TELESPACE®
Satellite Ground Stations From EEC

GLOBAL MOSAIC

Automatically integrate multiple geostationary satellite images to create a global composite

REMOTE SENSING

Large scale weather systems have no boundaries.

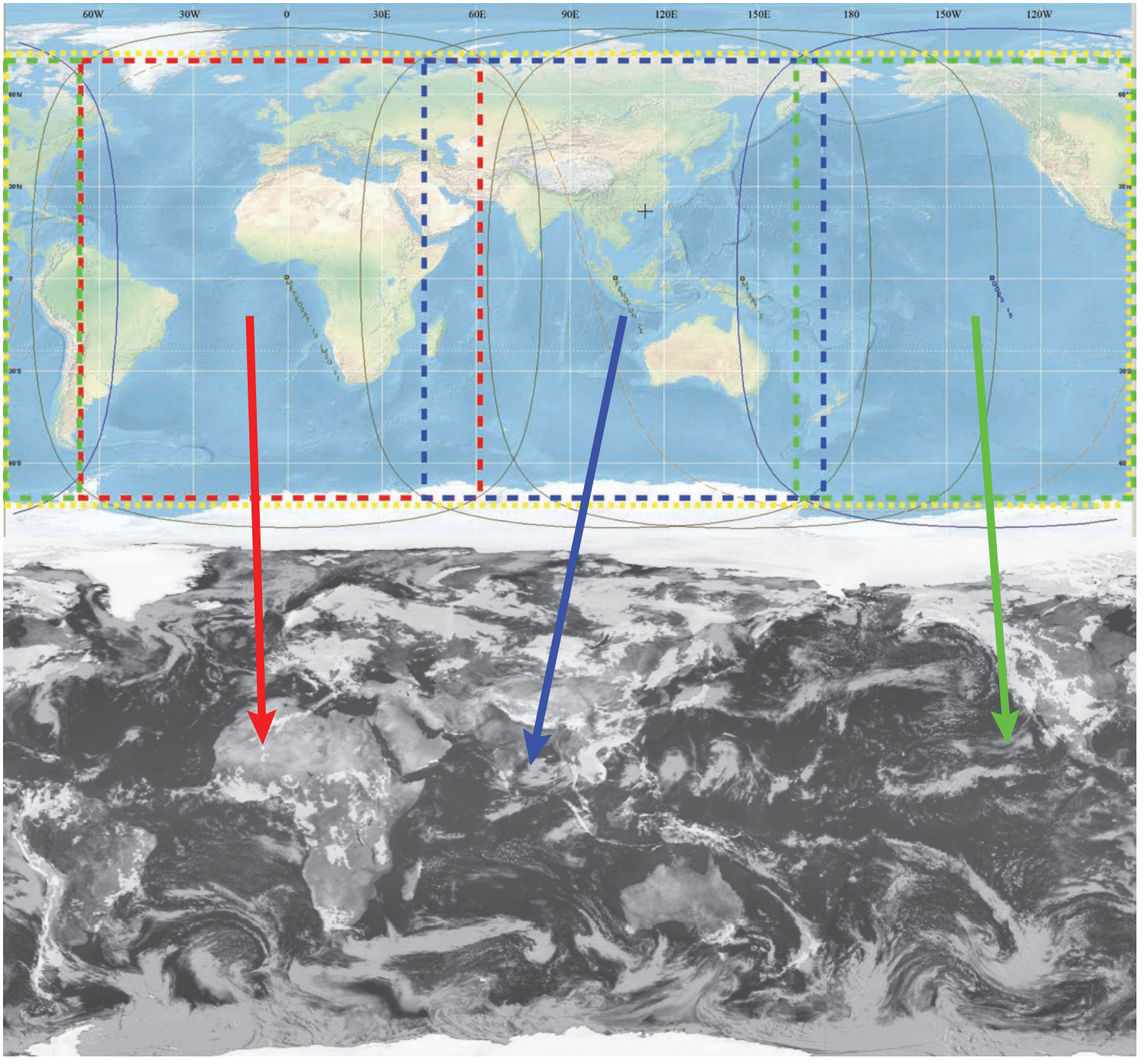
EEC's Global Mosaic imagery displays the global nature of storms and cloud systems with a complete and up-to-date visual of weather patterns, automatically composited from multiple image sources.

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.

