Supplementary Online Material

Validation of northern latitude Tropospheric Emission Spectrometer stare ozone profiles with ARC-IONS sondes during ARCTAS

C. S. Boxe,[1] J. R. Worden,[1] S. S. Kulawik,[1] K. W. Bowman,[1] W. C. Ford,[2] J. L. Neu,[1] G. B. Osterman,[1] R. L. Herman,[1] A. Eldering,[1] D. W. Tarasick,[3] A. M. Thompson,[4] D. C. Doughty,[4] M. R. Hoffmann,[5] and S. J. Oltmans,[6]

[1]Earth and Space Science Division, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA
[2]Computation and Neural Systems, California Institute of Technology, 1200 East California Boulevard, Pasadena, CA 91125
[3]Experimental Studies, Air Quality Research Division, Environment Canada, Downsview, Ontario, CA
[4]Department of Meteorology, Pennsylvania State University, University Park, Pennsylvania, USA
[5]Environmental Science and Engineering, California Institute of Technology, 1200 East California Boulevard, Pasadena, CA 91125
[64]NOAA Earth System Research Laboratory, Boulder, Colorado, USA

*****Manuscript Correspondence, e-mail: christopher.boxe@jpl.nasa.gov

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This PDF file includes:

Supplementary TES-Sonde Comparison Plots for the TES V003 and V004 Ozone Product

Figure 1 (a) V003 Data

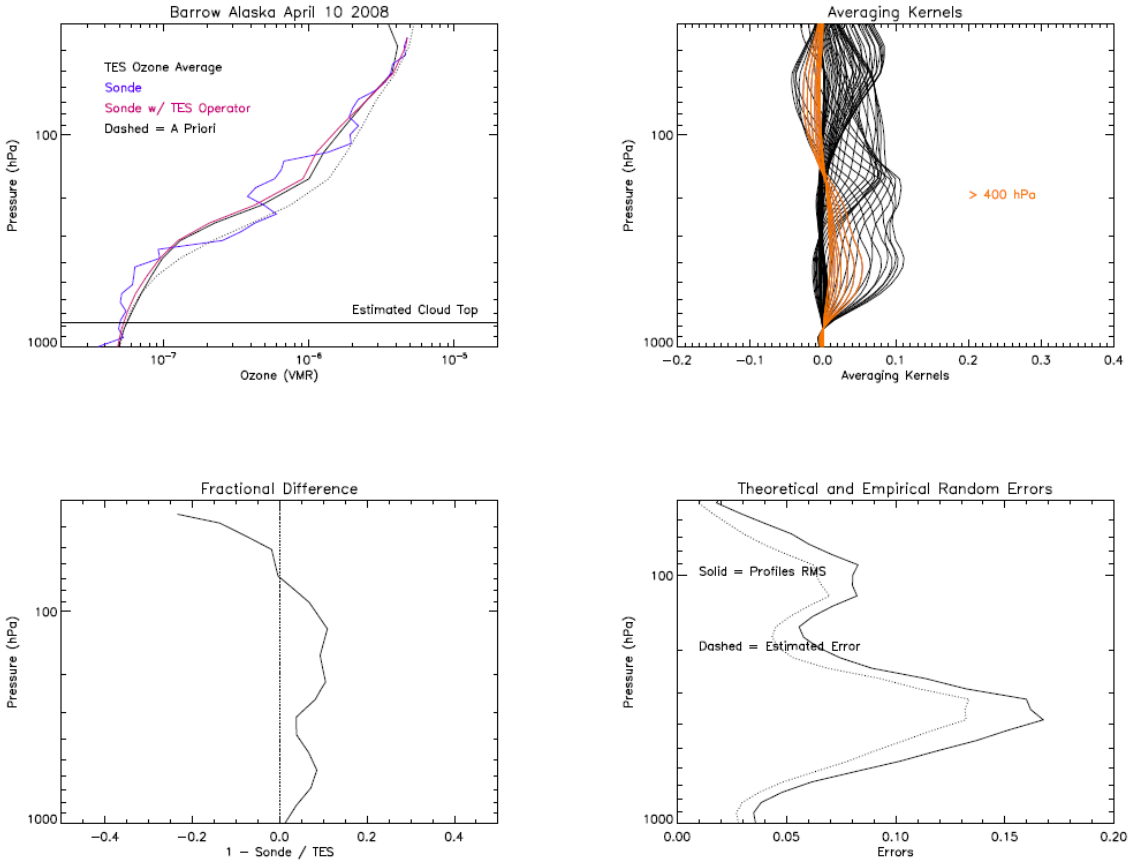
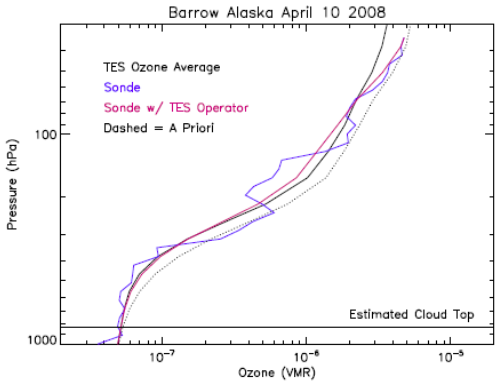
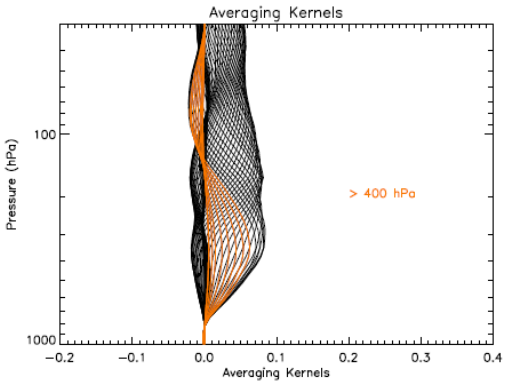
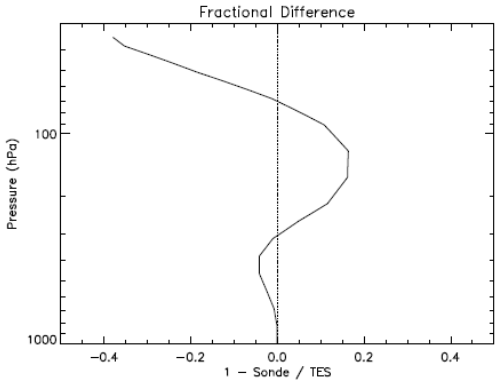


