
Characterizing Global Precipitation Patterns Using Results from CloudSat

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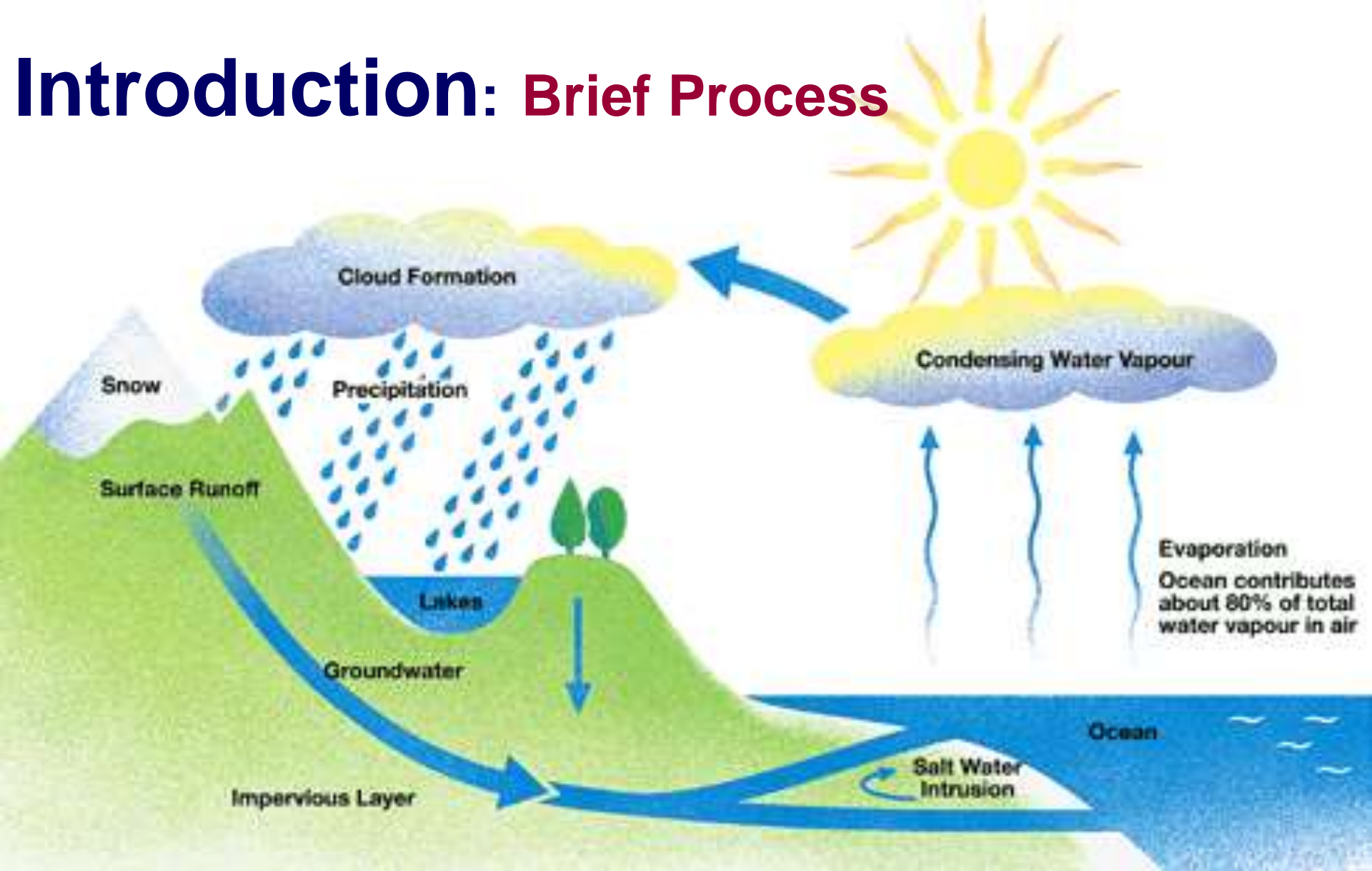
Content

- Introduction to Precipitation
- Design Philosophy
- Preliminary Results
- Future Research