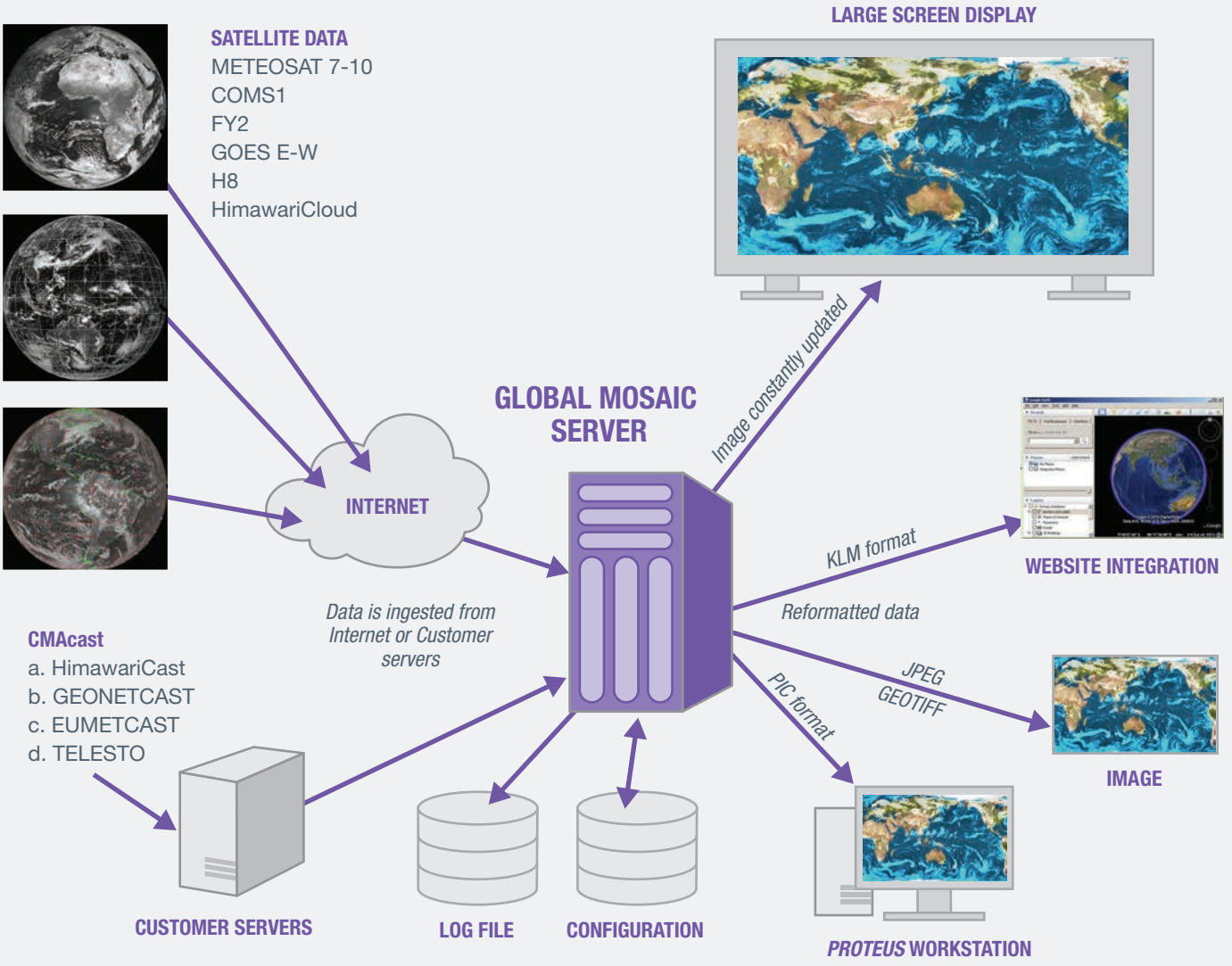
The images are seamlessly joined to produce an integrated, composite image. Different resolutions and color shadings are adjusted to create a single, consistent image.

The image is updated automatically, producing an animated, constantly changing view of the weather systems on the entire earth.



GLOBAL MOSAIC INTEGRATION AND DISSEMINATION

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

Satellite	Update rate	Northern Hemisphere	Full disk	Resolution	Data/Image (MB)
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	1FD/h 1NH/h	✔	✔	IR 5km VIS 1.25km	120/FD 65/NH
FY2E	1 FD/h 1NH/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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SIDPOL™ Radar is patented technology, covered by U.S. Patent No. 6,859,163 B2, U.S. Patent No. 7,049,997, U.S. Patent No. 7,439,899, U.S. Patent No. 7,551,123, U.S. Patent No. 7,683,828, U.S. Patent No. 7,750,573, U.S. Patent No. 7,760,129, U.S. Patent No. 7,880,665, U.S. Patent No. 7,450,693, U.S. Patent No. 7,369,082, 13041 (OAPI Region), 009250 (Eurasia) and 009249 (Eurasia).

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