Figure 1 (b) V004 Data







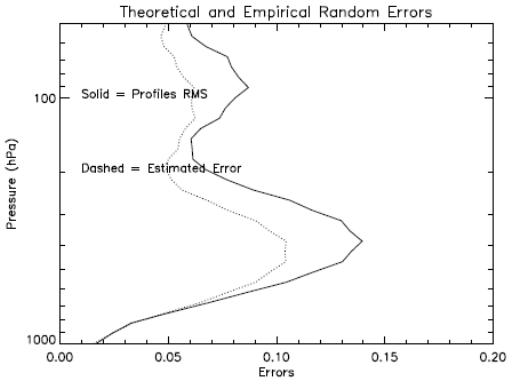


Figure 2 (b) V003 Data

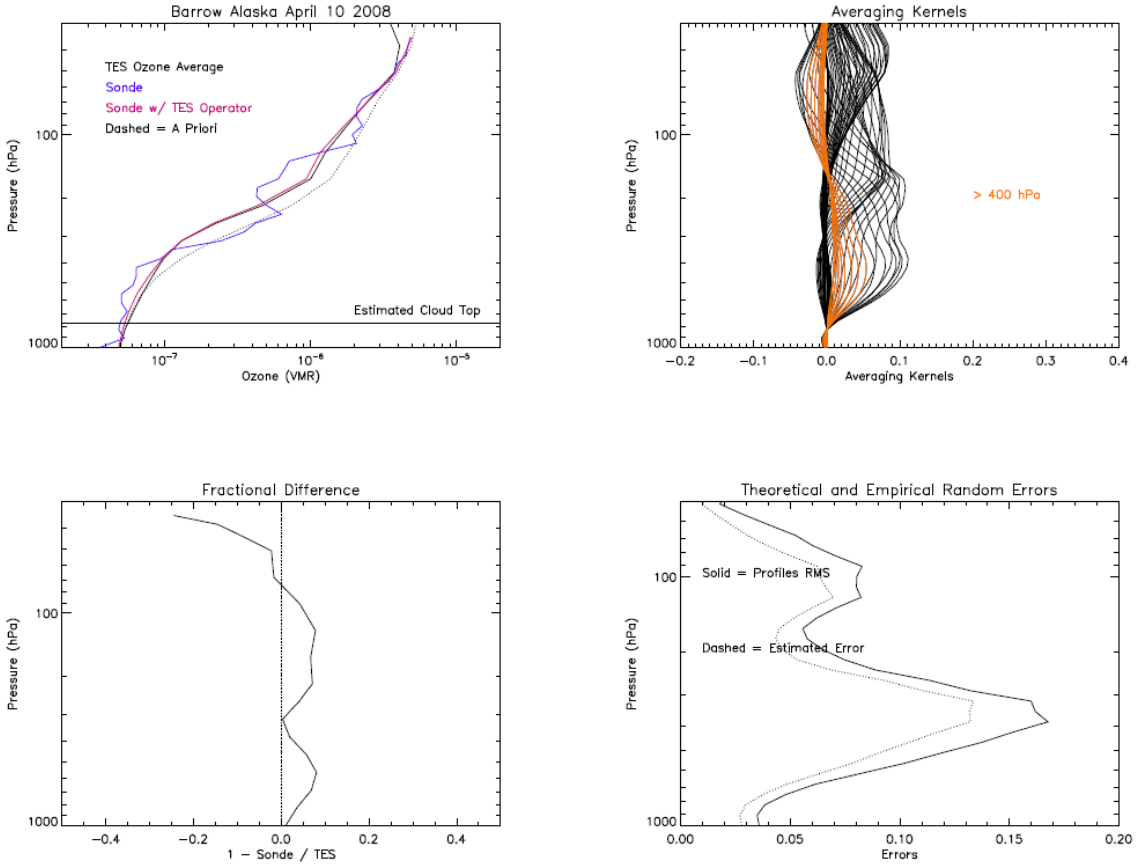
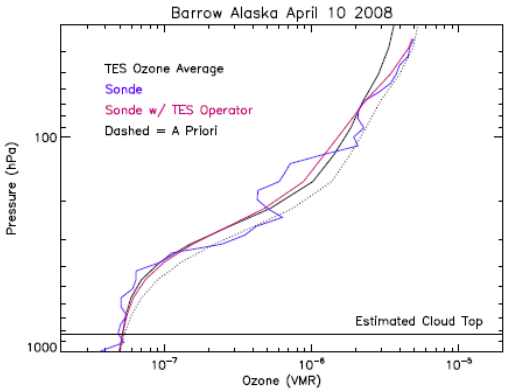
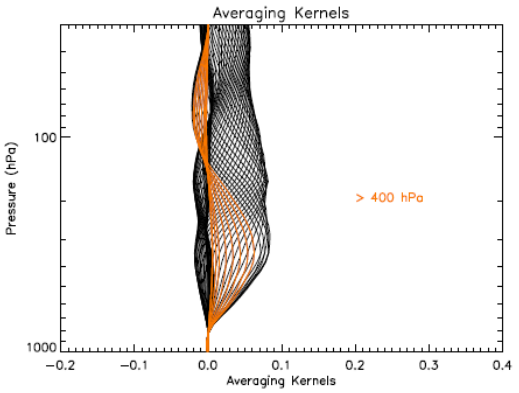
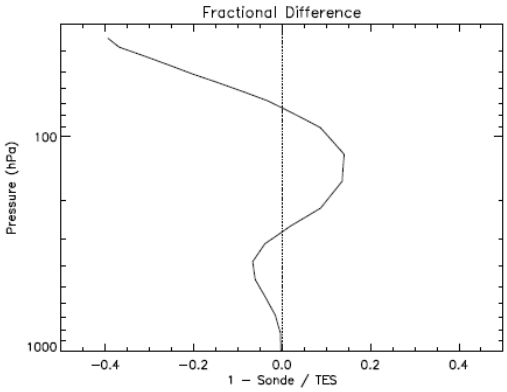


