GLOBAL MOSAIC

 Automatically integrate multiple geostationary satellite images to create a global composite
Large scale weather systems have no boundaries.
EEC’s Global Mosaic imagery displays the global nature of storms and cloud systems with a complete and up-to-date visual of weather patterns, automatically composited from multiple image sources.

Combining many images into one world-wide image

Geostationary satellite data is available from a number of sources on the internet and via direct broadcast groundstations. But, the data is in different formats and different resolutions, and access requirements vary widely from one supplier to another. Our Global Mosaic software automatically ingests data from these various locations and re-formats them to a common format.

The images are seamlessly joined to produce an integrated, composite image. Different resolutions and color shadings are adjusted to create a single, consistent image.

The image is updated automatically, producing an animated, constantly changing view of the weather systems on the entire earth.
Data is integrated from multiple sources and sent to multiple destinations.

**APPLICATIONS**

- Earth-wide meteorological research
- Airport hubs - show international routes across satellite boundaries
- Typhoon and storm tracking - follow severe weather over long distances
- Integration of national weather forecasts
- Large scale climate modeling

Multiple input and output data formats are processed. Data can be automatically sent to many destinations:

- TV stations
- Multimedia displays
- Public weather forecasts
- Large scale public displays
- Weather forecasting backdrops
- Websites
- Multiple output formats - JPEG, KLM, GeoTIFF
Global Mosaic Configuration

Intuitive and quick setup:
- Allows multiple satellites to be easily selected
- Configure for different applications and locations
- Can be updated to include new satellites

### EXAMPLE SATELLITE CONFIGURATION

<table>
<thead>
<tr>
<th>Satellite</th>
<th>Update rate</th>
<th>Northern Hemisphere</th>
<th>Full disk</th>
<th>Resolution</th>
<th>Data/Image (MB)</th>
</tr>
</thead>
</table>
| Himawari-8 | 2 FD/h | ✔️ | ✔️ | IR 2km  
VIS 1km | 140/FD |
| COMS | 1 FD/3h  
4 ENH/h | ✔️ | ✔️ | ✔️ | IR 4km  
VIS 1km | 140/FD  
80/ENH |
| FY2D | 1 FD/h  
1 NH/h | ✔️ | ✔️ | ✔️ | IR 5km  
VIS 1.25km | 120/FD  
65/NH |
| FY2E | 1 FD/h  
1 NH/h | ✔️ | ✔️ | ✔️ | IR 5km  
VIS 1.25km | 120/FD  
65/NH |
| MSG-1 | 2 FD/h | ✔️ | ✔️ | ✔️ | IR 5km  
VIS 2.5km | LRIT: 15/FD  
HRIT: 30/FD |
| MSG-3 | 4 FD/h | ✔️ | ✔️ | ✔️ | 1 high-resolution  
broad-bandwith  
VIS: 1km  
Others: 3km | LRIT(5ch): 5/FD  
HRIT (all ch): 110/FD |
| GOES-E | 1 FD/3h  
2 NH/h | ✔️ | ✔️ | ✔️ | IR 4km  
VIS 1km | 200/FD  
120/NH |
| GOES-W | 1 FD/3h  
2 NH/h | ✔️ | ✔️ | ✔️ | IR 4km  
VIS 1km | 200/FD  
120/NH |

FD = Full Disk  
ENH = Enhanced Northern Hemisphere  
NH = Northern Hemisphere

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Enterprise Electronics Corporation  
128 S. Industrial Blvd., Enterprise, AL 36330, USA  
p: +1 334.347.3478  |  f: +1 334.393.4556  
sales@eecweathertech.com

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