHUVA 2010



Sites



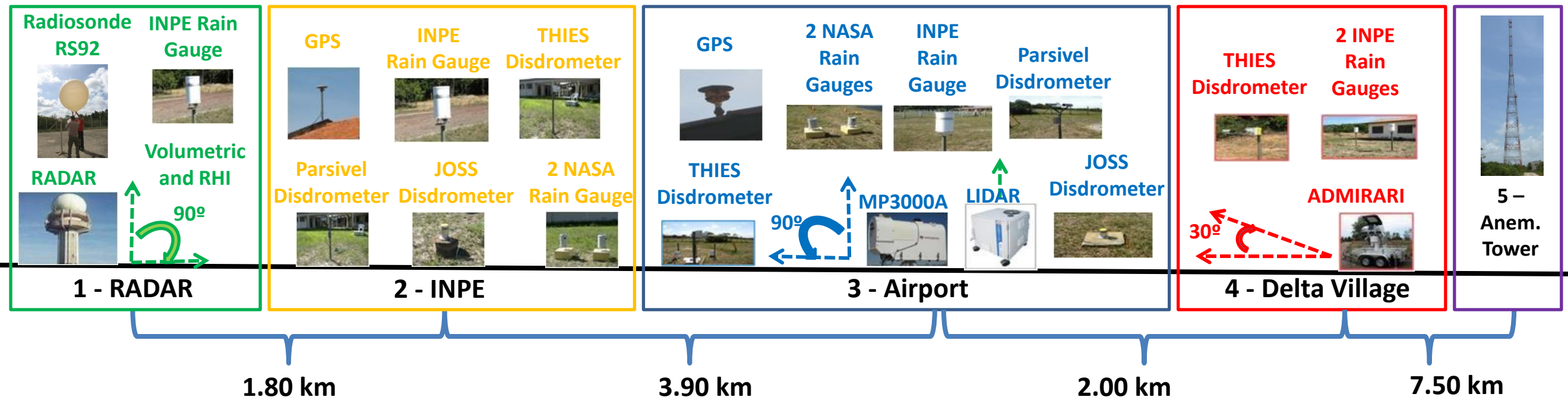
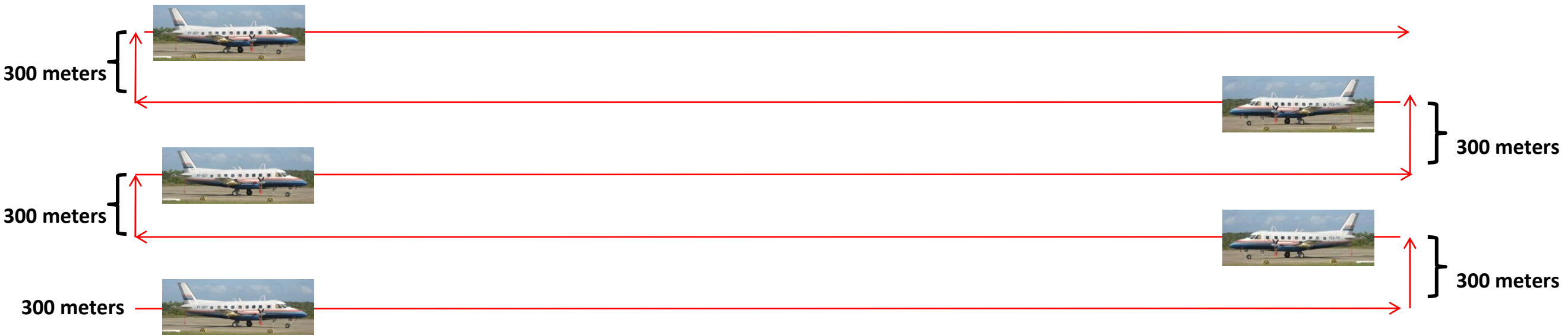
- 1 – RADAR
- 2 – INPE Facilities
- 3 – Airport
- 4 – Delta Village
- 5 – Anemometric Tower
- 6 – UEMA
- 7 – UECE Airplane
- Main Line of Measurements

