

Preparedness for Analysis Ready Data (ARD) from RESOURCESAT

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Scheme for Atmospheric Correction of Resourcesat-2 AWiFS data (SACRS2)



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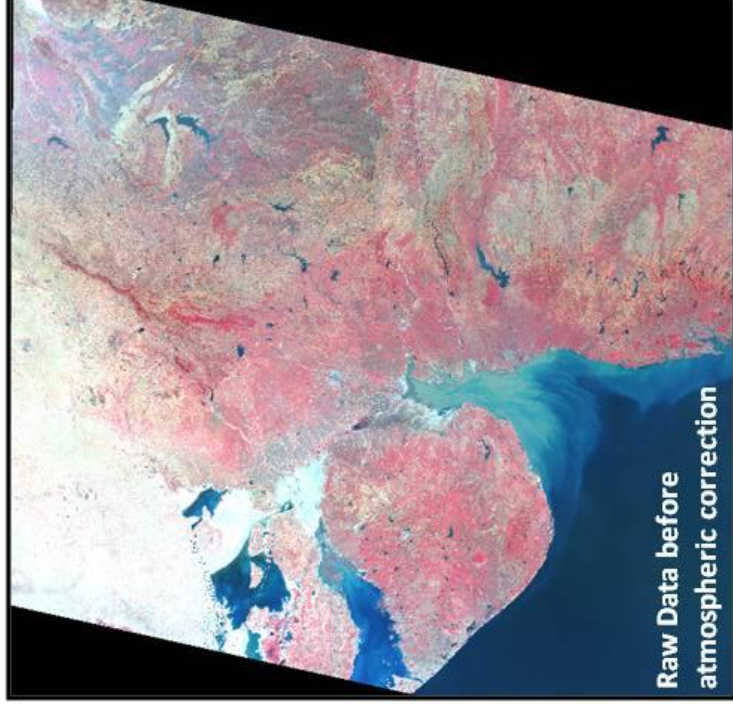


