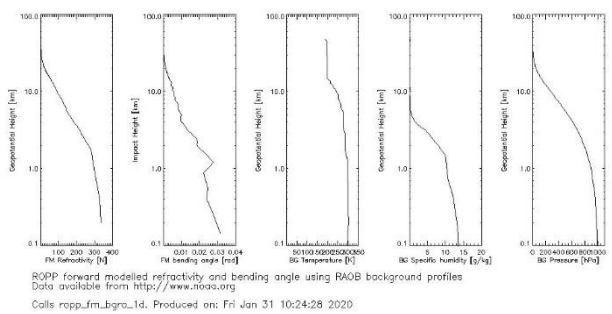
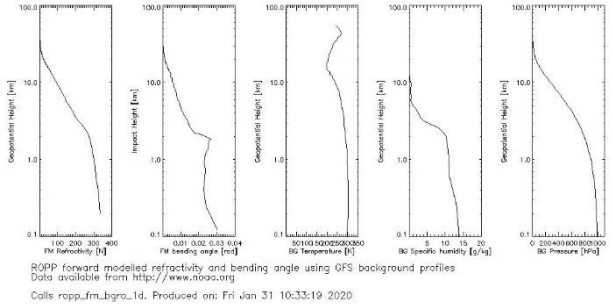
Statement of Work

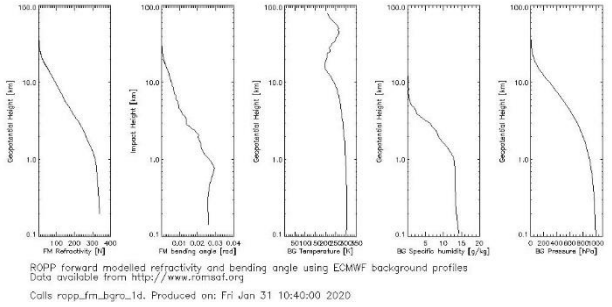
- Developing a dry temperature algorithm for FSI system
  - The algorithm has been integrated into FSI system
- Developed a procedures to transform GFS forecast to ROPP forward model background
- Developed a procedures to transform RAOB to ROPP forward model background
- Compared bending angle and refractivity of ROPP forward model output with col-located RAOB, GFS, and ECMWF as input