Distances Sites (km) and Geolocation

SITES / DISTANCES	1 – Radar	2 – INPE	3 – Airport	4 - Delta Village	5 - Anemometric Tower	6 – UEMA
1 – RADAR	-	1.90	5.75	7.60	5.83	37.30
2 – INPE	1.90	-	4.35	5.89	4.68	35.50
3 - Airport	5.75	4.35	-	2.43	7.48	31.80
4 - Delta Village	7.60	5.89	2.43	-	7.54	29.70
5 - Anemometric Tower	5.83	4.68	7.48	7.54	-	35.10
6 – UEMA	37.30	35.50	31.80	29.70	35.10	-

Sites / Geolocation	Latitude	Longitude	Height
1 – RADAR	-02° 20' 04.9"	-44° 25' 13.1"	45 m
2 – INPE	-02° 20' 20.9"	-44° 24' 16.2"	49 m
3 - Airport	-02° 22' 40.8"	-44° 23' 59.8"	45 m
4 - Delta Village	-02° 23' 08.8"	-44° 22' 46.3"	34 m
5 - Anemometric Tower	-02° 19' 08.7"	-44° 22' 03.3"	48 m
6 - UEMA	-02° 35' 35.7"	-44° 10' 43.1"	65 m

Measurement Scheme for the Main line



Instrumentation – (1) RADAR Facilities site

X Band dual polarization
Meteorological Radar



Radiosonde RS92



Meteorological
Wheater Station

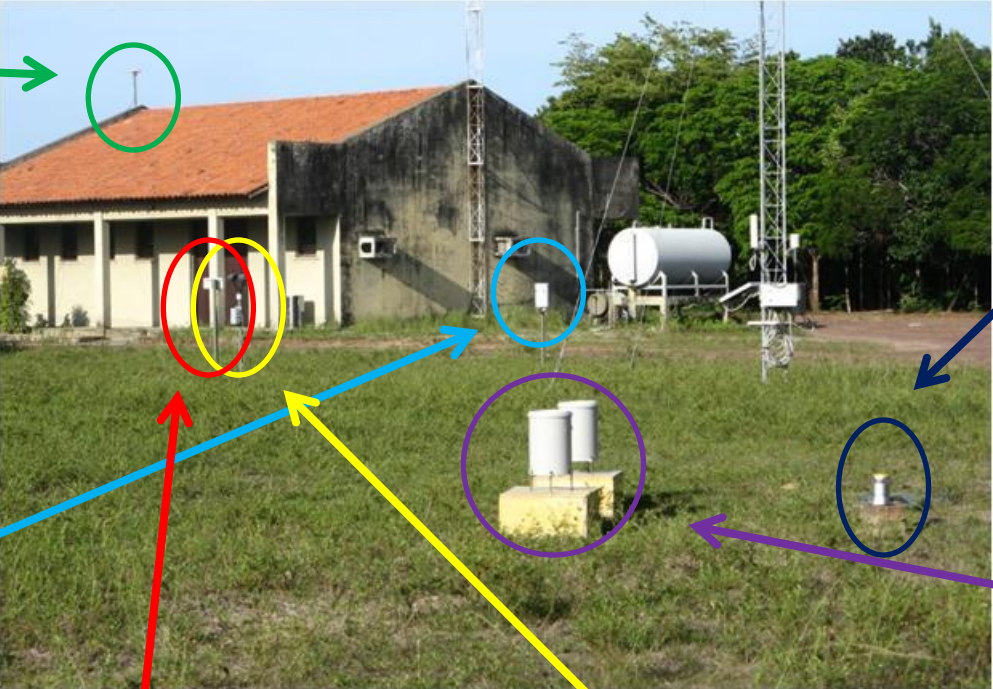


INPE Rain Gauge



Instrumentation – (2) INPE Facilities site

GPS



JOSS
Disdrometer



INPE Rain Gauge



2 NASA
Rain Gauges



THIES
Disdrometer



Parsivel
Disdrometer



Instrumentation – (3) Airport Site

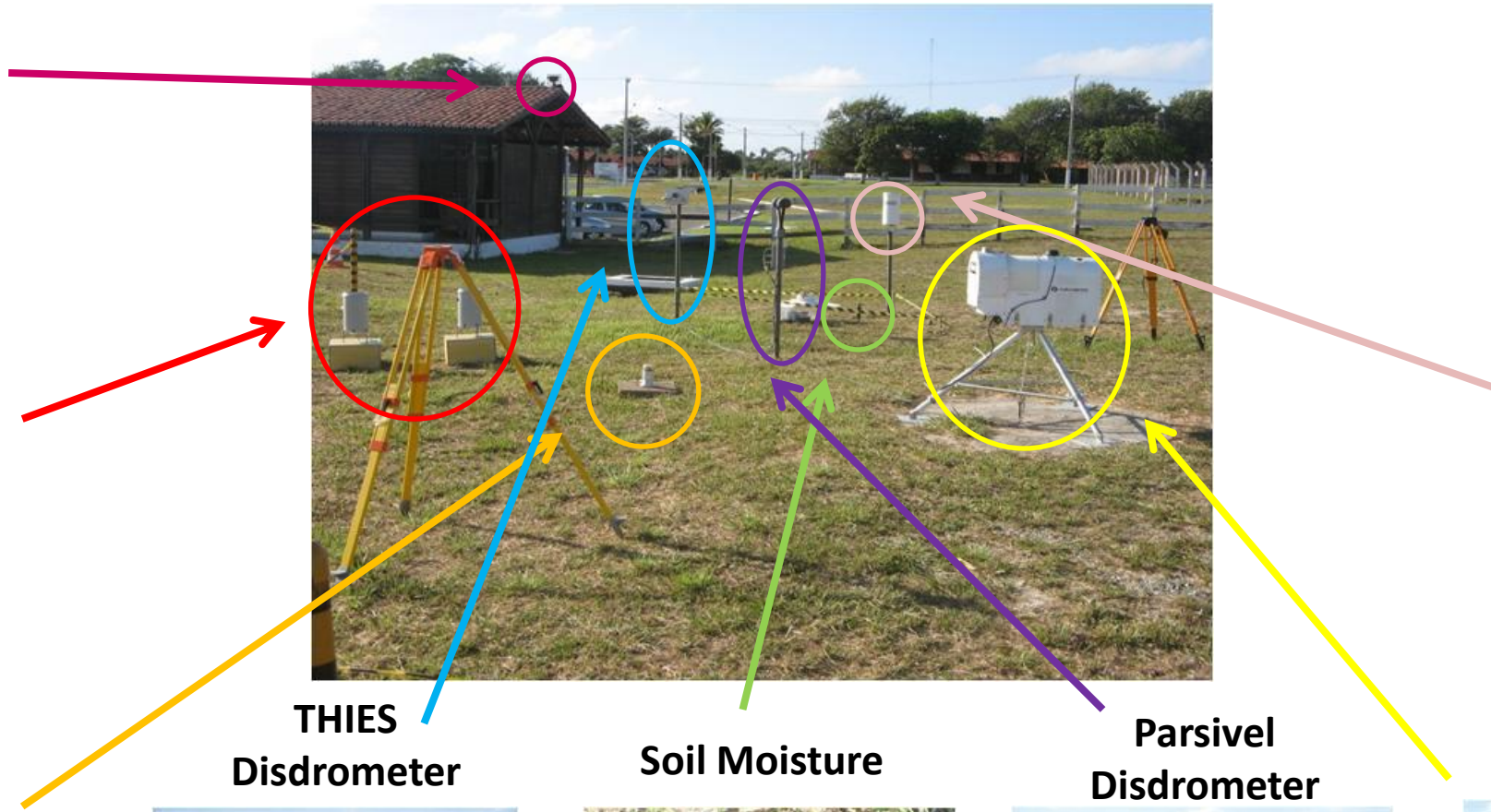
GPS



2 NASA Rain Gauges