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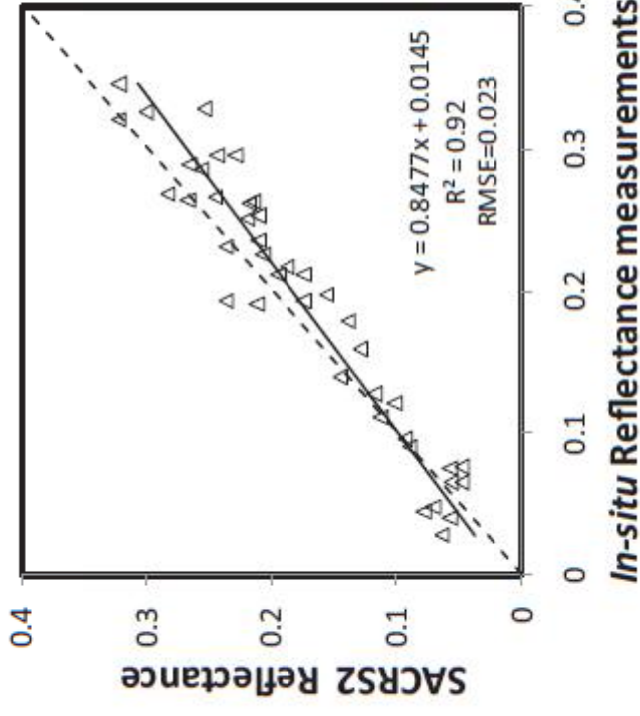
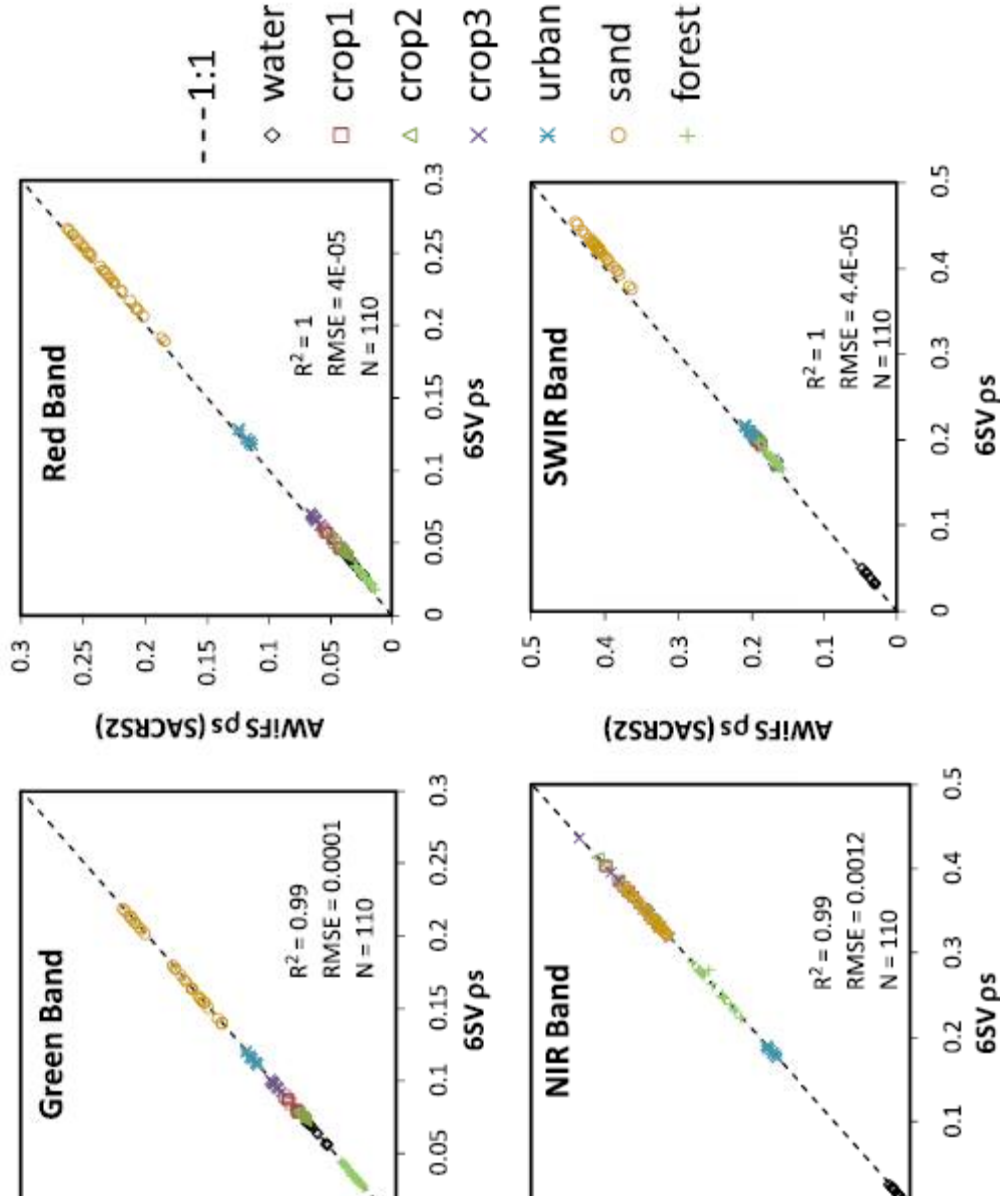
Development of a scheme for atmospheric correction of Resourcesat-2 AWiFS data

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Validation of SACRS2-derived reflectance with 6S-derived and situ reflectance