Figure 2 (b) V004 Data







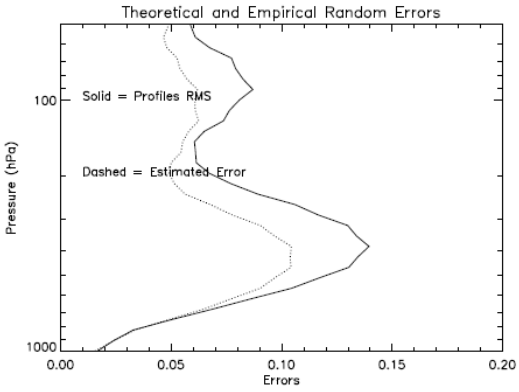


Figure 3 (a) V003 Data

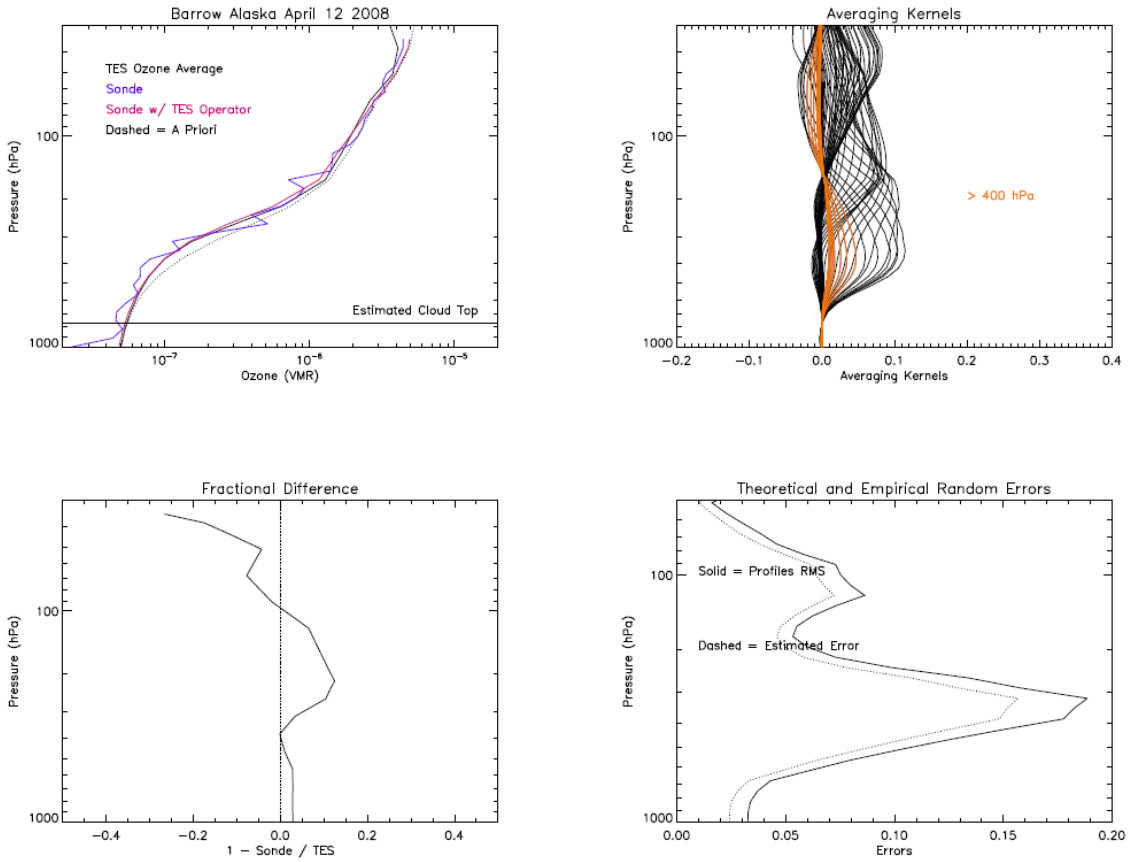
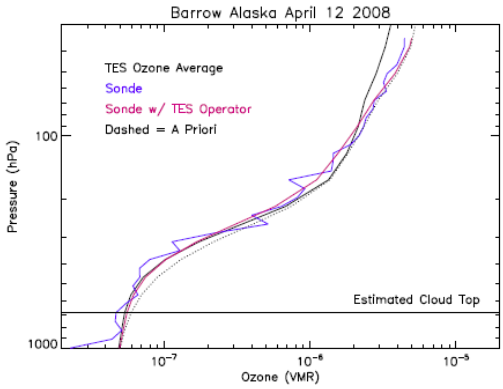
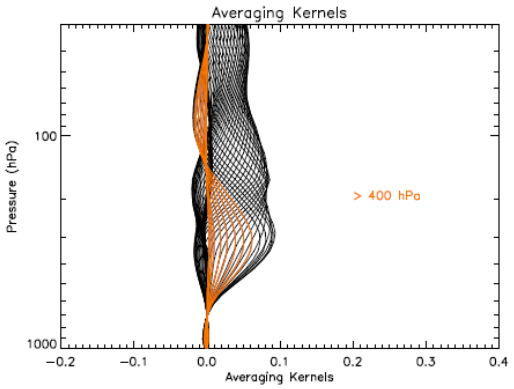
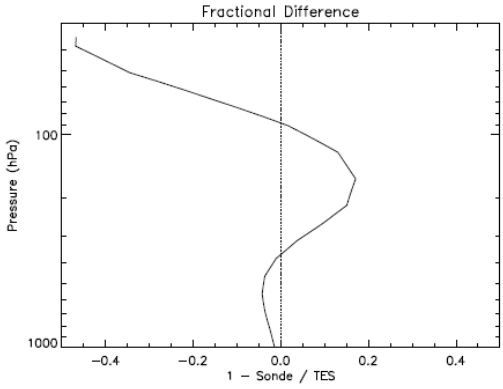


