



Dual view retrieval during UAE²

Summer 2004

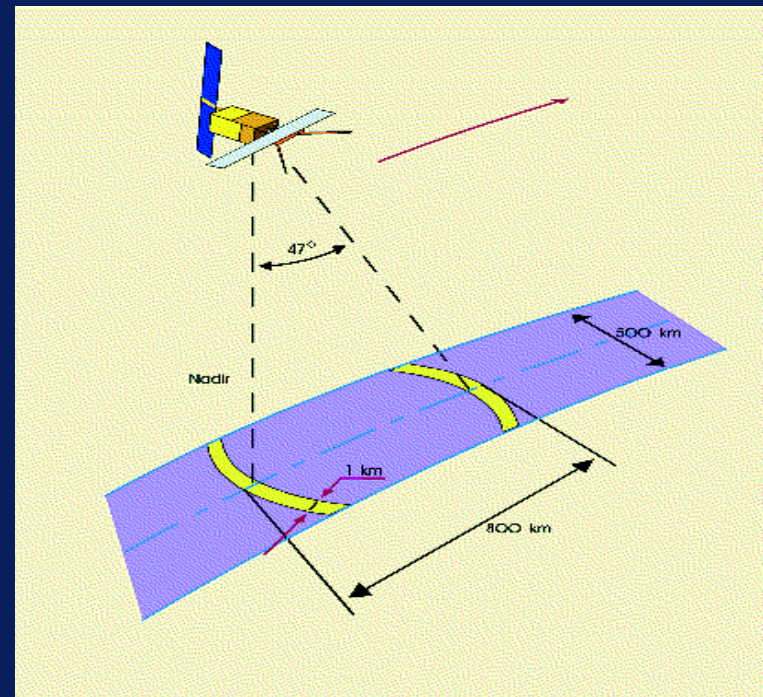


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Picture by courtesy of ESA

Advanced Along-Track Scanning Radiometer

- **dual view** radiometer onboard ENVISAT (ESA)
- seven bands (0.555, 0.659, 0.865, 1.6, 3.7, 11, 12 μm)
- 1 x 1 km² resolution sensor
- 512 km swath width
- polar orbit at ~ 800 km in 100 min.
- global coverage ~ 3 days



Goals for AATSR data

- Retrieval of **dust optical depth** over land and sea
- Dedicated aerosol retrieval routines
- **Comparisons** with ground-based instruments and other space-based instruments

Rationale : To investigate whether the retrieval of dust optical depth from AATSR data yields reliable results above the high reflecting desert surface as well as above the coastal waters.

AATSR overpasses for UAE² AERONET

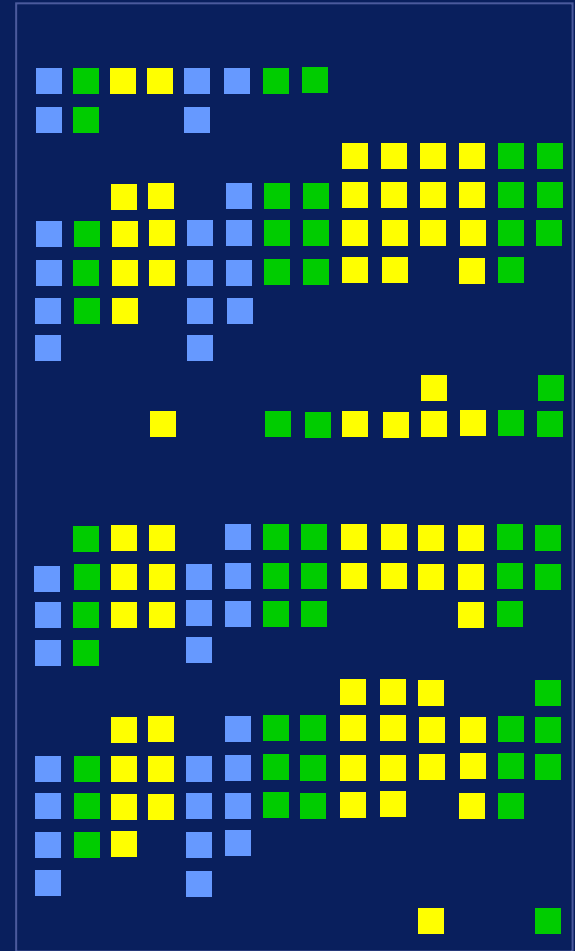
Dalma
Al Q'laa
Mezaira
Hamim
Abu Al Bukhoosh
Sir Bu Nuair
MAARCO
Dhabi
Al Khaznha
SMART
Jabal Hafeet
Saih Salam
Um Al Quwain
Dhadnah

August

Orbit	Frame	Date	UTC
12685	3105	20040803	06:45:06
12728	3105	20040806	06:50:51
12785	3105	20040810	06:24:59
12828	3105	20040813	06:30:44
12871	3105	20040816	06:36:29
12914	3105	20040819	06:42:14
12957	3105	20040822	06:47:59
13000	3105	20040825	06:53:44
13014	3105	20040826	06:22:08
13057	3105	20040829	06:27:52

September

13100	3105	20040901	06:33:37
13143	3105	20040904	06:39:21
13186	3105	20040907	06:45:06
13229	3105	20040910	06:50:51
13286	3105	20040914	06:24:59
13329	3105	20040917	06:30:44
13372	3105	20040920	06:36:29
13415	3105	20040923	06:42:14
13458	3105	20040926	06:47:59
13501	3105	20040929	06:53:45
13515	3105	20040930	06:22:08



■ ocean ■ coastal ■ desert



AATSR coverage during UAE²