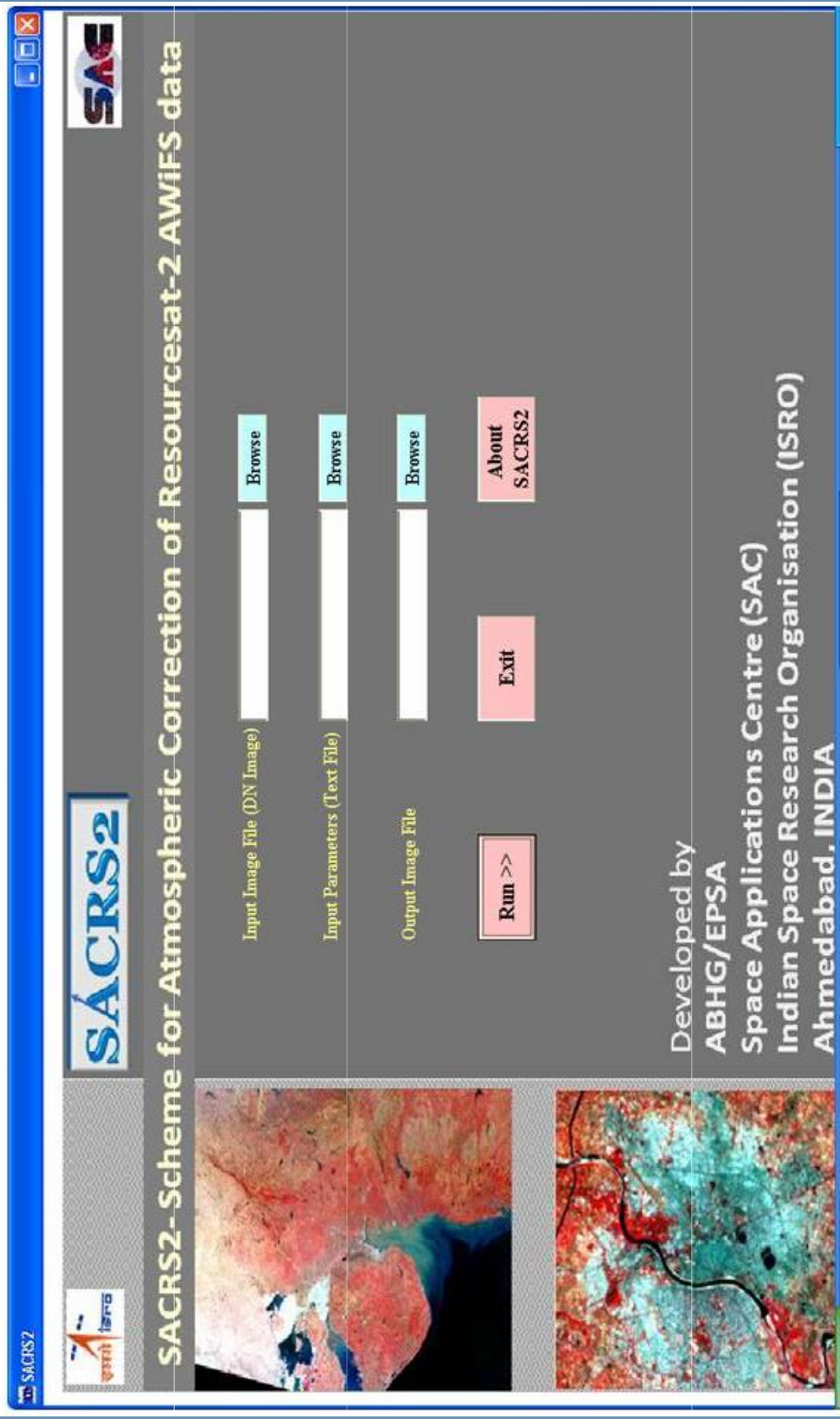


Validation of SACRS2 reflectance with the in-situ measurements over Bareja, Kutchh, Hoshangabad sites.

Comparison of surface reflectances (ps) in four spectral bands derived using the SACRS2 scheme and 6SV model for the RS2 AWiFS data over various land covers.

Software package developed: SACRS2-AWiFS

Atmospheric Correction Model- SACRS2
for Resourcesat2-AWiFS Developed and Released on
MOSDAC (www.mosdac.gov.in/tools/SACRS2_Package.rar)



SACRS2 software released on MOSDAC site

MOSDAC- New Version

www.mosdac.gov.in/login.jsp

Go

**MOSDAC**

Govt of India
Meteorological & Oceanographic Satellite
Data Archival Centre



2002 KALPANA

2003 INSATIA

2009 OCEANSAT2

2013 MEGHATROPIQUES

2013 SARAL

2013 INSAT3D

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Application of Space Technology for the benefit of the common man.
Weather forecasting, cyclone prediction & continuous weather & ocean data availability.

