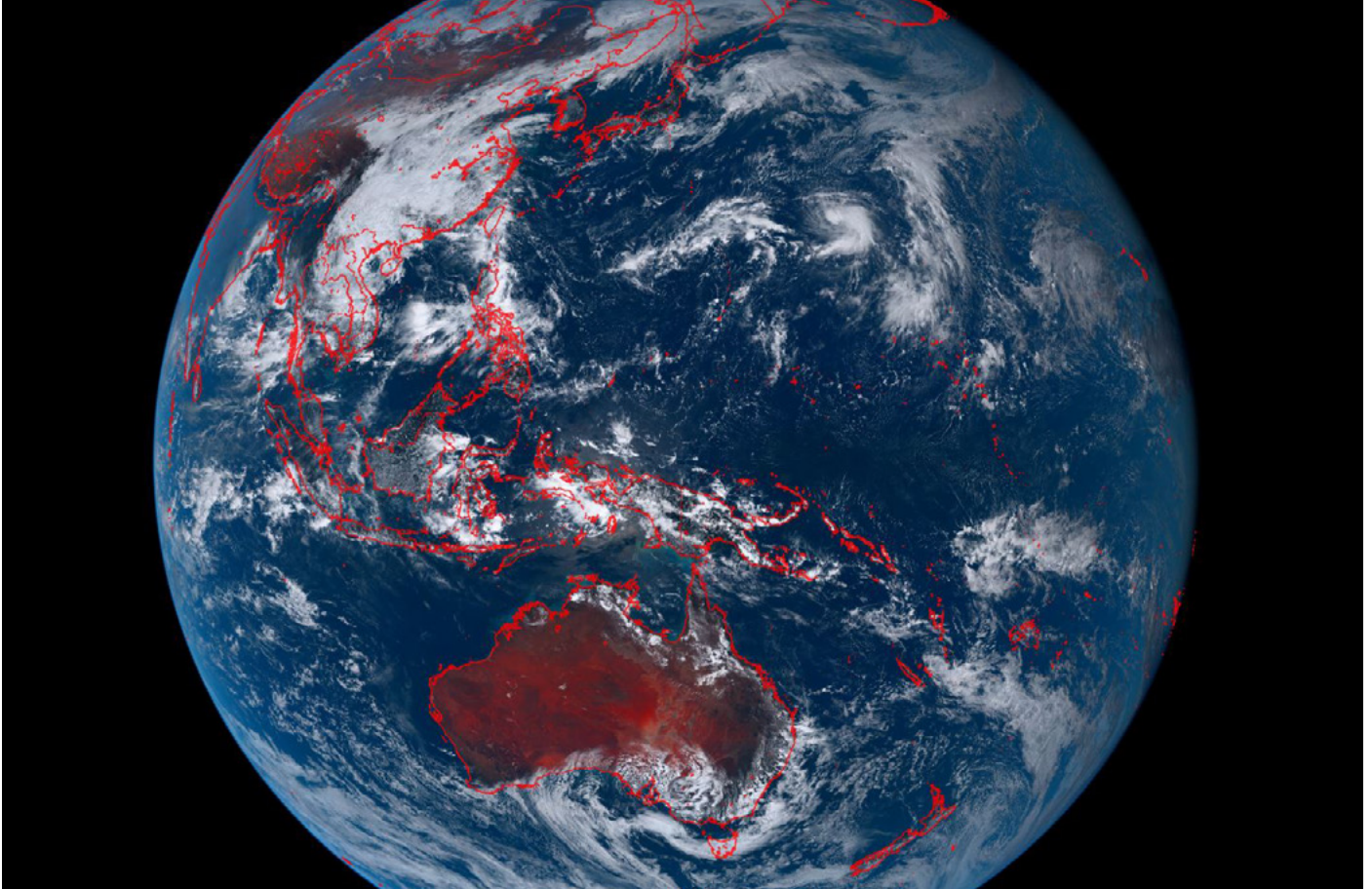


# IMS4 Satellite Weather Data

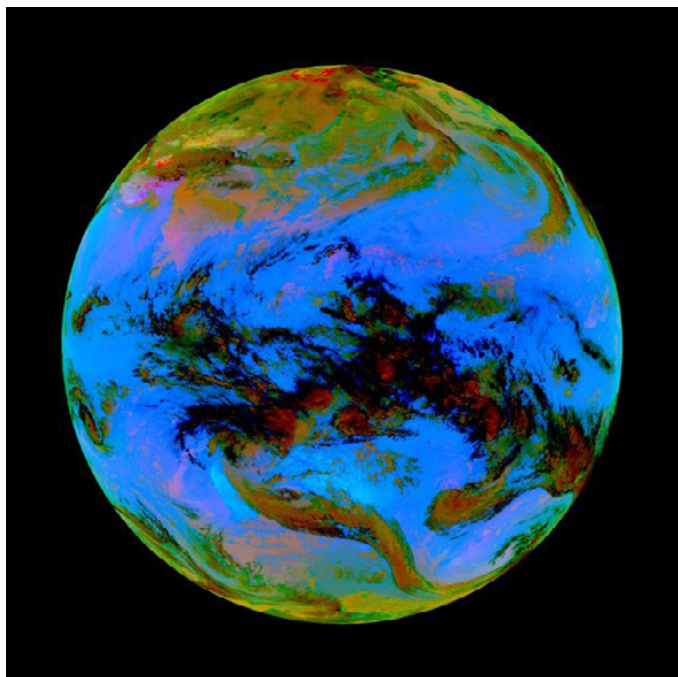
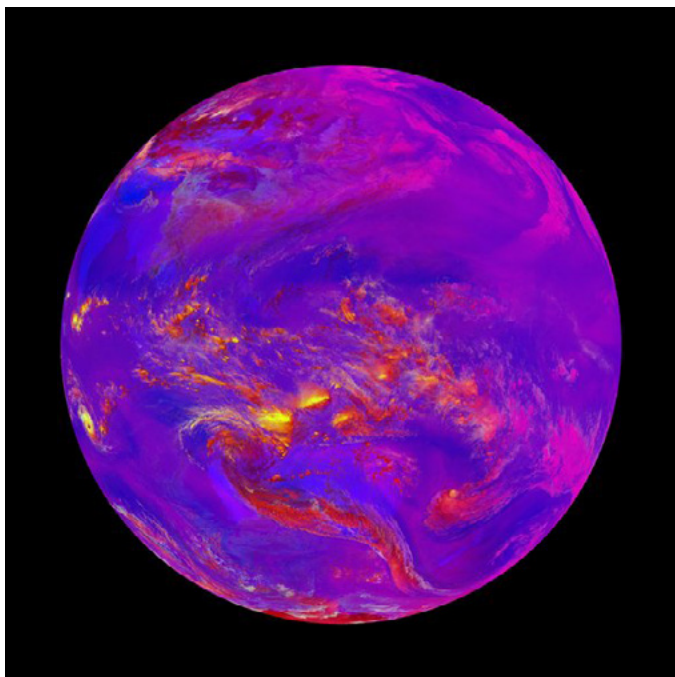
*COMS-1, EUMETSAT, HIMAWARI*

**IMS4 Satellite Weather Data is a software package addressing the needs for the high resolution satellite imagery, animations and products necessary for the monitoring, weather analysis, nowcast and forecast of the cloud masses, storm systems, tropical cyclones.**



