

GTWS Community Doppler Lidar Simulation Model.

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This presentation demonstrated the Operational Doppler Lidar Simulation Model (DLSM) and how to access it by connecting to the SWA website via cable modem. The model has its origins in coherent DWL studies begun in 1995, but has been updated as part of SWA's support for GTWS investigations, and is applicable to any DWL. The intent of this work is to make a reasonable and consistent model available to the entire community, thus facilitating more meaningful intercomparisons. Once a lidar concept is picked, the database of ECMWF and NASA DAO nature runs are in one place for extracting simulated observations. It is being distributed online rather than by CD-ROM because it is and will be subject to updating; keeping track of the different versions will be a challenge.

Notes

Rod Frehlich asked how shear and sub-grid variability will be included in the model. Sid replied that these are not currently available.

Sid was also asked whether the model can reproduce GASP aerosol observations. The reply was that GASP data were used to check the statistical correctness of the database.