

2010 GSI Community Tutorial

DTC NCEP/EMC NASA/GMAO NOAA/GSD NCAR/MMM

June 28-30, 2010, Boulder, CO



Developmental Testbed Center

Number of registered users through the GSI webpage: 198

SRL | GSD | NCAR | RAL

DTC home Reference Configurations Testing & Evaluation Community Codes Verification Visitor Program Events

Community Gridpoint Statistical Interpolation | DTC Search UCAR advanced

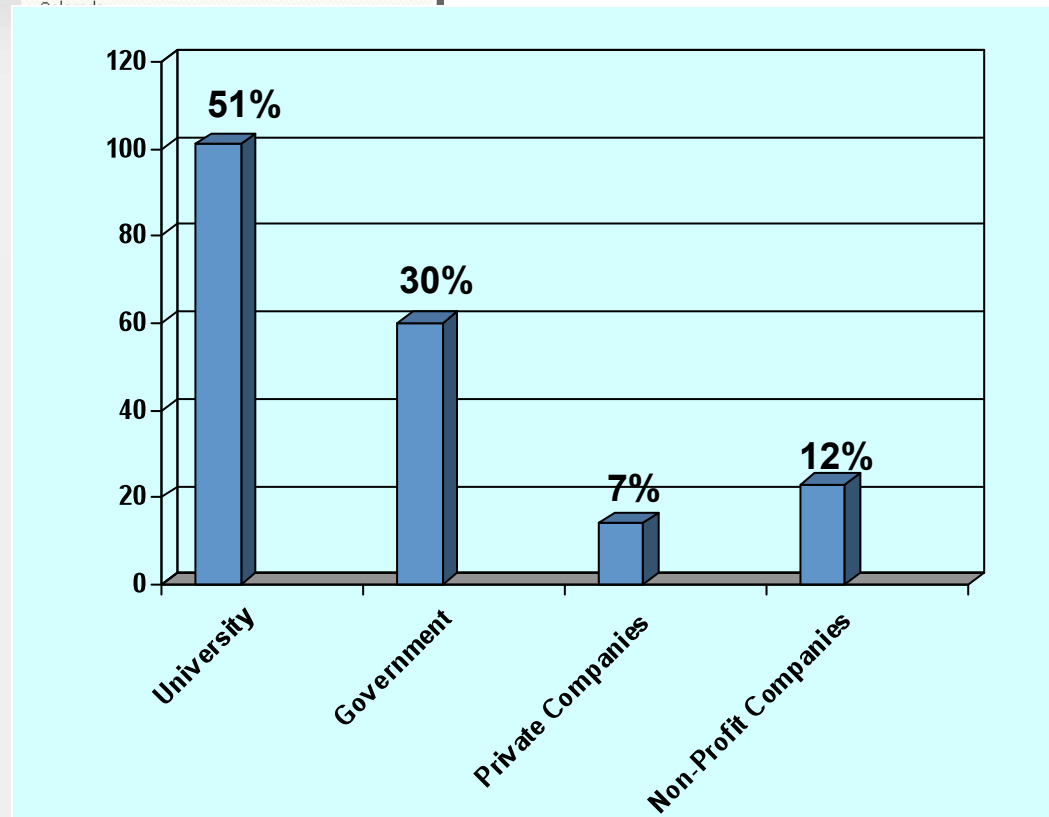
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GSI User Summary

The following information has been gathered from the GSI download registration form. This list is only available to individuals within UCAR.

Events
11th Annual WRF Workshop
06.21.2010 to 06.25.2010
Location: NCAR's Center Green Campus, Boulder, CO