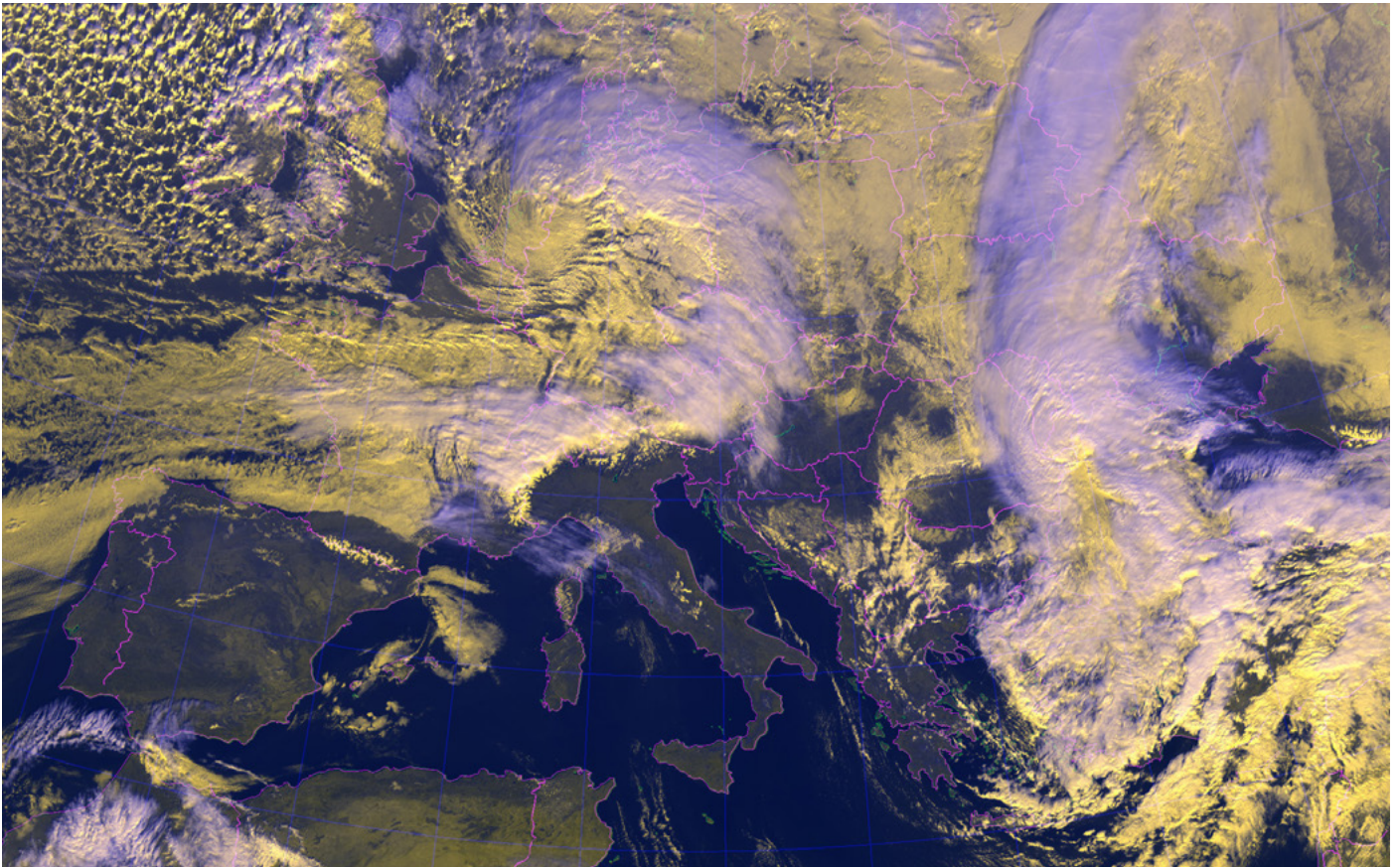
## Functionality

- Multi-channel reception of high frequency (up to 5 minutes), high resolution imagery
- Preview of the current / historical images, animations
- Image export to GIF, GeoTiff, PNG, JPG, PDF, etc.
- Data redistribution and export:
  - local storage, FTP, SCP, sFTP
  - WMO/GTS standard protocols
  - e-mail
- Integration with other IMS4 products:
  - IMS4 Maps - satellite data products via OGC Web
  - Map Service
  - IMS4 WeatherStudio
- Embedded application / web server
- Multi-language support

