C-FAR
Terra Validation
Instrument Checkout Flight Results
24 March 2000

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C-FAR Measurement Complement

**Up-Looking Radiometers**
- FR Spectral Hemispheric 0.4 - 2.20 μm
- Eppley PSP 0.3 - 3.0 μm
- Eppley PIR 5 - 50 μm

**Down-Looking Radiometers**
- FR Spectral Hemispheric 0.4 - 2.20 μm
- Eppley PSP 0.3 - 3.0 μm
- Eppley PIR 5 - 50 μm
- Narrow FOV Spectral Directional Radiance Scanner 0.35 - 2.5 μm (October 2000)
The C-FAR Clear-Sky Terra Coincident Ocean Validation Flight Profile.
- Five complete patterns from 30 to 3,000 m MSL.
- CERES Ocean Validation Platform Coincident Measurements.
C-FAR Footprint (45 Degree Basis)

<table>
<thead>
<tr>
<th>Altitude</th>
<th>Footprint Diameter</th>
</tr>
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<tbody>
<tr>
<td>30 m</td>
<td>60 m</td>
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<tr>
<td>150 m</td>
<td>300 m</td>
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<tr>
<td>300 m</td>
<td>600 m</td>
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<tr>
<td>1500 m</td>
<td>3000 m</td>
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<tr>
<td>3000 m</td>
<td>6000 m</td>
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COVE Region Soundings

Mean Low Tide Depths

C-FAR MISR Flight Pattern
CFAR - Upwelling Spectroradiometer - Full Range
MISR OverflightCoincident Data
24 March 2000 (Day 084)
150 m MSL, Outbound Leg
CFAR - Downwelling Spectral Radiometer - Full Range
MISR Overflight Coincident Data
24 March 2000 (Day 084)
30 Meters Altitude, Outbound Leg
CFAR - Downwelling Spectral Radiometer - Full Range
MISR Overflight Coincident Data
24 March 2000 (Day 084)
3000 Meters altitude, Outbound Leg
C-FAR Upwelling Spectral Irradiance
Effluent Plume Area
24 March 2000 (Day 084)
C-FAR Downwelling Spectral Irradiance
Effluent Plume Area
24 March 2000 (Day 084)
C-FAR Downwelling Spectral Irradiance
COVE Platform Area
24 March 2000 (Day 084)
C-FAR Spectral Albedo
MISR Coincident Data
24 March 2000 - day 084
3000 Meters Altitude  Outbound Leg
C-FAR COVE Spectral Albedo Variability With Height
MISR Overflight Coincident Data
24 March 2000 (Day 084)
C-FAR Spectral Albedo Variability With Height
MISR Overflight Coincident Data
24 March 2000 (Day 084)
Outbound Legs (West To East Progression)
C-FAR Schedule

April - May 2000 - Broadband Pyranometer & Pyrgeometer Enhancements, Spectroradiometer Recertification

June 2000 - Resumption of Terra Coincident COVE and Hogg Island Flights 2 - 4 Per Month on Optimum Overpass Dates.

August 2000 - Begin Spectral Radiance Scanner Integration

October 2000 - Spectral Radiance Scanner Local Instrument Checkout Flights (COVE / Hogg Island)

November / December 2000 - Yuma Desert BRDF

Spring 2001 - ARM CART (TBD)

C-FAR On The Web at: www-svg.larc.nasa.gov/~Ceres