JOSS Disdrometer



532nm LIDAR system



INPE Rain Gauge



MP3000A Radiometer



THIES Disdrometer



Soil Moisture



Parsivel Disdrometer



Instrumentation – (4) Delta Village Site

ADMIRARI



**THIES
Disdrometer**



**2 INPE
Rain Gauges**

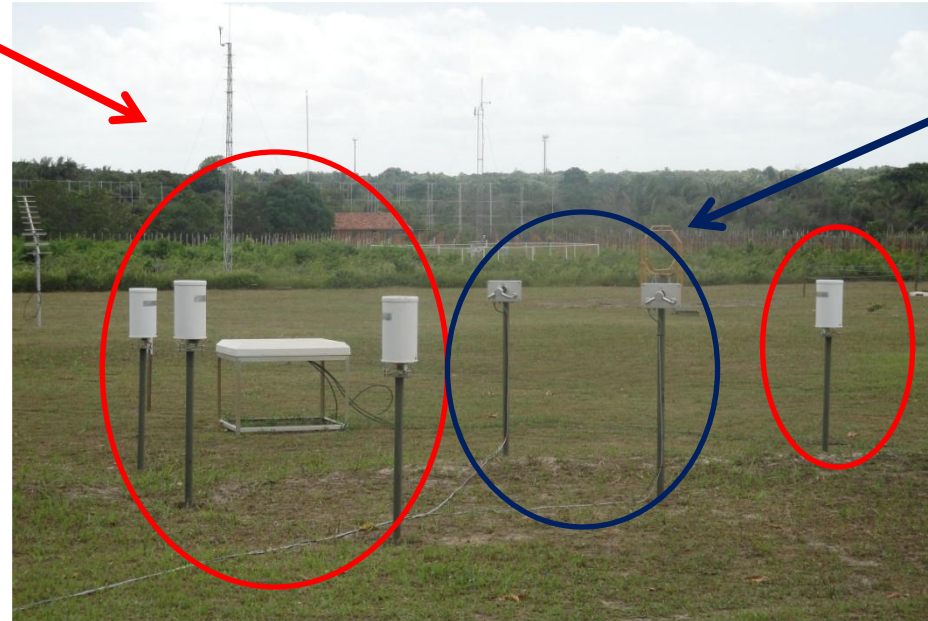


Instrumentation – (5) Anemometric Tower



Instrumentation – (6) UEMA Site

**4 INPE
Rain Gauges**



**2 THIES
Disdrometer**



Instrumentation – (7) UECE Airplane

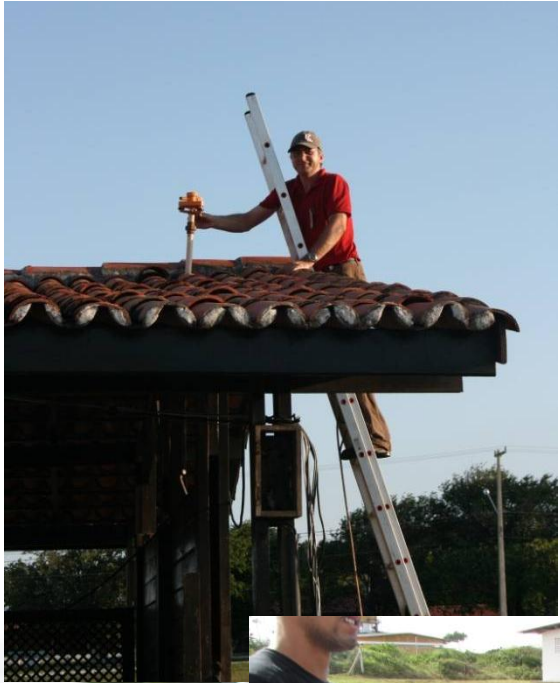
**OAP200X -
Hydrometeors
30-450um**



**FSSP – Raindrops
Distribution
2-47um**



Equipments Installation





Mascot