- Number of registered users: **198**
- Number who would like/not like email updates: **176 / 22**
- Number for military/non-military use: **6 / 192**
- Registered users by **affiliation type**:
 1. University: **101 (51%)**
 2. Government: **60 (30%)**
 3. Private Companies: **14 (7%)**
 4. Non-Profit Companies: **23 (12%)**
- Registered users by **detailed affiliation type**:
 1. US Universities: **71 (36%)**
 2. US Government / State Agencies: **20 (10%)**
 3. US Private Companies: **8 (4%)**
 4. US Non-Profit: **4 (2%)**
 5. Non-US Universities: **30 (15%)**
 6. Non-US Government / Provincial Agencies: **40 (20%)**
 7. Non-US Private Companies: **6 (3%)**
 8. Non-US Non-Profit: **19 (10%)**
- Registered users by **country**:
 1. Argentina: **1 (1%)**
 2. Australia: **2 (1%)**
 3. Austria: **1 (1%)**
 4. Bangladesh: **2 (1%)**
 5. Brazil: **4 (2%)**
 6. Canada: **1 (1%)**
 7. China: **25 (12%)**
 8. Denmark: **1 (1%)**
 9. France: **1 (1%)**
 10. Germany: **1 (1%)**
 11. India: **1 (1%)**
 12. Italy: **1 (1%)**
 13. Japan: **1 (1%)**
 14. Korea: **1 (1%)**
 15. Mexico: **1 (1%)**
 16. Netherlands: **1 (1%)**
 17. Norway: **1 (1%)**
 18. Poland: **1 (1%)**
 19. Russia: **1 (1%)**
 20. South Africa: **1 (1%)**
 21. Sweden: **1 (1%)**
 22. Switzerland: **1 (1%)**
 23. Taiwan: **1 (1%)**
 24. Thailand: **1 (1%)**
 25. United Kingdom: **1 (1%)**
 26. United States: **1 (1%)**
 27. Vietnam: **1 (1%)**



Community GSI Release

Tasks	NCEP Global Implementation	DTC Release
Beta release v1.0	Q1FY09 ~Feb, 2009	Jun, 2009
Official release v1.0	Q1FY09 ~Feb, 2009	Sep, 2009
Beta release v2.0	Q1FY10 Dec, 2010	Feb, 2010
Official release v2.0	Q1FY10 Dec, 2010	Apr, 2010



2010 Tutorial Agenda

http://www.dtcenter.org/com-GSI/users/tutorial/resident/gsi_tutorial_2010.2.php

Lectures: FL Auditorium

**Practical Session: COMET
room (right behind the
front desk at the main
entrance)**

**Group Picture: Tuesday
Morning Break, 10:30am,
06/29**

Monday 06/28

- 8:00 Registration
- 8:30 Welcome, background and Participants' Introduction - Hans Huang (NCAR)/
John Derber (NCEP/EMC)
- 9:00 Fundamental of Data Assimilation - Tom Augline (NCAR)
- 10:00 Coffee Break
- 10:30 Overview of GSI - John Derber (NCEP/EMC)
- 11:30 Lunch
- 1:00 GSI Setup, Run and Namelist - Hui Shao (NCAR)
- 2:00 GSI Software Design - Don Stark (NCAR)
- 3:00 Coffee Break
- 3:30 Introduction to practice session I (COMET room)
- 3:45 Practice session (COMET room)
- 5:30 Adjourn