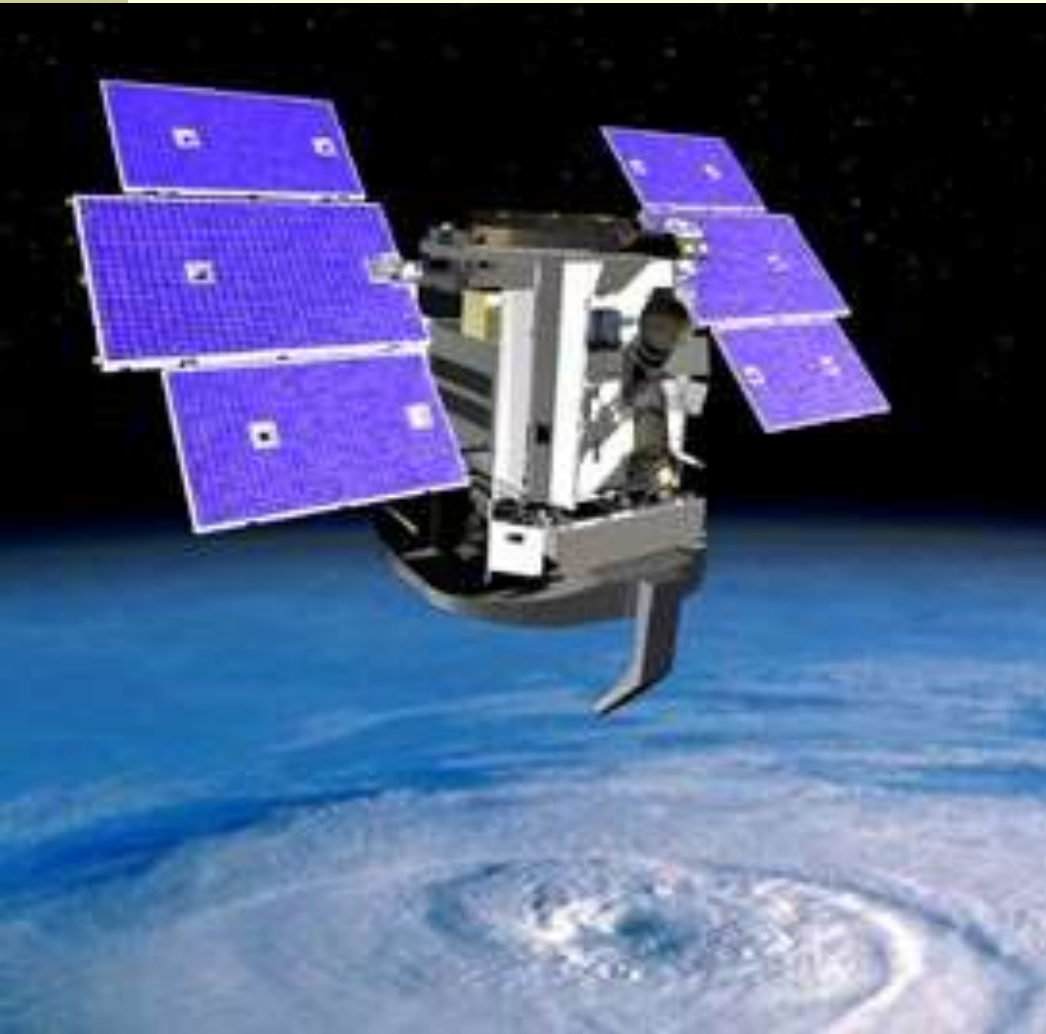
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Introduction: Brief Process



Source: <http://www.sawater.com.au/SAWater/Education/OurWaterSystems/The+Water+Cycle.htm>, revised by Jianbo Liu



CloudSat

Launched: April, 2006

Altitude: 705 km

Period: 16 days

Coverage: 82 N and 82 S

Cloud Profiling Radar (CPR)