RAOB



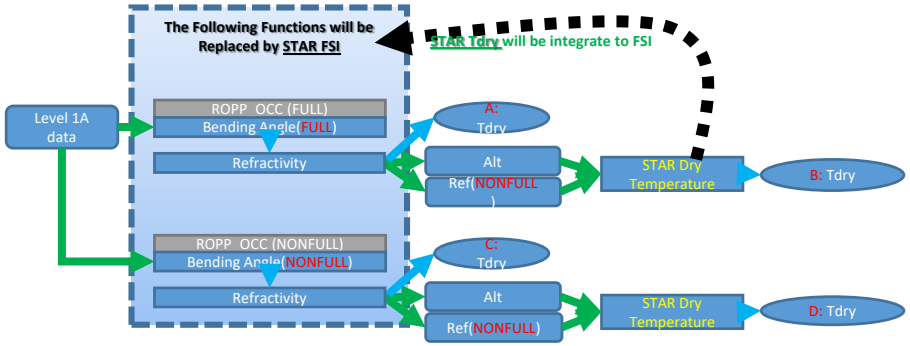
GFS

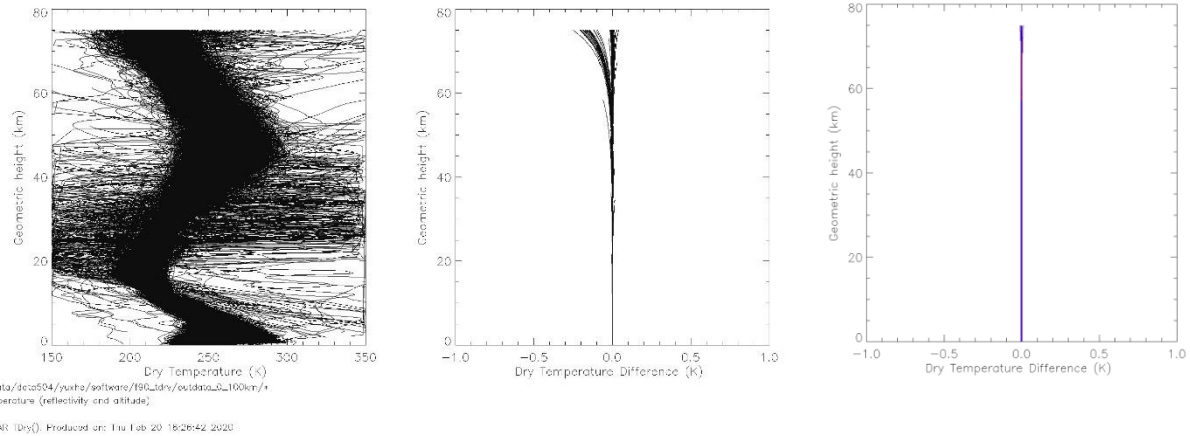


ECMWF

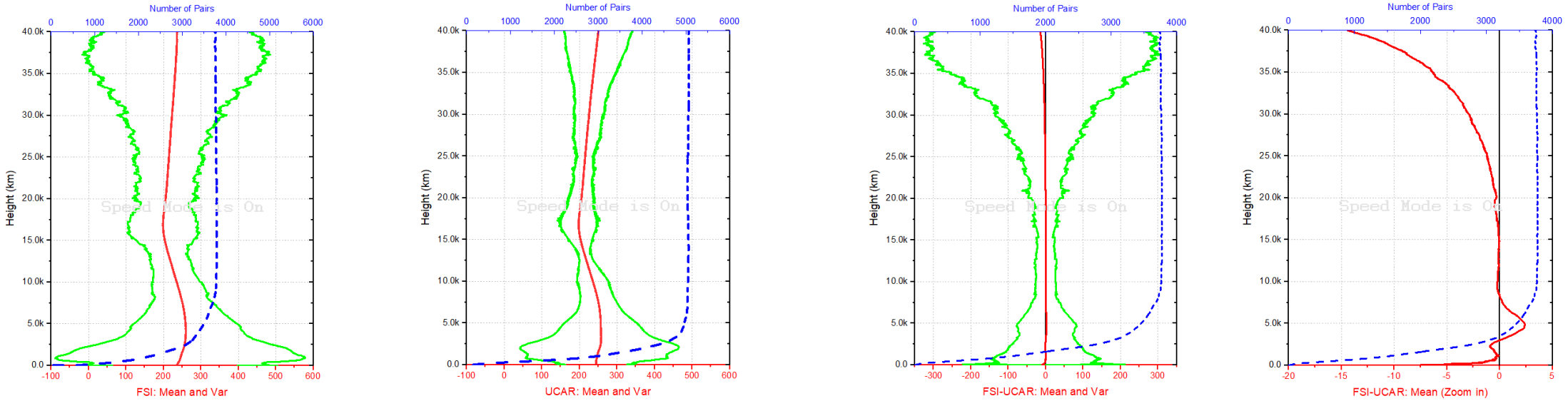
Current Work: Developing a dry temperature algorithm

