

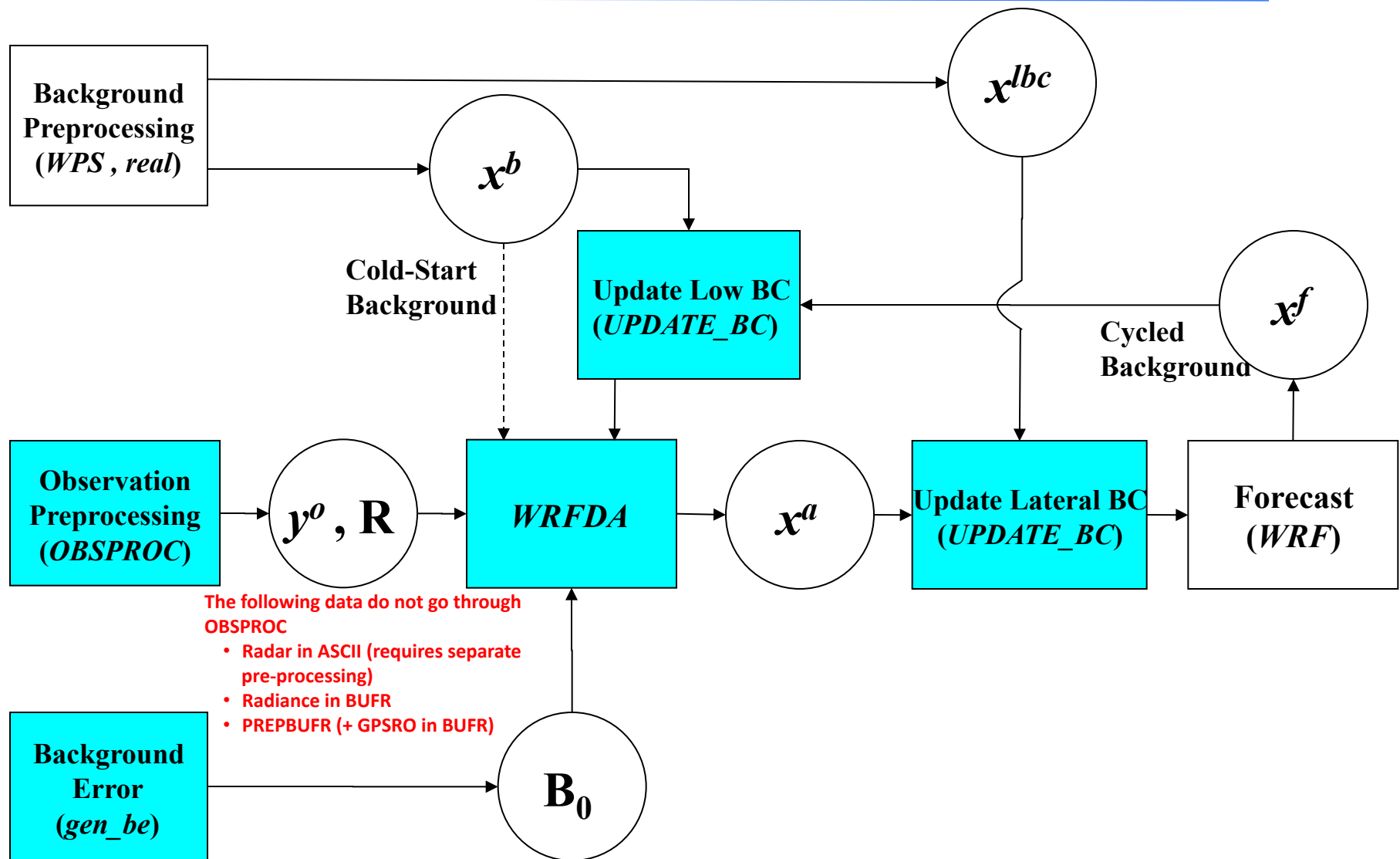


Final Remarks

WRFDA 2012 Tutorial

July 23-July 25, 2012, Boulder, CO

WRFDA system



Final remarks

- Statistics and control theory
- Observing systems
- Observation operator **H**: $\mathbf{H}(\mathbf{x}) \Rightarrow \mathbf{y}$
- Ensemble forecasts and ensemble Kalman filters
- Other data assimilation techniques
- Support, non-support and collaborations

*What have you learned and
how can we improve?*

http://www.mmm.ucar.edu/wrf/users/wrfda/Tutorials/2012_July/index.html

The banner features a green background. On the left, there is a small image of hands typing on a keyboard with the text "Hands on Tutorial" overlaid. To the right of the image, the text "WRFDA Practical Sessions" is written in a large, bold, green font, followed by "Summer Tutorial 2012" in a slightly smaller, bold, green font. Below this, a horizontal navigation bar contains four links: "Data&Code", "Exercises", "Feedback" (which is circled in blue), and "WRF Basic".

