Future Fengyun Observing System

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## Tentative Schedule for Future FY Series

<table>
<thead>
<tr>
<th>Schedule</th>
<th>GEO.</th>
<th>LEO.</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>FY-2</td>
<td>FY-3</td>
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<td>Operational</td>
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<td>2013</td>
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<td>Operational (A.M. Orbit)</td>
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<tr>
<td>2014</td>
<td>Operational</td>
<td>Operational (P.M. Orbit)</td>
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<td>2015</td>
<td>Operational</td>
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<tr>
<td>2016</td>
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<td>2017</td>
<td>Operational (Optical SAT)</td>
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<td>2018</td>
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<td>Operational (P.M. Orbit)</td>
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<td>2019</td>
<td>Operational (Optical SAT)</td>
<td>Operational (Rain Fall Massion)</td>
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<td>2020</td>
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<td>Operational (A.M. Orbit)</td>
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Early Morning Orbit Satellite

• Morning Orbit: 10:30 PM
• Afternoon Orbit: 13:30

Current Polar Orbit Satellite
Orbit Option: FY-3 Early Morning + NPP + Metop

Recognizing that global even distribution of sounding data is of great significance for the 6 hour NWP assimilation window, one approach is to constitute a three orbital fleet including Metop (Mid. Morning) + NPP (Afternoon) + FY-3 (Early Morning).
The main objectives of RM satellite

- Consist a Global observation constellation system with FY3-2 AM and PM satellites, as well as GPM satellite
- Improve the severe convective system monitoring ability in China together with GPM satellite
- Provide 3D precipitation structure over both ocean and land
- Improve the sensitivity and accuracy of precipitation measurement over China and surrounding area
FY-4A

Main Instruments

1) GIIRS: Geo. Interferometric Infrared Sounder
2) AGRI: Advanced Geosynchronous Radiation Imager
3) LMI: Lightning Mapping Imager
4) SEP: Space Environment Package

Spacecraft:

1. Launch Weight: approx 5300kg
2. Stabilization: Three-axis
3. Attitude accuracy: 3"
4. Bus: 1553B+Spacewire
5. Raw data transmission: X band
6. Output power: >= 3200W
On-orbit Polar Satellites

- FY-3A: 40 min. behind Metop A in the similar orbit
- FY-3B: 20 min. ahead NOAA 18 in the similar orbit
- Better temporal and spatial coverage from NOAA, Metop, FY-3 virtual constellation