- Developed a dry temperature and dry press algorithm and tested

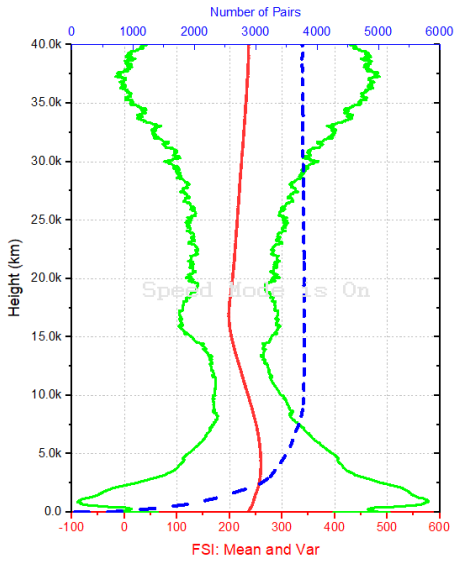


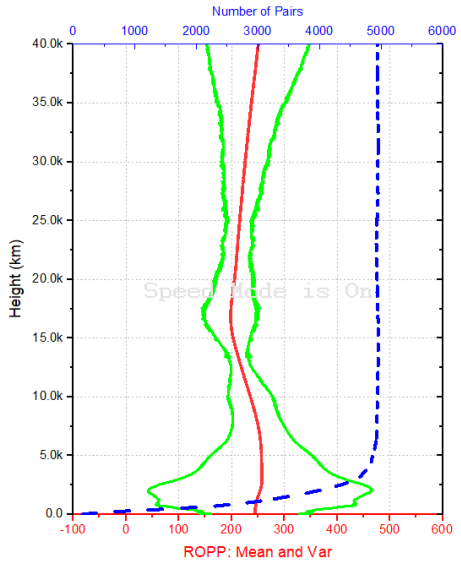


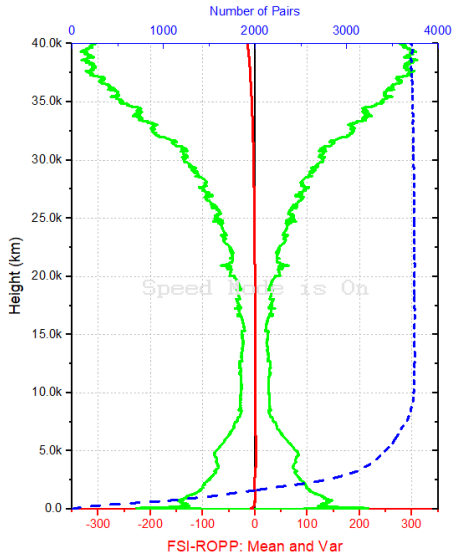
- Integrated the algorithm into FSI system and compared with UCAR's products

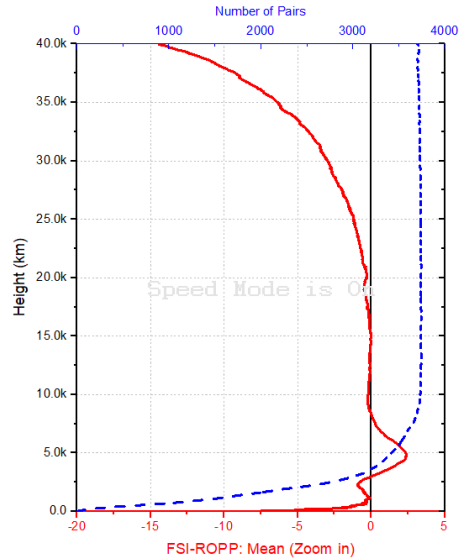


- Further compared with ROPP's products

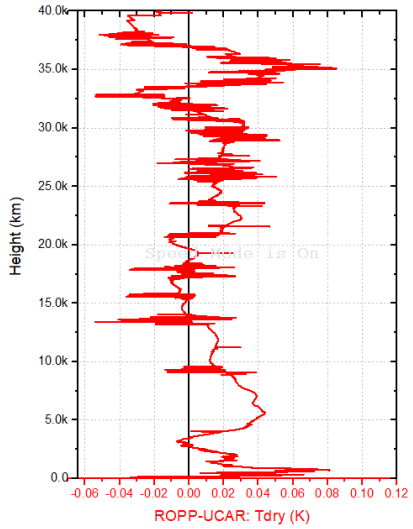








- The difference of ROPP with UCAR



- The bending angle and refractivity needs to be further improved
- Possible paper is about how to improve STAR FSI system