Figure 3 (b) V003 Data







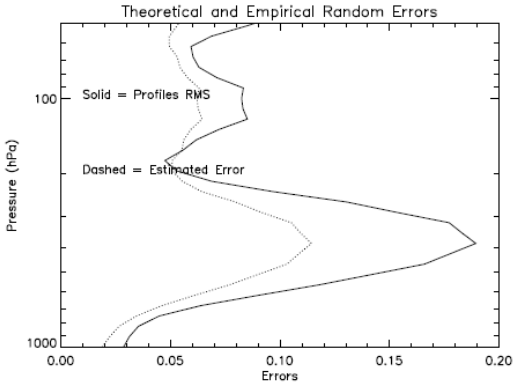


Figure 4 (a) V003 Data

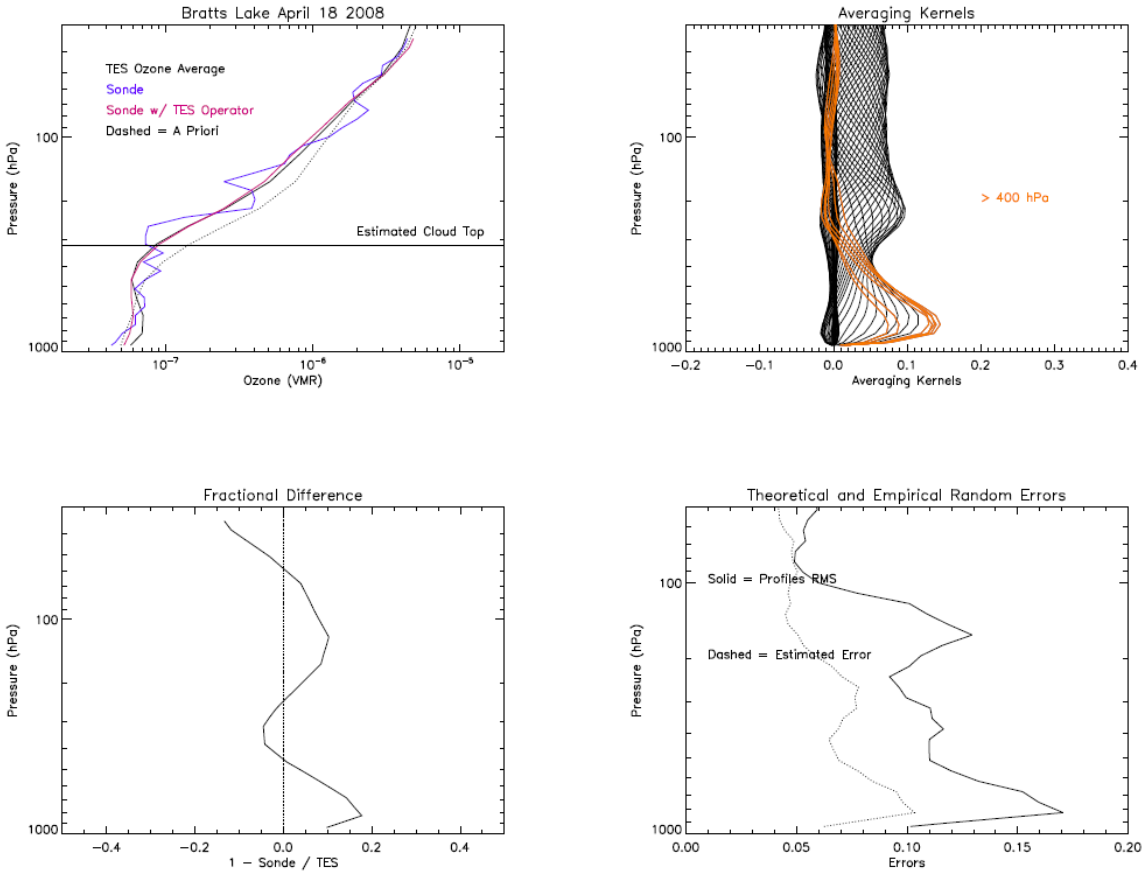
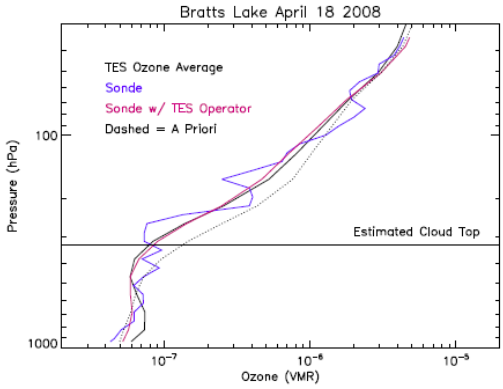
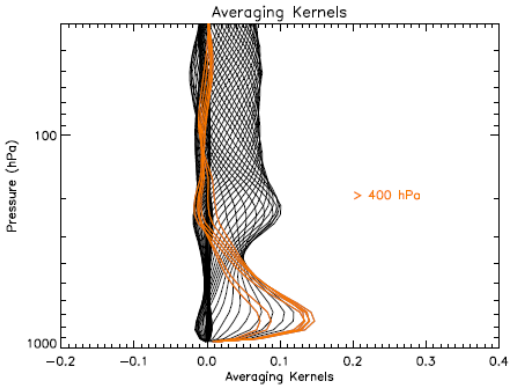
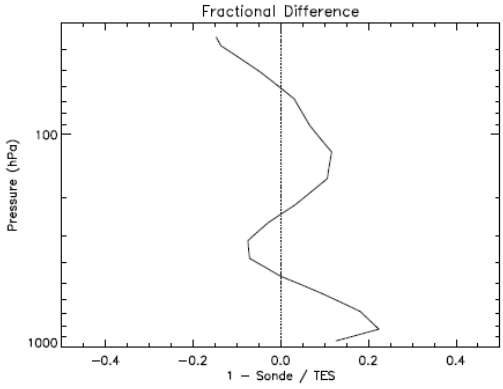