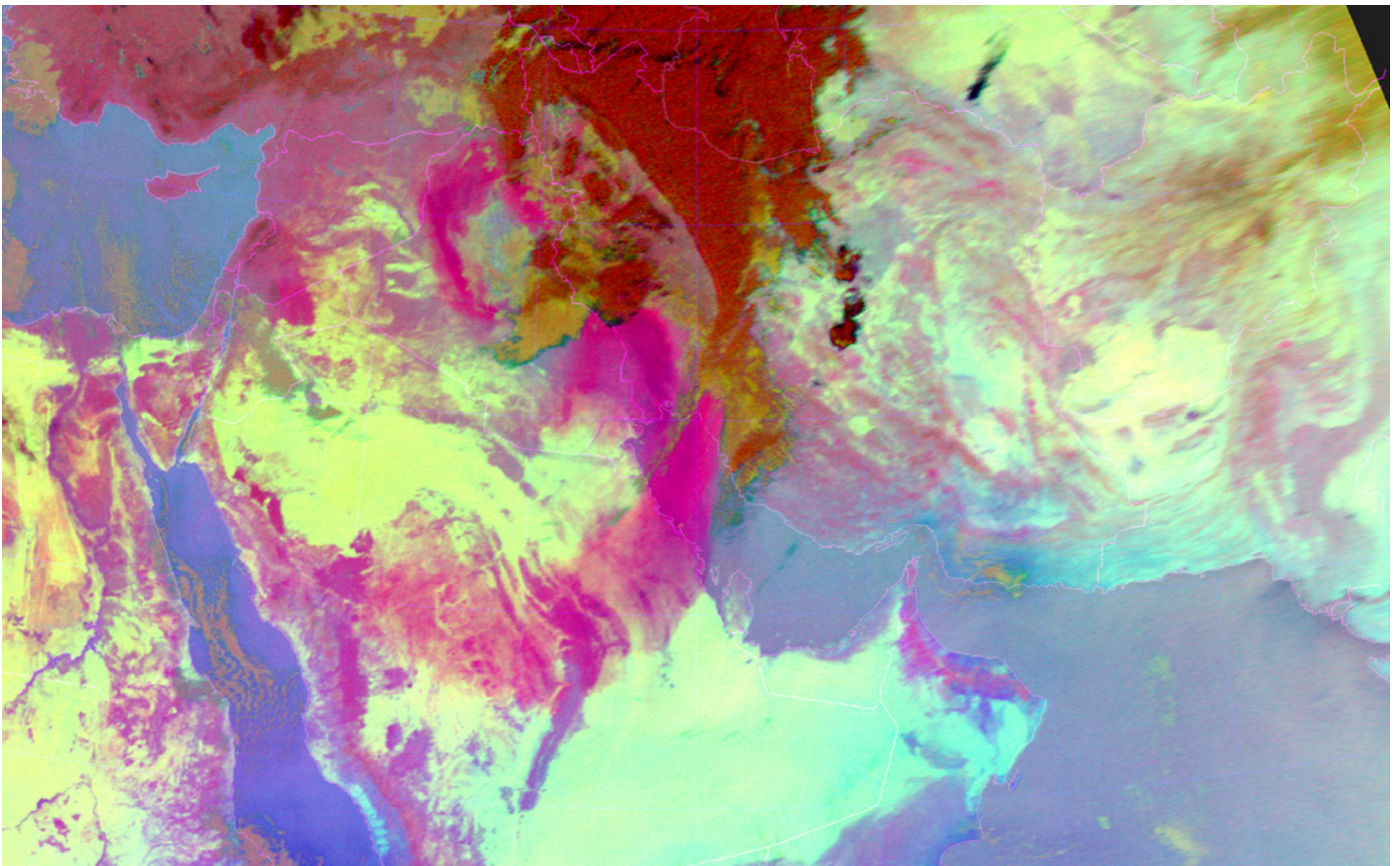


Situation on 30.01.2018 over whole hemisphere on HIMAWARI Day Convective Storms RGB composite and Dust RGB composite