Frequency: 94 GHz ~ 3 mm

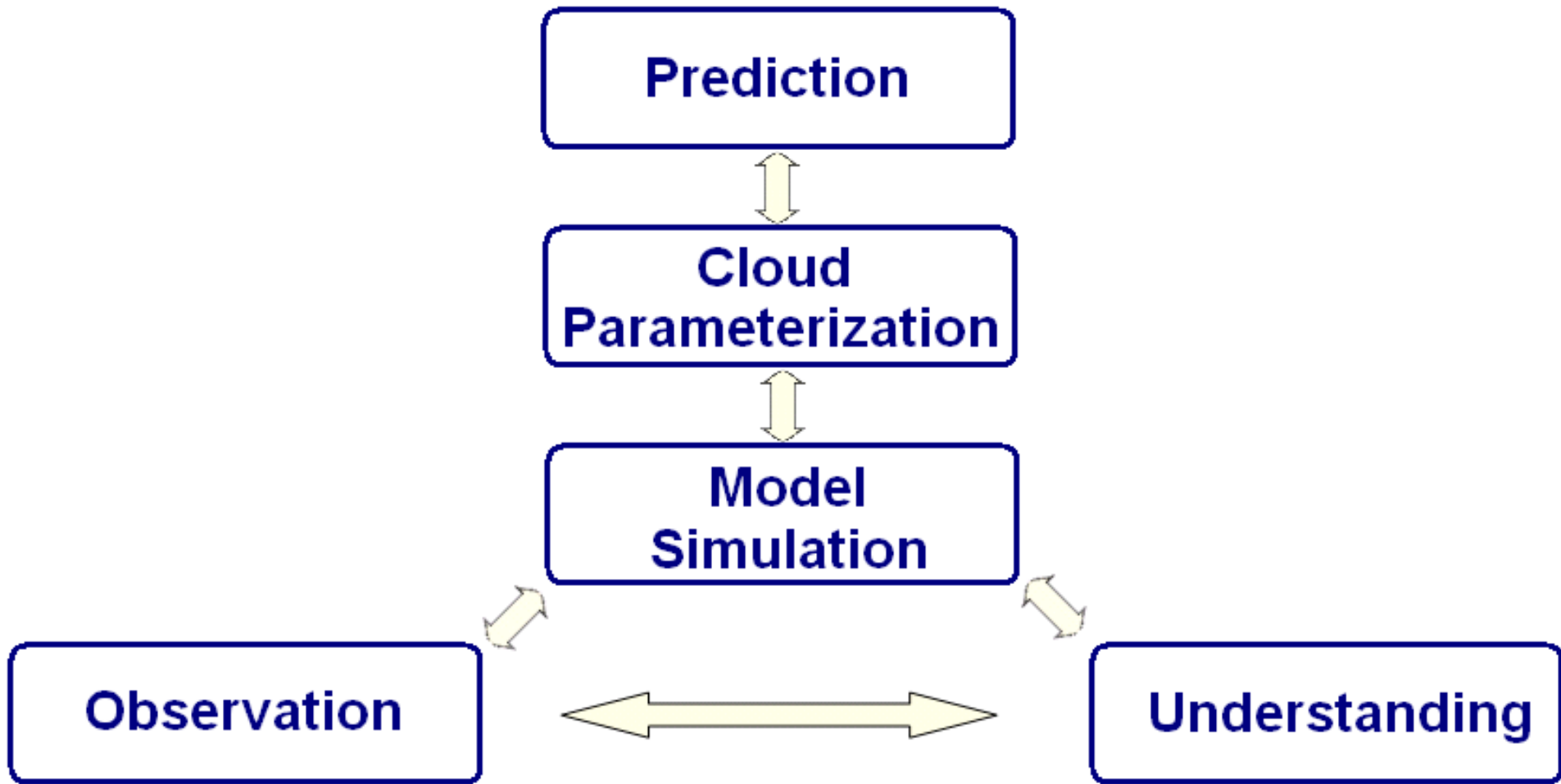
Layer Interval: 485m

Resolution: -30dBz

Source:<http://cloudsat.atmos.colostate.edu/images/cloudsat.jpg>, revised by Jianbo Liu