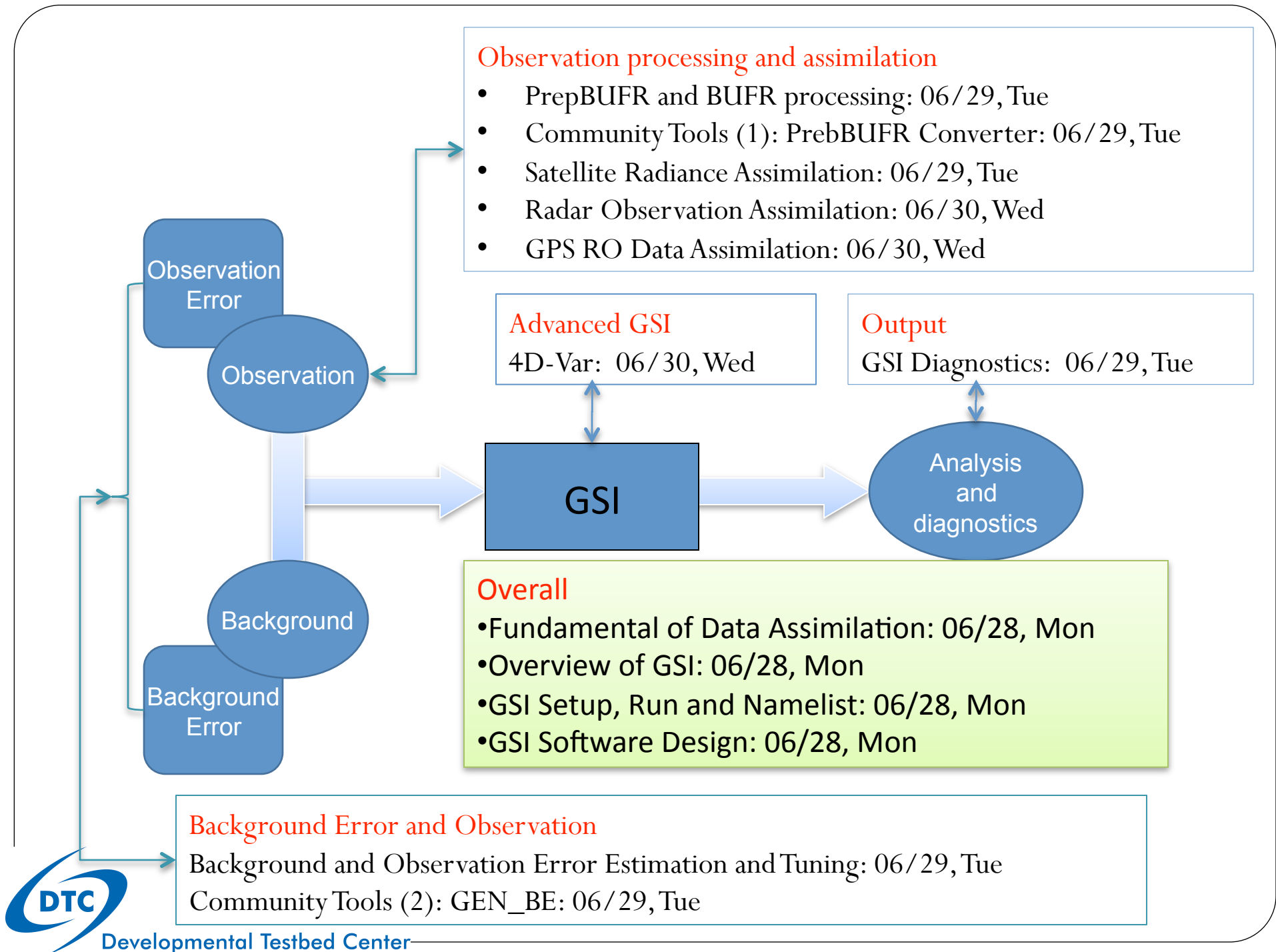
Tuesday 06/29

- 8:30 Observations: PrepBUFR and BUFR - Stacie Bender (NCEP/EMC)
- 9:15 Community Tools (1): PrepBufr Converter - Ming Hu (NOAA/GSD & CIRES)
- 10:00 Coffee Break (Group picture)
- 10:30 Background and Observation Error Estimation and Tuning -
Wan-shu Wu (NCEP/EMC)
- 11:30 Lunch
- 1:00 Community Tools (2): GEN_BE - Syed Rizvi (NCAR)
- 1:30 Satellite Radiance Assimilation: John Derber (NCEP/EMC)
- 2:30 GSI Diagnostics - Ming Hu (NOAA/GSD & CIRES)
- 3:00 Coffee Break
- 3:30 Introduction to practice session (COMET room)
- 3:45 Practice session (COMET room)
- 5:30 Adjourn

Wednesday 06/30

- 8:30 Radar Observation Assimilation - Shun Liu (NCEP/EMC)
- 9:15 GPS RO Data Assimilation - Lidia Cucurull (NCEP/EMC)
- 10:00 Coffee Break
- 10:30 4D-Var - Todling Ricardo (NASA/GMAO)
- 11:30 Open discussion
- 12:00 Lunch
- 1:30 Optional Practice Session (COMET room)
- 5:30 Adjourn





Observation processing and assimilation

- PrepBUFR and BUFR processing: 06/29, Tue
- Community Tools (1): PrebBUFR Converter: 06/29, Tue
- Satellite Radiance Assimilation: 06/29, Tue
- Radar Observation Assimilation: 06/30, Wed
- GPS RO Data Assimilation: 06/30, Wed

Advanced GSI

4D-Var: 06/30, Wed

Output

GSI Diagnostics: 06/29, Tue

GSI

Analysis and diagnostics

Overall

- Fundamental of Data Assimilation: 06/28, Mon
- Overview of GSI: 06/28, Mon
- GSI Setup, Run and Namelist: 06/28, Mon
- GSI Software Design: 06/28, Mon

Background Error and Observation

- Background and Observation Error Estimation and Tuning: 06/29, Tue
- Community Tools (2): GEN_BE: 06/29, Tue



Tutorial Lecturers and Practical Session Instructors

NCEP/EMC	NASA/GMAO	NOAA/GSD	NCAR/MMM	NCAR/RAL
John Derber Stacie Bender Wan-shu Wu Shun Liu Lidia Cucurull	Todling Ricardo	Ming Hu*	Tom Augline Syed Rizvi Ruifang Li	Hui Shao* Don Stark* Kathryn Crosby*

* Also affiliated with Developmental Testbed Center (DTC)