WRFDA Practical Sessions
Summer Tutorial 2012

Data&Code Exercises **Feedback** WRF Basic

<https://survey.ucar.edu/s?s=8254>

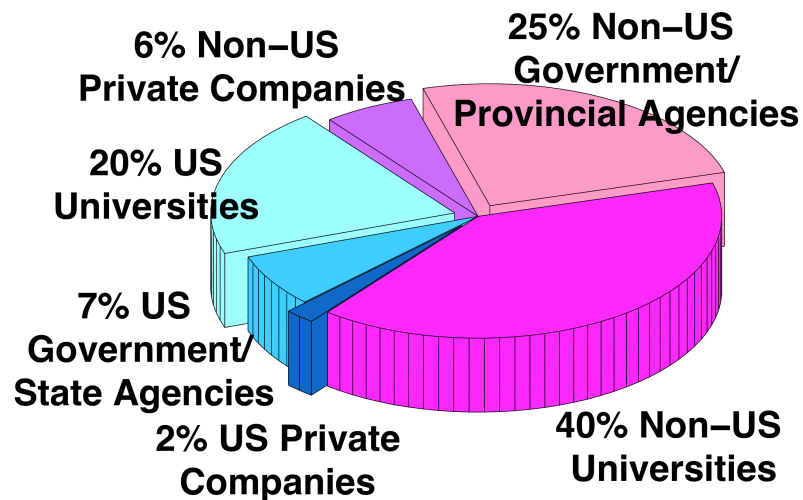
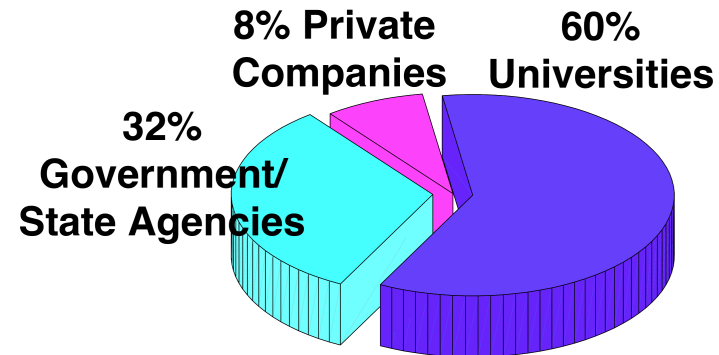
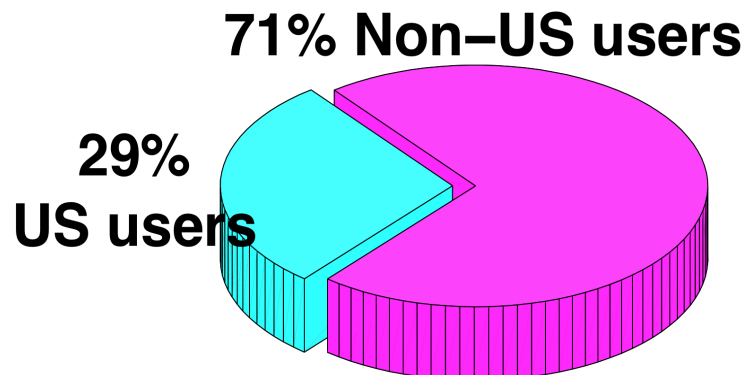
- Lack of a clear procedure of adding a new observation type
 - improve WRFDA system/software documentation



Become an active user

- Become a registered user
- Visit Users' web pages
 - Check code updates, bug reports, updated documents, Version 3
 - Check upcoming events, like annual workshop
- Write to wrfhelp@ucar.edu for WRF related problems/feedback
- Participate in annual users' workshop (NCAR, June)
- Apply for NCAR visitor programs to come here working on WRFDA
- Join the WRFDA development

WRFDA User Statistics



Statistic from 2011~2012

Registered users by affiliation type:

Universities:	60%
Government:	32%
Private Companies:	8%

Registered users by detailed affiliation type:

US Universities:	20%
US Government/State Agencies:	7%
US Private Companies:	2%
Non-US Universities:	40%
Non-US Government/Provincial Agencies:	25%
Non-US Private Companies:	6%

Registered users by country:

US users:	29%
Non-US users:	71%

Use the latest WRFDA release



WRFDA USERS PAGE

Home Analysis System User Support Download Doc / Pub Links Internal Users Forum

Overview

[Download the latest version of WRFDA](#)

WRFDA products

WRF data assimilation system software Version 3.4 (April 6, 2012)
Release date: April 6, 2012 - WRFDA ([detail](#))