Content

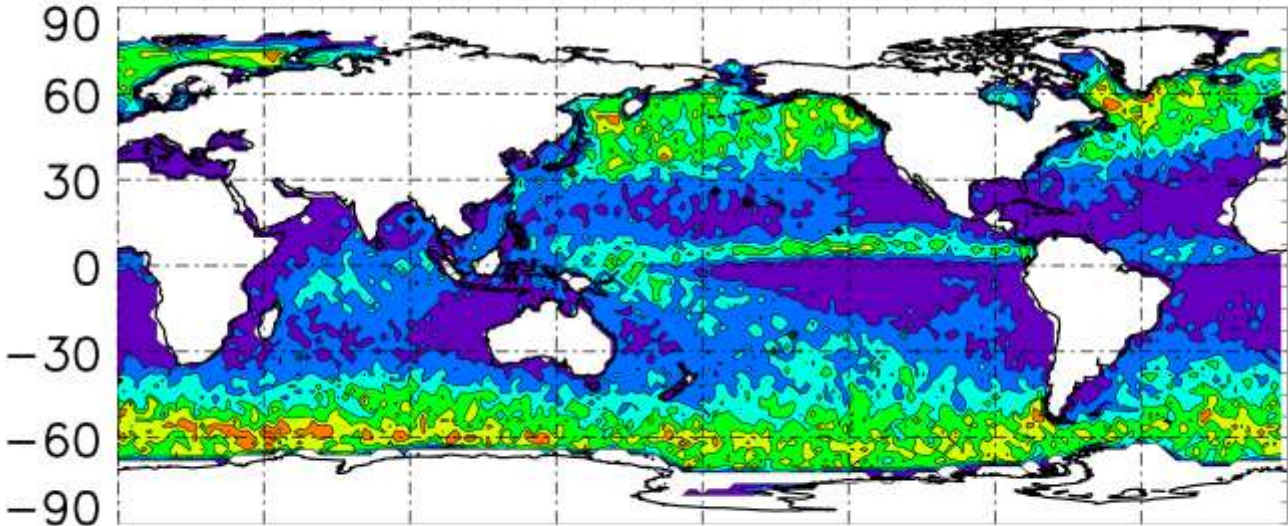
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(Zhen Wang, 2011)

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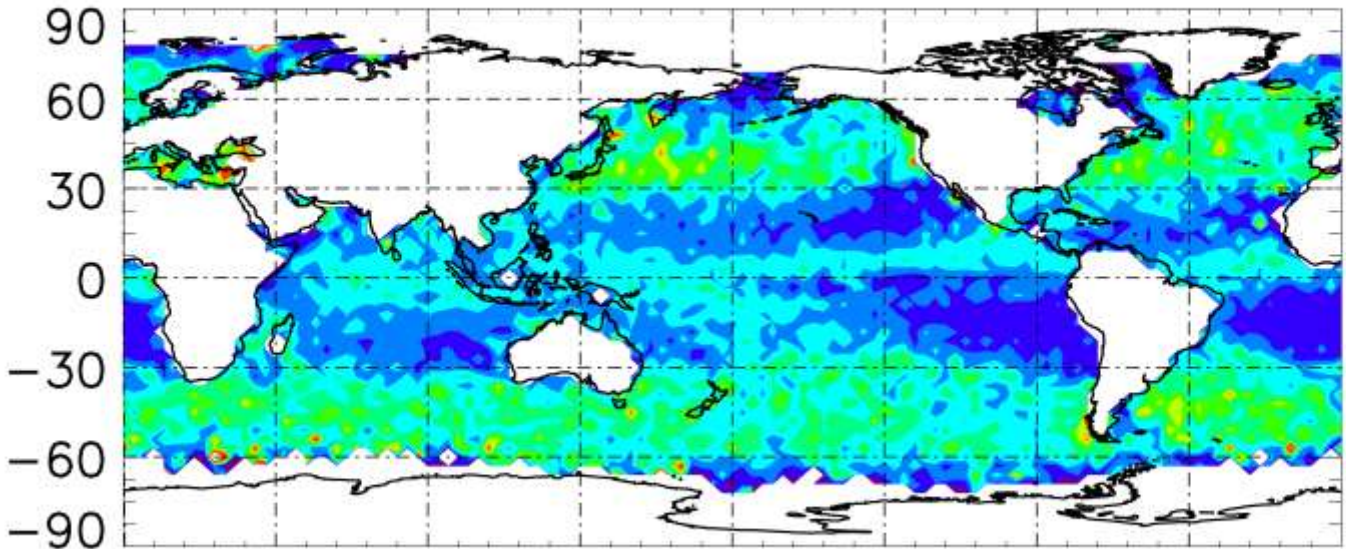
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Frequency

