

FarEarth for SmallSats

FarEarth for SmallSats is our turnkey image pre-processing and data management software for NewSpace. Our managed cloud-based system is the easiest way to calibrate new optical sensors and rapidly roll out processing for your earth observation constellations. *FarEarth* is the essential step between the data acquisition and downstream analytics.

Commissioning

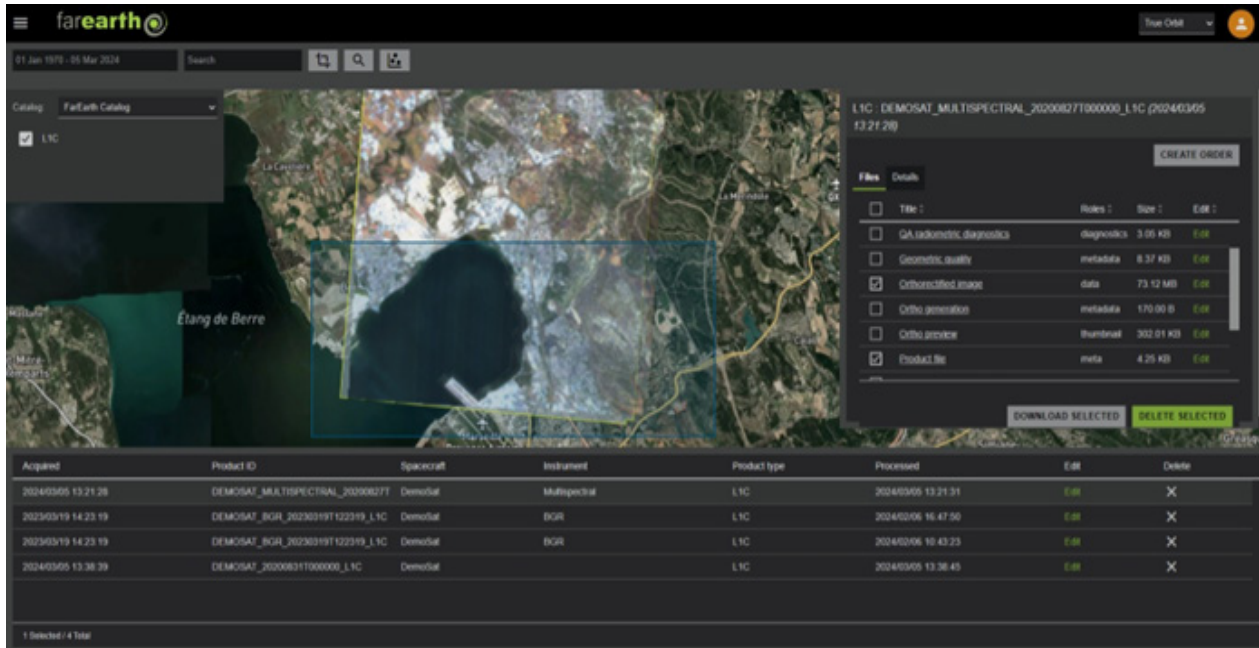
- Pre-flight radiometric calibration
- Continuous in-orbit calibration
- Sensor modelling
- Boresight alignment
- Multispectral and hyperspectral

Raw data processing

- Raw downlinked data to map-ready imagery
- Accurate band-alignment, geolocation & terrain correction
- Compensate for ADCS anomalies, temperature, integration time, TDI & jitter
- Accurate over time & across satellites
- Atmospheric corrected ARD product

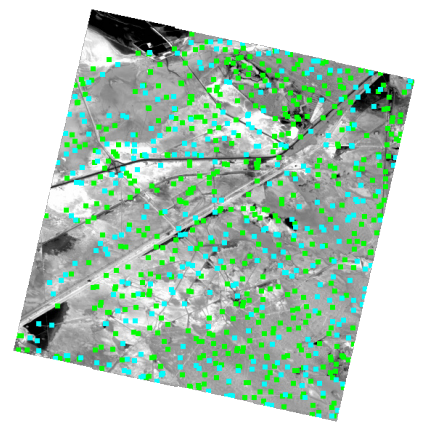
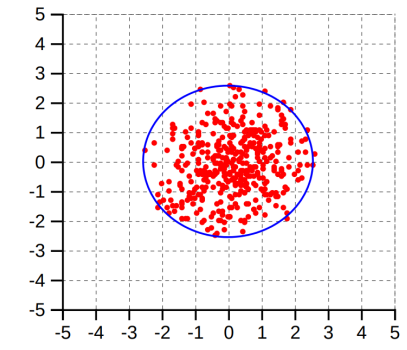
Catalogue & Archive

- Industry-standard COG format & STAC metadata
- Robust & secure archive backed by a scalable cloud Catalogue
- Product reports and quality metrics
- Flexible tiling & product packaging
- External data source connection



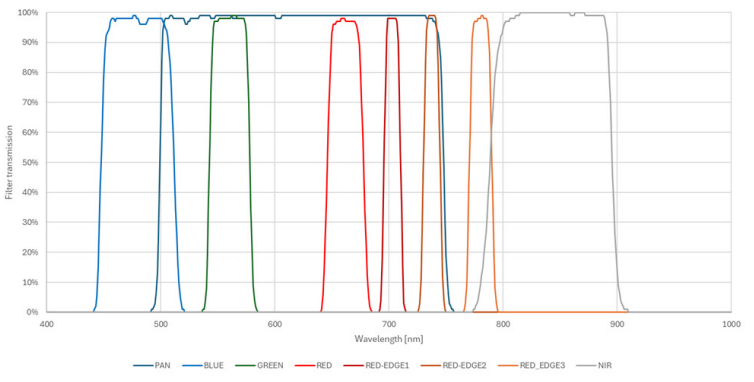
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20240305 13:38:39	DEMOSAT_202008311000000_L1C	Demosat		L1C	20240305 13:38:45	Edit	X

FarEarth workflows support downstream product generation and custom processor plugins.



BLUE to NIR1

We can also geolocate thermal and sounder sensor data.



Flexible turnkey system

- Supports multiple missions & sensors
- Massively scalable
- Flexible processing workflows
- User management, security, monitoring
- APIs for integration
- STAC compliant
- Self-hosted deployments are also possible

Pinkmatter has deep roots in the space industry. We have decades of experience developing large ground segments for space agencies and remote sensing analytics applications globally. With *FarEarth for SmallSats*, we bring our expertise to NewSpace. We have worked with various sensor manufacturers and satellite integrators through all mission phases.