

Relative Merits of Full vs. Partial Wind Profiles

G.D. Emmitt and R. Atlas

This presentation addressed the relative benefits of full versus partial wind profiles as an on-going work, laying the basis for new OSSEs. Users state different preferences for low and high level winds. Some older scatterometer studies indicated that the "right" models can couple lower level winds successfully to upper levels in some circumstances. The recent DAO OSSEs indicate the need for full profiles.

Notes

Asked what to do first if we can't afford everything, Dave indicated that the answer is application (user and customer) dependent. A comment was made that since the scatterometers give ocean surface winds, it might be fruitful to concentrate on upper levels with DWL. Asked about the value of wind versus water vapor profiles, Dave pointed out that the lack of wind information hinders studies of water vapor transport more than the lack of moisture data.