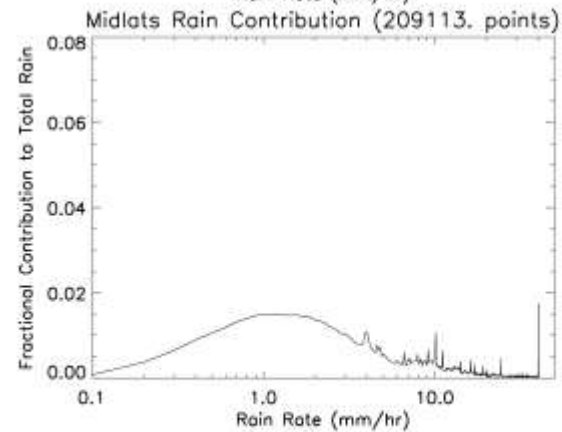
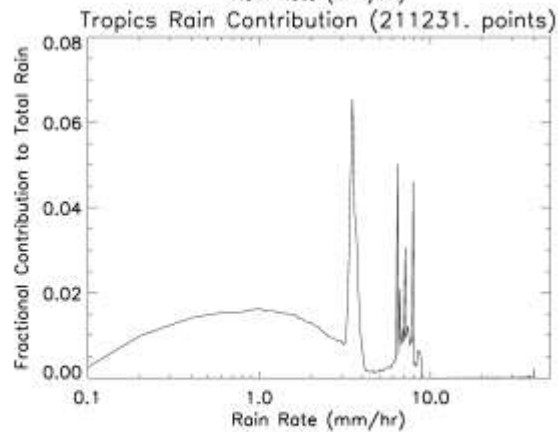
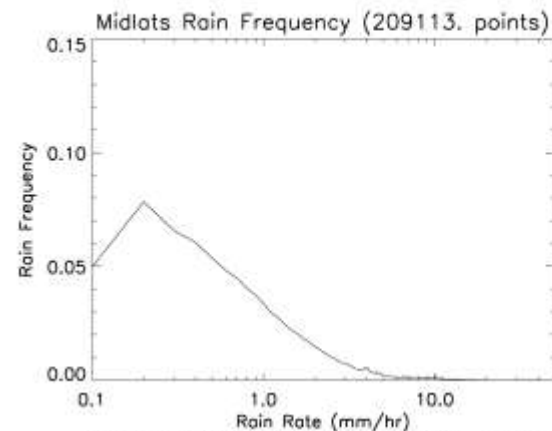
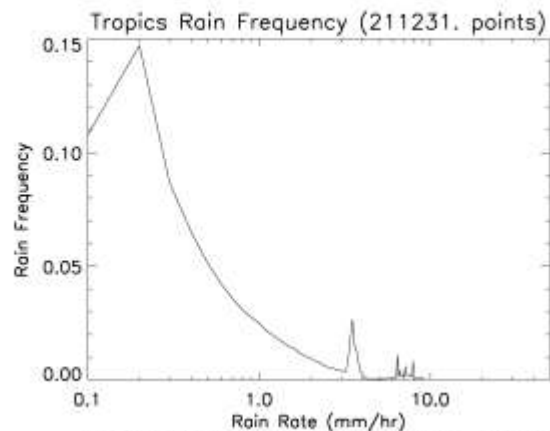
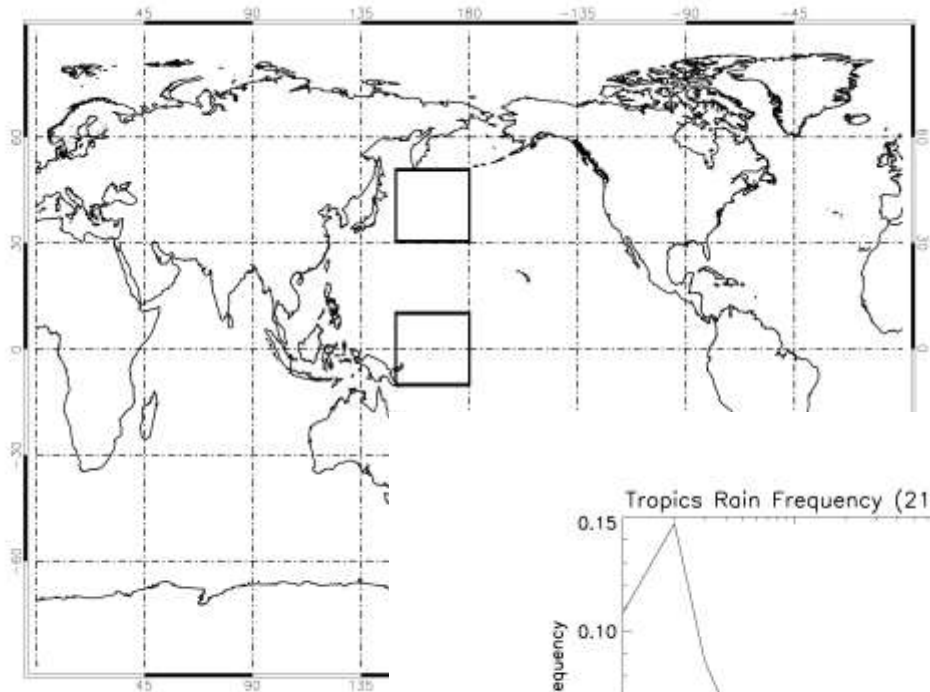