Figure 4 (b) V004 Data







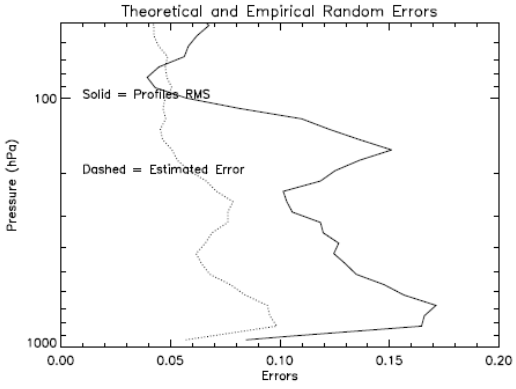


Figure 5 (a) V003 Data

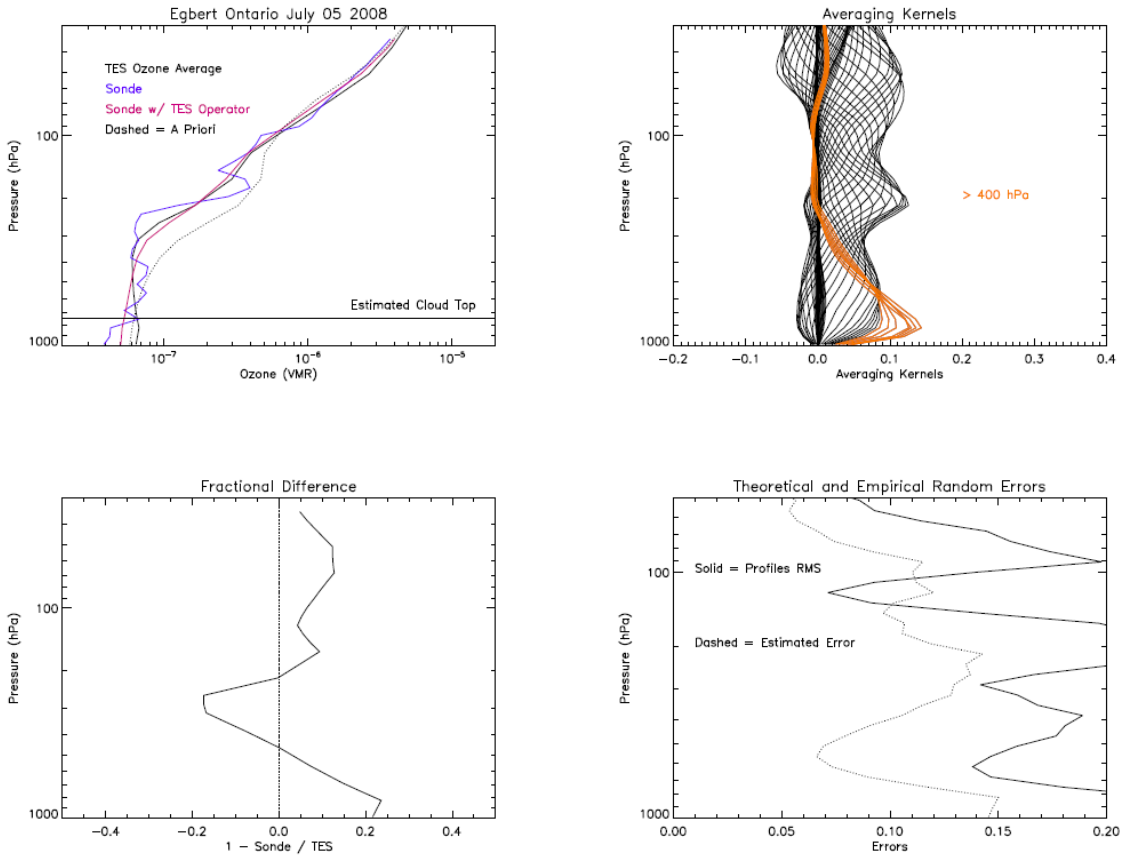