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ALERTS FROM EXPERIMENTAL FORECAST

Uttarakhand Heavy Rain/Cloudburst image

EVENTS

Archives

EVENTS OF NOVEMBER 2013

MARS COLOR CAMERA CAPTURES CYCLONE HELEN on NOV. 19, 2013

MISSIONS

KALPANA

INSAT3A

OCEANSAT2

MEGHA TROPIQUES(MT)

SARAL

INSAT-3D

SERVICES

PRODUCT CATALOGUE

METADATA

SATELLITE DATA

IN-SITU DATA

WEATHER FORECAST

SEA STATE FORECAST

CYCLONE

CALVAL

AWS-MP

No C.

TODAY'S FORECAST OF AHMEDABAD

Temperature(°C): 26.5(14:30 Hrs)

Rain (mm): No Rain(17:30 Hrs)

Humidity(%): 69.5(17:30 Hrs) [more](#)

...

ANNOUNCEMENTS

- Atmospheric Correction Model for Resourcesat-2 AWFIS data (SACRS2) Released

- Megha-Tropiques L1B Software updated to ver007 from dump orbit 14403

- SARAL Visualisation Tool (8 version) **NEW**

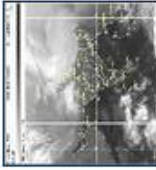
October to December 2013 INSAT3D data (IMAGER & SOUNDER) is being reprocessed. Same will be available shortly.