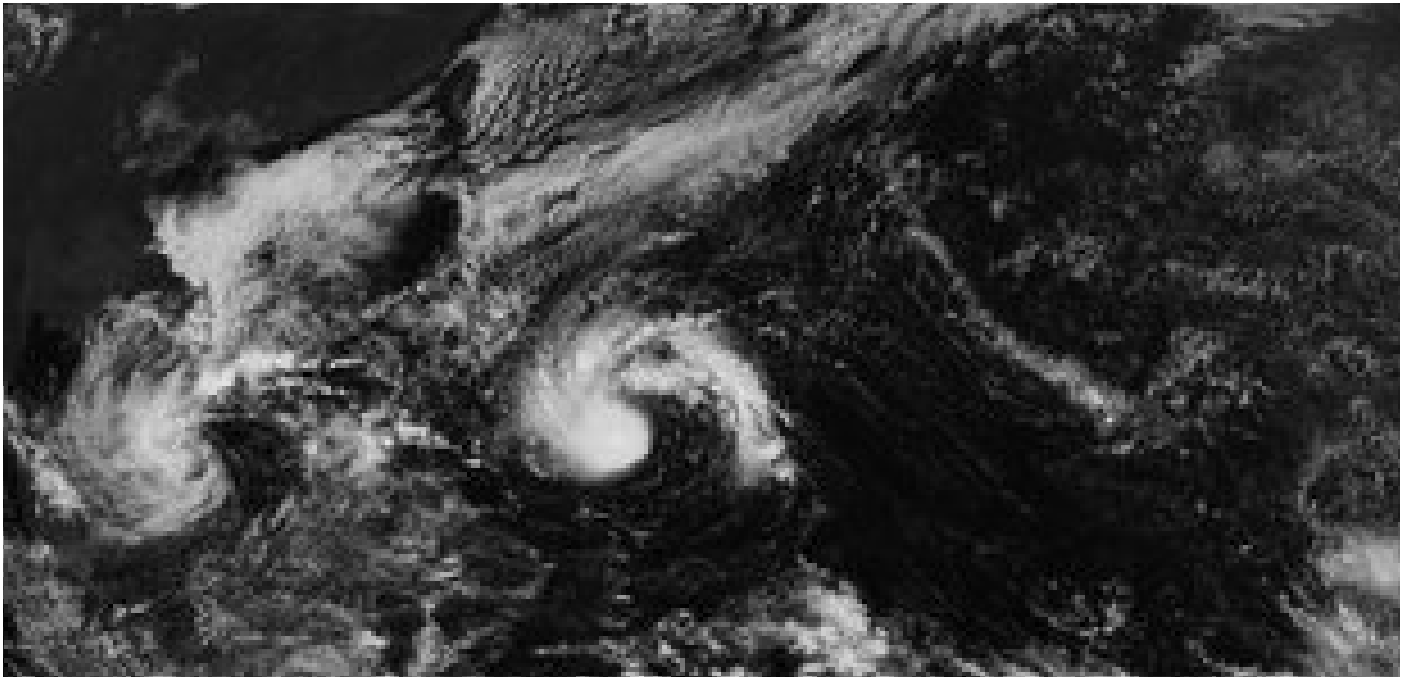
	<b>EUMETSAT</b>	<b>COMS-1</b>	<b>HIMAWARI</b>
<b>Single channel grayscale products</b>	<ul style="list-style-type: none"> <li>• VIS0.6</li> <li>• VIS0.8</li> <li>• NIR1.6</li> <li>• IR3.9</li> <li>• WV6.2</li> <li>• WV7.3</li> <li>• IR8.7</li> <li>• IR9.7</li> <li>• IR10.8</li> <li>• IR12.0</li> <li>• IR13.4</li> <li>• HRV</li> </ul>	<ul style="list-style-type: none"> <li>• VIS: 0.675 μm</li> <li>• SWIR: 3.75 μm</li> <li>• WV: 6.75 μm</li> <li>• IR1: 10.8 μm</li> <li>• IR2: 12 μm</li> </ul>	<ul style="list-style-type: none"> <li>• VIS (B03): 0.64 μm</li> <li>• B04: 0.86 μm</li> <li>• B05: 1.6 μm</li> <li>• B06 2.3 μm</li> <li>• IR4 (B07): 3.9 μm</li> <li>• IR3 (B08): 6.2 μm</li> <li>• B09: 6.9 μm</li> <li>• B10: 7.3 μm</li> <li>• B11: 8.6 μm</li> <li>• B12: 9.6 μm</li> <li>• IR1 (B13): 10.4 μm</li> <li>• B14: 11.2 μm</li> <li>• IR2 (B15): 12.4 μm</li> <li>• B16: 13.3 μm</li> </ul>
<b>RGB composite imagery</b>	<ul style="list-style-type: none"> <li>• Day Natural Colours</li> <li>• Day Microphysical</li> <li>• Day Solar</li> <li>• Convective Storms</li> <li>• Night Microphysical</li> <li>• Dust</li> <li>• Airmass</li> <li>• HRV Clouds</li> <li>• HRV Fog</li> <li>• HRV Severe Storms</li> </ul>		<ul style="list-style-type: none"> <li>• Natural Colours</li> <li>• Ash</li> <li>• Night Microphysics</li> <li>• Day Convective Storms</li> <li>• Dust</li> <li>• Airmass</li> </ul>



*Cyclone Friederike on 18.01.2018 over Europe on EUMETSAT VIS-IR RGB composite.*



*Sandstorm on 12.01.2018 over Middle East on EUMETSAT 24-hour Microphysical RGB composite (the purple areas represent the sand cloud)*



*Typhoon Vinta on 21.12.2017 over pacific on COMS-1 VIS:0.675 single channel grayscale product*

