$OWLeSOrographic (O_2)$

Summary of Snow Transect Science

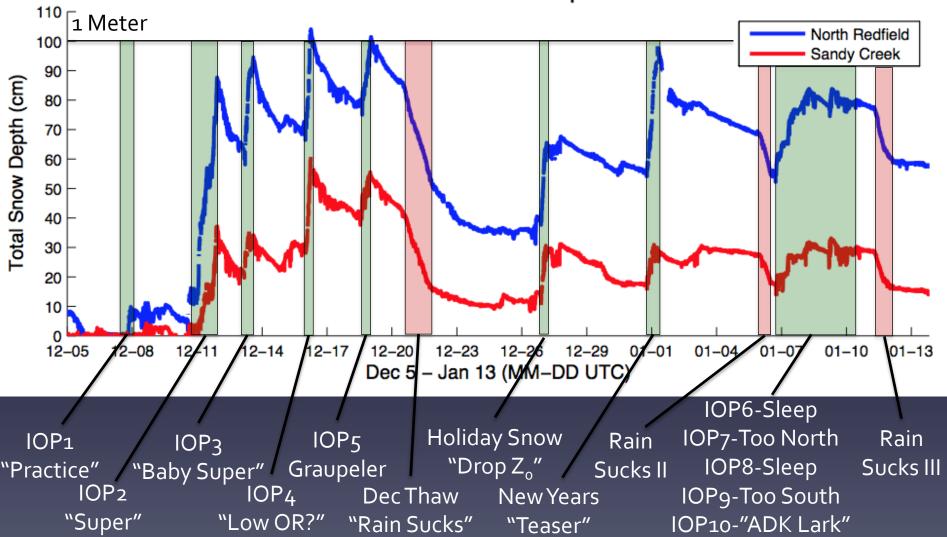
THE

Jim Steenburgh, Leah Campbell, and Peter Veals Department of Atmospheric Sciences University of Utah

Justin Minder and Ted Letcher Department of Earth and Atmospheric Sciences State University of New York, University at Albany