Figure 5 (b) V004 Data

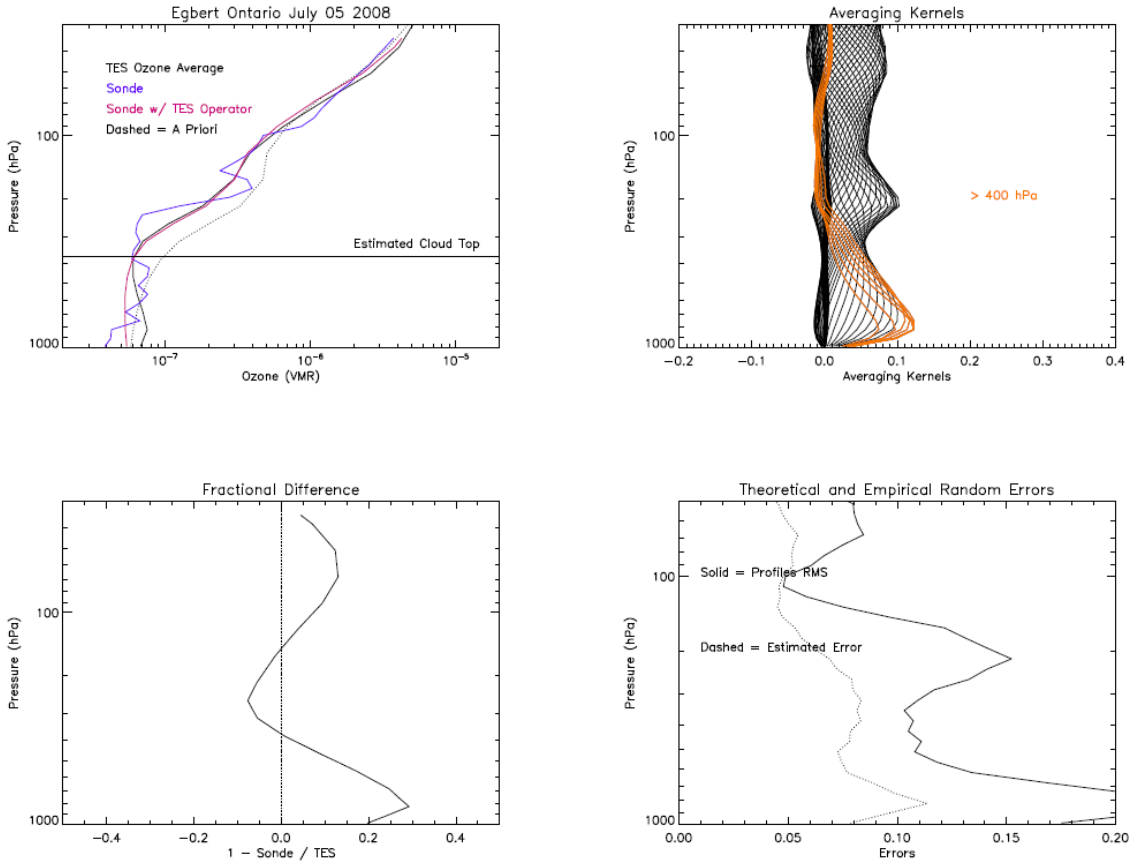


Figure 6 (a) V003 Data