WRF data assimilation system software Version 3.3.1 (September 27, 2011)
Release date: September 27, 2011 - WRFDA ([detail](#))

WRF data assimilation system software Version 3.3 (April 6, 2011)
Release date: April 6, 2011 - WRFDA ([detail](#)) ([Known Problems](#))

WRF data assimilation system software Version 3.2.1 (August 18, 2010)
Release date: August 18, 2010 - WRFDA ([detail](#))

WRF data assimilation system software Version 3.2 (April 2, 2010)
Release date: April 2, 2010 - WRFDA ([detail](#))

WRF data assimilation system software Version 3.1.1 (July 31, 2009)
Release date: July 31, 2009 - WRFDA ([detail](#))

WRF data assimilation system software Version 3.1 (April 9, 2009)
Release date: April 9, 2009 - WRFDA ([detail](#))

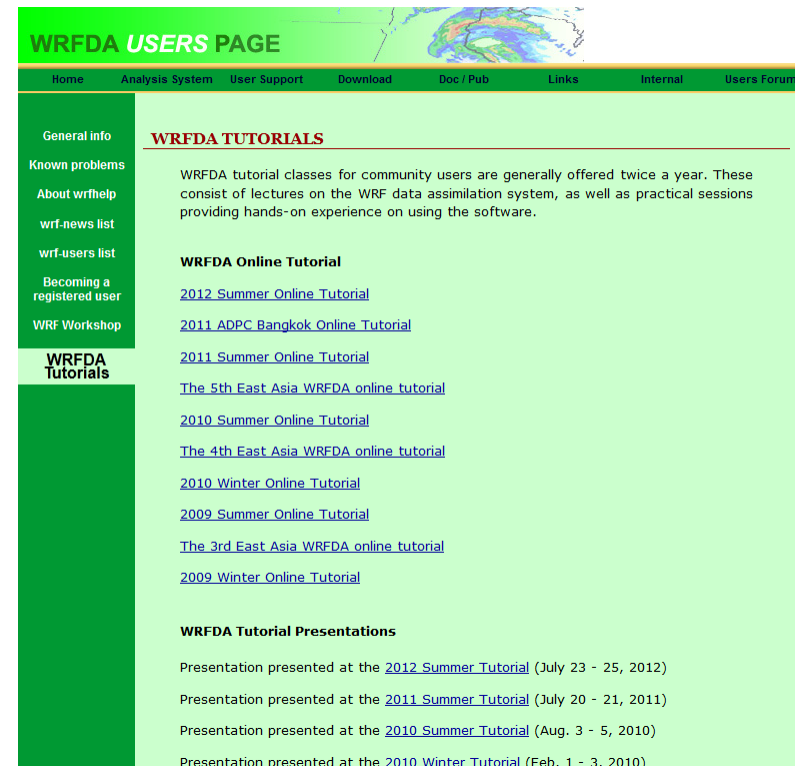
WRF data assimilation system software Version 3.0.1.1 (August 29, 2008)
Release date: August 29, 2008 - WRFDA ([detail](#))

http://www.mmm.ucar.edu/wrf/users/wrfda/Docs/user_guide_V3.4/users_guide_chap6.htm

One major release per year in spring
One minor bug-fix release in summer

User Support

- Email: wrfhelp@ucar.edu
- User Web Pages
- Users' Workshop
- Tutorials
- Users' Guide
- Technical Note



WRFDA USERS PAGE

Home Analysis System User Support Download Doc / Pub Links Internal Users Forum

WRFDA TUTORIALS

WRFDA tutorial classes for community users are generally offered twice a year. These consist of lectures on the WRF data assimilation system, as well as practical sessions providing hands-on experience on using the software.

WRFDA Online Tutorial

[2012 Summer Online Tutorial](#)

[2011 ADPC Bangkok Online Tutorial](#)

[2011 Summer Online Tutorial](#)

[The 5th East Asia WRFDA online tutorial](#)

[2010 Summer Online Tutorial](#)

[The 4th East Asia WRFDA online tutorial](#)

[2010 Winter Online Tutorial](#)

[2009 Summer Online Tutorial](#)

[The 3rd East Asia WRFDA online tutorial](#)

[2009 Winter Online Tutorial](#)

WRFDA Tutorial Presentations

Presentation presented at the [2012 Summer Tutorial](#) (July 23 - 25, 2012)

Presentation presented at the [2011 Summer Tutorial](#) (July 20 - 21, 2011)

Presentation presented at the [2010 Summer Tutorial](#) (Aug. 3 - 5, 2010)

Presentation presented at the [2010 Winter Tutorial](#) (Feb. 1 - 3, 2010)