mm/hr

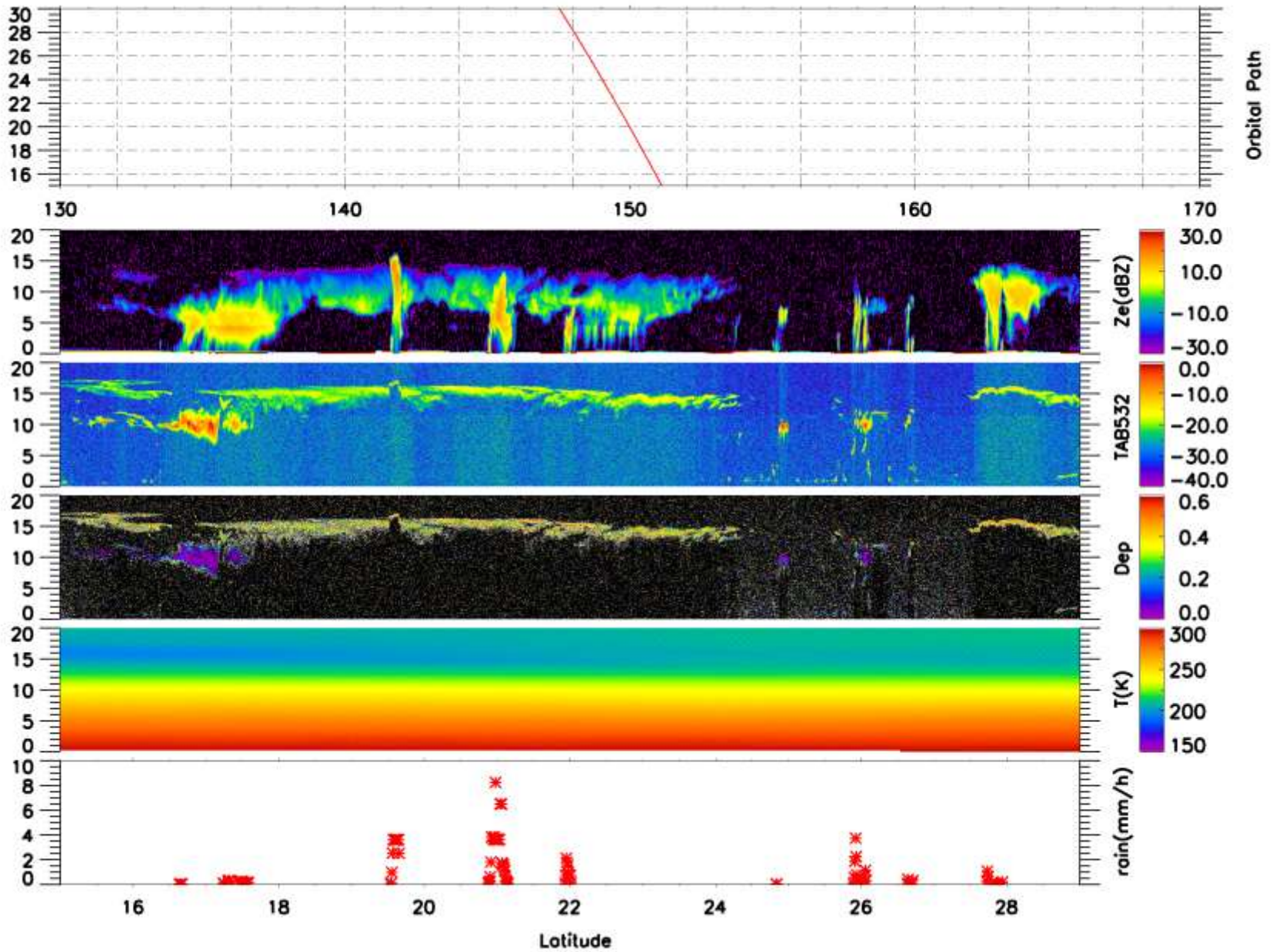


Intensity

0 90 180 270 360



2006213023611_01380



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- Other precipitation properties
 - Observations from other sources
 - Data from multiple years

References

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Thank You

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