

# Notes from breakout group 2

## Session 1 (Wed, 10/24/2012)

Notes by Ligia Bernardet

### **Our group**

Branch chief

2 FAB LAPS developer

1 Developmental Testbed Center

2 Private sector

1 NCAR scientist

1 Belgrade University

1 Korea

Mix of experienced and new users of LAPS

# Case studies: opportunity for collaborations

- Helpful to have test cases available online
- Current case: Windsor tornado case
- Future proposed cases
  - Hosted by user or by ESRL (can have link to case)
  - US and international cases
  - High-res and low-res
  - Cases to confirm if LAPS implementation is correct and cases for scientific study
  - These are just public cases - proprietary cases need to go elsewhere

# Open Source

- Some users contribute back
  - they want it integrated in the next release, makes life easier
- Some users do not contribute back
  - Expensive in the short term even if it hurts in the long term
- Users need access to the latest code to add development
- How many developers? Scale determines choice of solution
- Spectrum of options
  - Post weekly build tarfiles online
  - Post updates online (diffs from previous tarfile, so it is smaller)
  - Have LAPS in SVN repository available for check out
  - Have LAPS in SVN repository available for committing
- CRTM: need strategy for maintaining LAPS-specific changes (consider putting in repository)

# Documentation

- Could be streamlined
- More documentation about data formats, esp LSO
- Users can contribute 😊

# Testing

- Testing protocols setup by FAB developers with help from main developers
- Developers need to run some tests before proposing new developments
- Should not make it too burdensome for developer
- Tests to see if results match conceptual model
- Null tests: should not change certain answers
- Hierarchy of development: implementation in a way that allows it to be turned off until sufficiently tested

# Bottle necks

- Gridgen (Perhaps replace gridgen model with WPS-geogrid  
Baby step: there is now the ability of gridgen to read WPS output)
- Processing Doppler radar (but now parallelized!)
- LGA (but now runs in parallel with other processes!)

# Suggestions

- Use LAPS FORUM to ask questions!!
- List changes in namelist in README file
- Onsite tutorial with practical sessions (forces production of documentation)
- README file in PDF format, separate chapters
- Facilitate use of lightning data and turbulence measurements
- Make LAPS output ready for ingest onto MET