APPLICATIONS

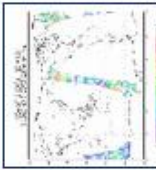
SARAL - World Sea State Atlas

MEGHA-TROPIQUES & SARAL Satellites

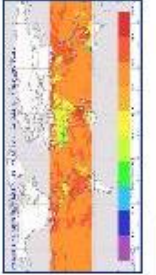
KALPANA-1



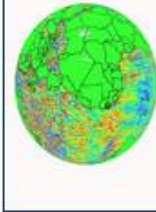
OSCAT



MEGHA TROPIQUES



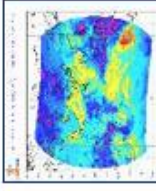
SARAL-SSHA



HEAVY RAIN

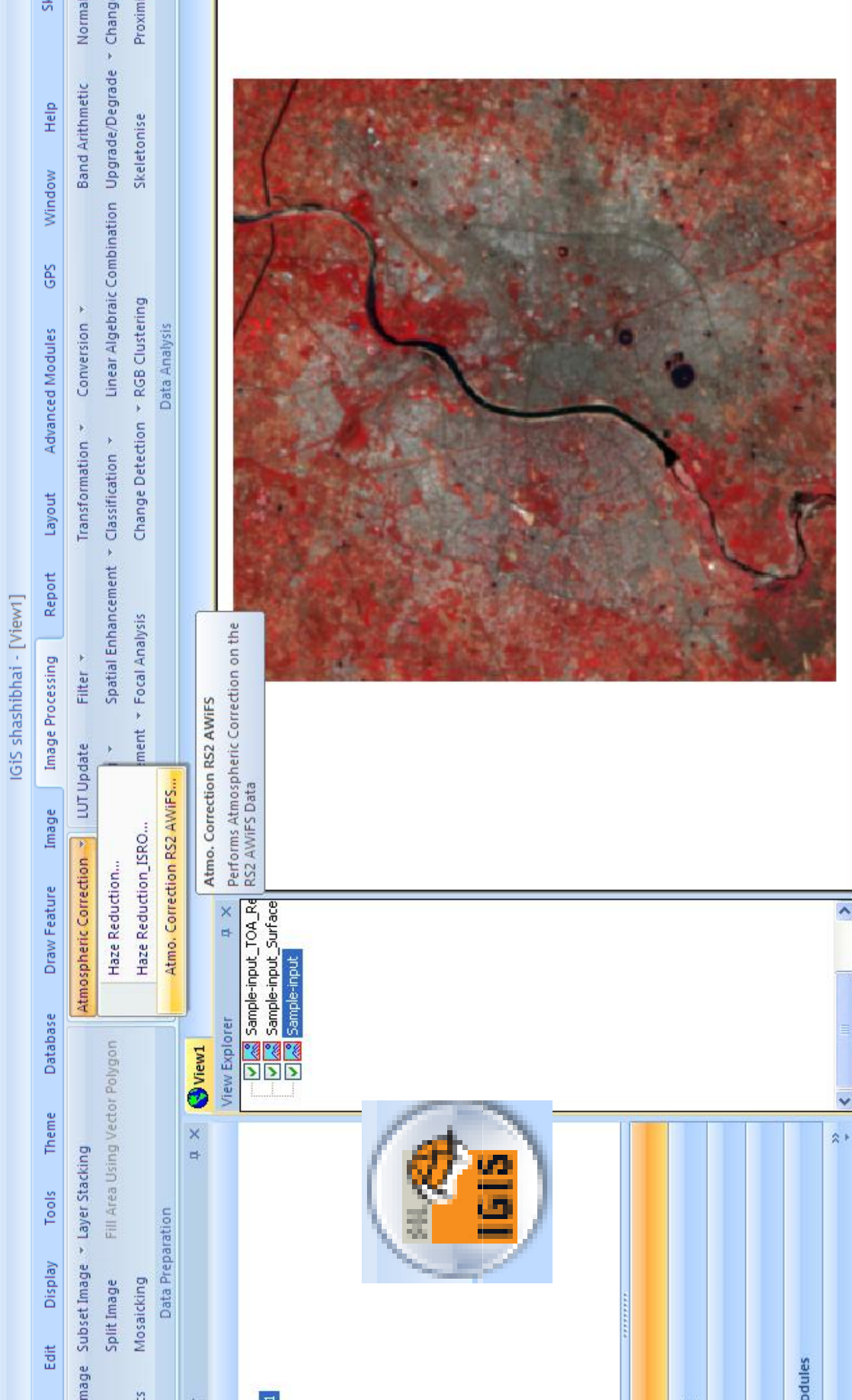


OTHER PRODUCTS



www.mosdac.gov.in/metadataBrowse.do?mode=displaySatelliteForm

SACRS2 module included in IGIS V2 software



Model takes raw Digital Number file of RS2-AWiFS as input and provides radiance, TOA reflectance and Surface Reflectance as outputs based upon atmospheric and viewing geometry parameters

Atmo. Correction RS2 AWiFS

Input Details:
 Input DN Image: C:\Documents and Settings\Administrator\Desktop\SACRS2_Pad...
 Width: 400 Height: 400 Bands: 4 Data Type: Unsigned 16 bit

Output Options:
 Output Directory: ...
☒ Radiance ☒ TOA Reflectance ☒ Surface Reflectance Output Image Type: Tif

Input Options:
 Assign Saturation Radiance
 Day of the Year: 326

Model Input for Scene Center:
 Sun Zenith Angle (deg): 46.617
 Sun Azimuth Angle (deg): 156.094
 View Zenith Angle (deg): 0
 View Azimuth Angle (deg): 0
 Ground Altitude (meters): 10
 AOT (at 550 nm): 0.33
 Column wV (gm/cm2): 0.99
 Column O3 (atm-cm): 0.3

Input Subset Options:
 AOI Options:
☒ Spatial Subset ☐ Mask Image ☐ Mask Theme
 Masking Type: ☒ Inner Mask ☐ Outer Mask
 Coordinate Type: ☒ Map ☐ File
 Reset From Inquire Box
 UL X: 142492.0000 LR X: 164892.0000
 UL Y: 14700.0000 LR Y: -7700.00000

Spectral Subset:
 Band Selection 4/4 Bands

Output Type:
 Float 32 bit

OK Cancel Stop Help

Saturation Radiance (mW/(cm2*Sr*µm))

Band1:	LMIN: 0.000000	LMAX: 52.000000
Band2:	LMIN: 0.000000	LMAX: 47.000000
Band3:	LMIN: 0.000000	LMAX: 31.500000
Band4:	LMIN: 0.000000	LMAX: 7.500000

OK Cancel