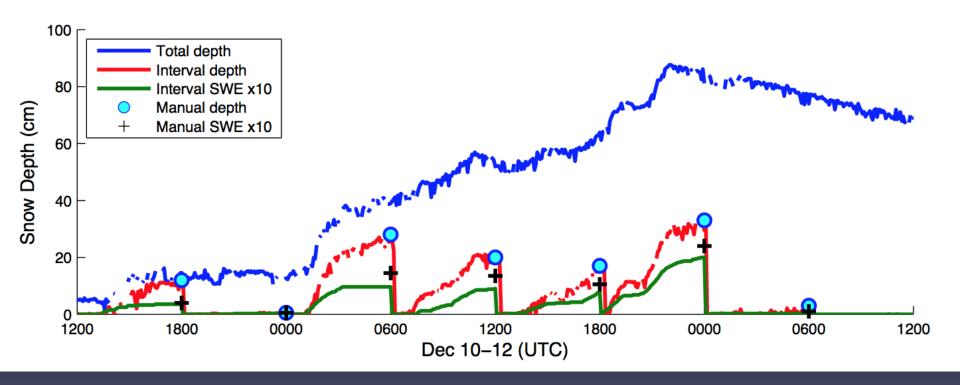
OWLeS in One Image

Total Snow Depth

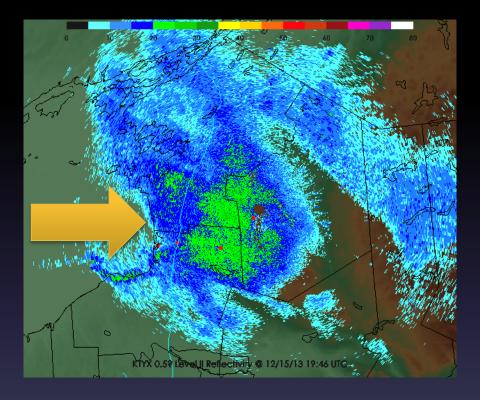


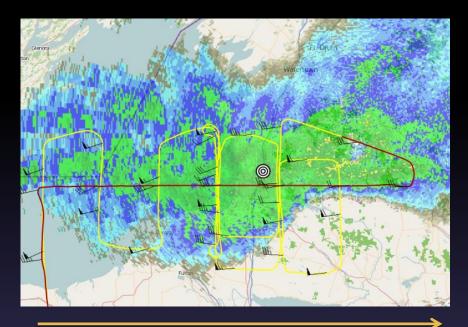
Multisensor Perspective: IOP2

North Redfield: IOP2



Some Interesting Stuff: IOP4

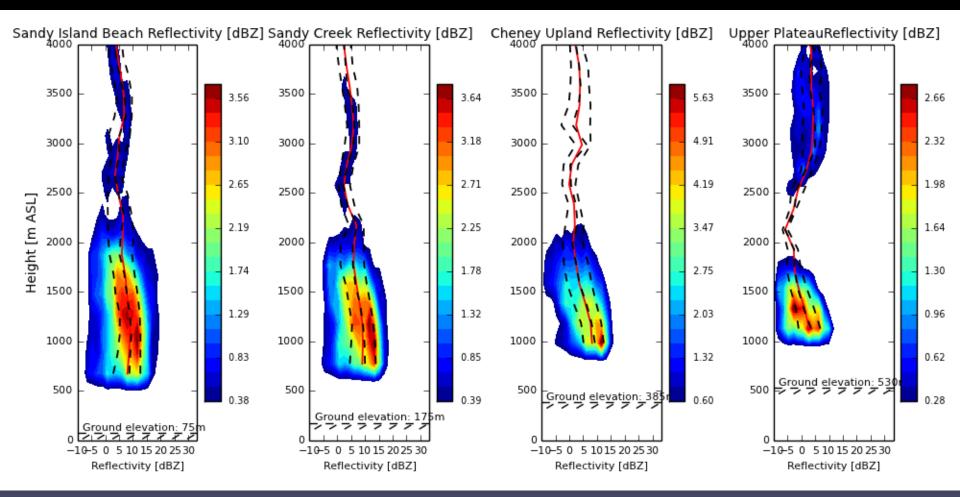




Along-band increase in reflectivity

Why Low OR?

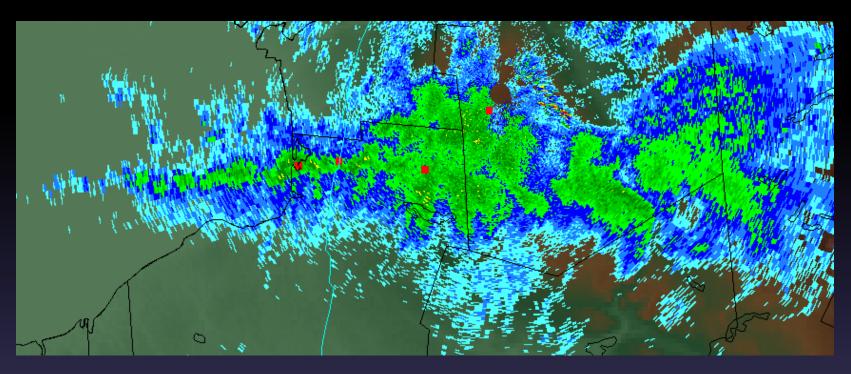
Some Interesting Stuff: IOP1



Low-level growth?

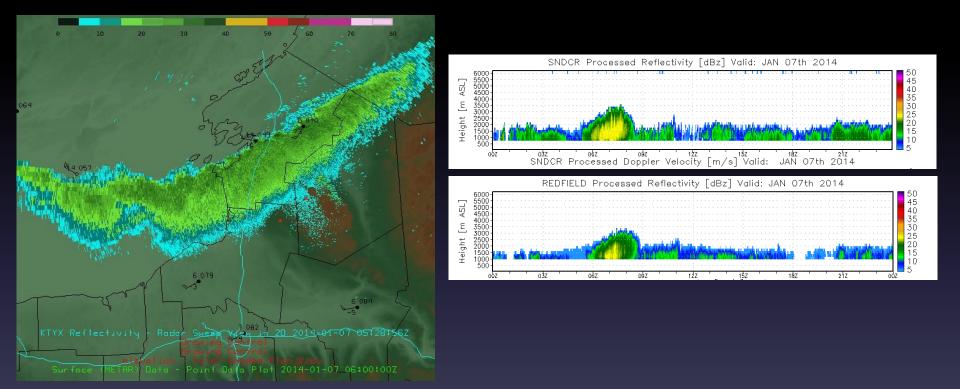
Low-level sublimation?

It's Better to be Lucky than Good



IOP5

IOP7Thundersnow



Greatest Snow on Earth?



Average Water Content of Freshly Fallen Snow @ Alta, UT: 8.4% Average Water Content during IOPs @ North Redfield, NY: 5.8%

Perspectives

- IOPs 2-5 are great events for our research interests
- Mainly interested now in "repetition" and/or one more big westerly event

 Crème-de-la-crème of orographic lake-effect IOP would allow us to have surveillance DOW, MIPS in North Redfield, Millersville soundings in Sandy Creek, Utah soundings in North Redfield, and UWKA flying over transect