The CERES S’COOL Project

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SAIC

25th CERES Science Team Meeting
Brussels, Belgium
January 21-23, 2002
Participating S'COOL Schools

- Over 1000 participating schools
- 67 schools visited by the S'COOL team (marked in red)
- Student observers in 58 countries
- More than 10,000 observations to date

Enrollment as of November 2001
S’COOL Accomplishments
Since May 2001
CERES Science Team Meeting

- Passed the 1000 Participant Milestone Oct. 31, 2001
- A dozen school visits
- A dozen teacher conferences
- Sent the Latest Newsletter in December
  - English (1030) / French (50) / Spanish (122)
- Summer activities:
  - LARSS student – Amanda Falcone (ES8 vs. SSF)
  - Teacher intern – Christine York (team interviews)
COAA S’COOL Day

- 17 students + 2 teachers from Taiwan FGHS
- 6 local and US students
- Day of learning and fun
3rd Annual Teacher Workshop

- 24 teachers from 17 states and 2 DOD Schools
- A week *packed* with learning
- Teachers now giving S’COOL Presentations
### SSF Comparison – pre Terra

<table>
<thead>
<tr>
<th>Satellite</th>
<th>Ground</th>
<th>Clear</th>
<th>Partly Cloudy</th>
<th>Mostly Cloudy</th>
<th>Overcast</th>
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<td>11</td>
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<td>1</td>
<td>5</td>
<td>11</td>
</tr>
</tbody>
</table>

Agree: 58  
1-class: 23  
2-class: 9  
3-class: 0

\[ \chi^2 = 120 \]  
Significance = 1e-19 %
## ES8 Comparison – TRMM only

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<tr>
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<th>Overcast</th>
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<td>3</td>
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<tr>
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<td>1</td>
<td>2</td>
<td>6</td>
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</table>

Agree: 19  
1-class: 47  
2-class: 4  
3-class: 1

$\chi^2 = 49$  
Significance = 2e-5 %
## ES8 vs SSF: Direct Comparison

<table>
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<th>Overcast</th>
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<tr>
<td>Overcast</td>
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</tbody>
</table>

### Ground Data

- **Clear**:
  - Satellite: Clear, Overcast
  - Ground: Clear, Overcast

- **Partly Cloudy**:
  - Satellite: Partly Cloudy, Overcast
  - Ground: Partly Cloudy

- **Mostly Cloudy**:
  - Satellite: Mostly Cloudy
  - Ground: Mostly Cloudy

- **Overcast**:
  - Satellite: Overcast
  - Ground: Overcast
ES8 vs SSF: Summary

- Only 26 direct matches pre Terra
- Definite trends in satellite ID
  - Clear -> Partly cloudy
  - Overcast -> Mostly cloudy
- Now pursuing operational ES8 -> S’COOL
- Full report on-line:
Other Highlights

• S’COOL shirts
News

• Spanish poster now available
• French and Spanish brochures now available
• Teacher Ambassadors for S’COOL
  – AMS Annual Meeting
  – West Virginia Teachers Conference
  – Local/regional presentations
Foreign Language Outreach

- New Spanish Team Member Making Great Inroads
- Beginning outreach to US foreign language teachers
Upcoming Events

• Version 2 S’COOL Database–Better/faster
• NM and National Bilingual Educators’ Meetings, Feb/March
• Sun-Earth Day, March 20, 2002
• Aqua launch, March 24 (?), 2002
• 4th annual teacher workshop July 17-24, 2002 – expanded to 6 days!