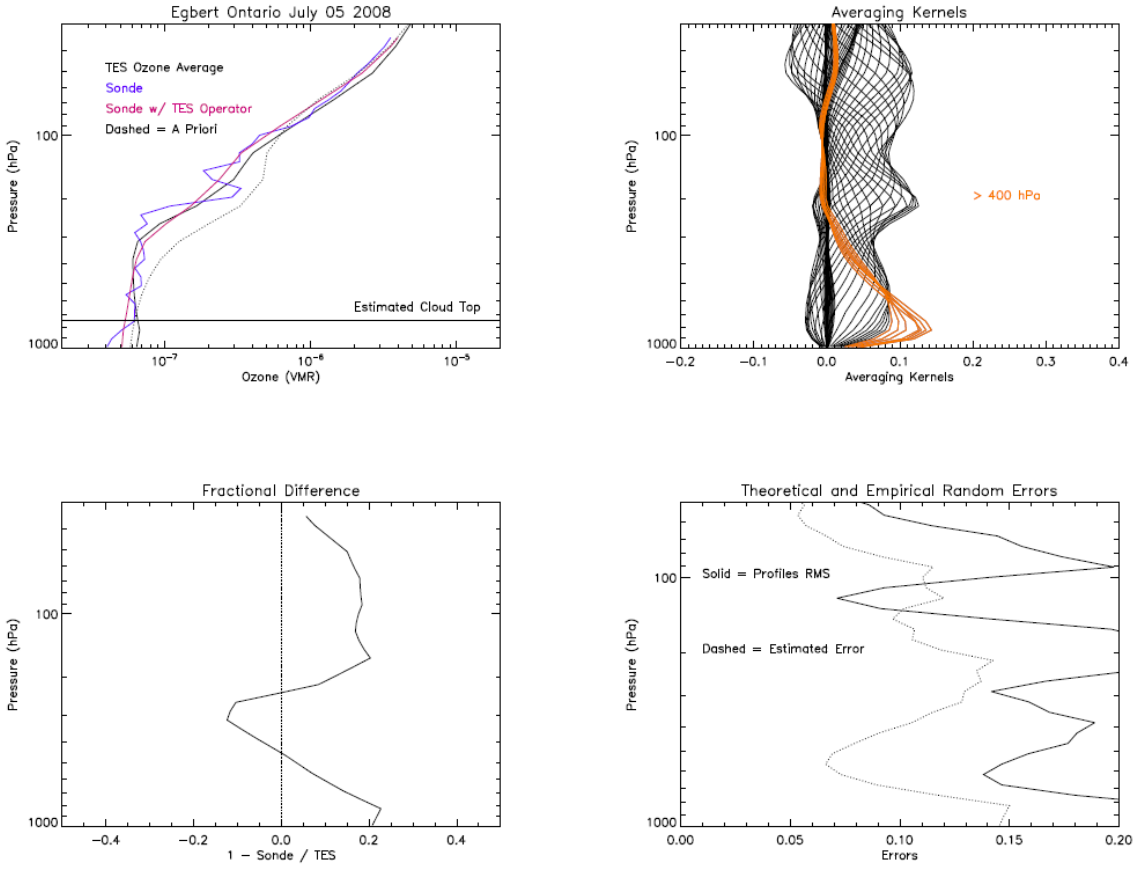


Figure 6 (b) V004 Data

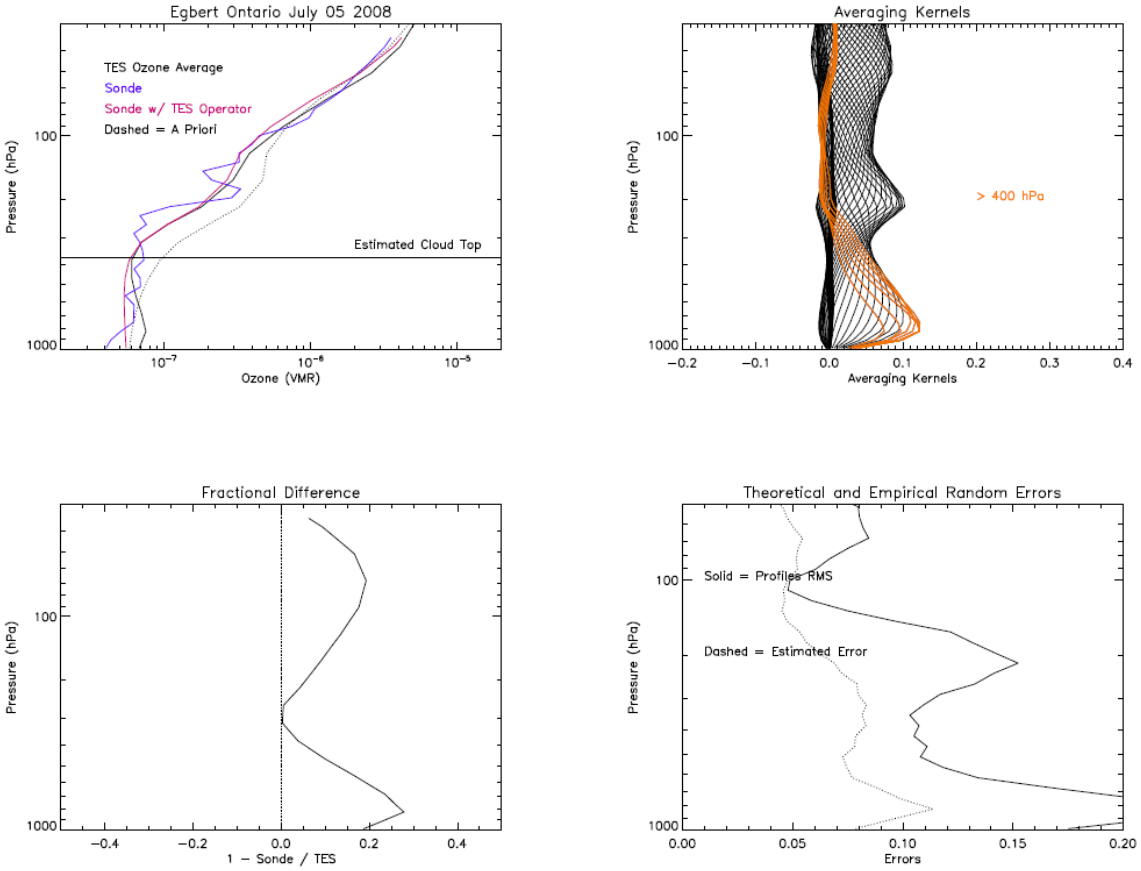


Figure 7 (a) V003 Data

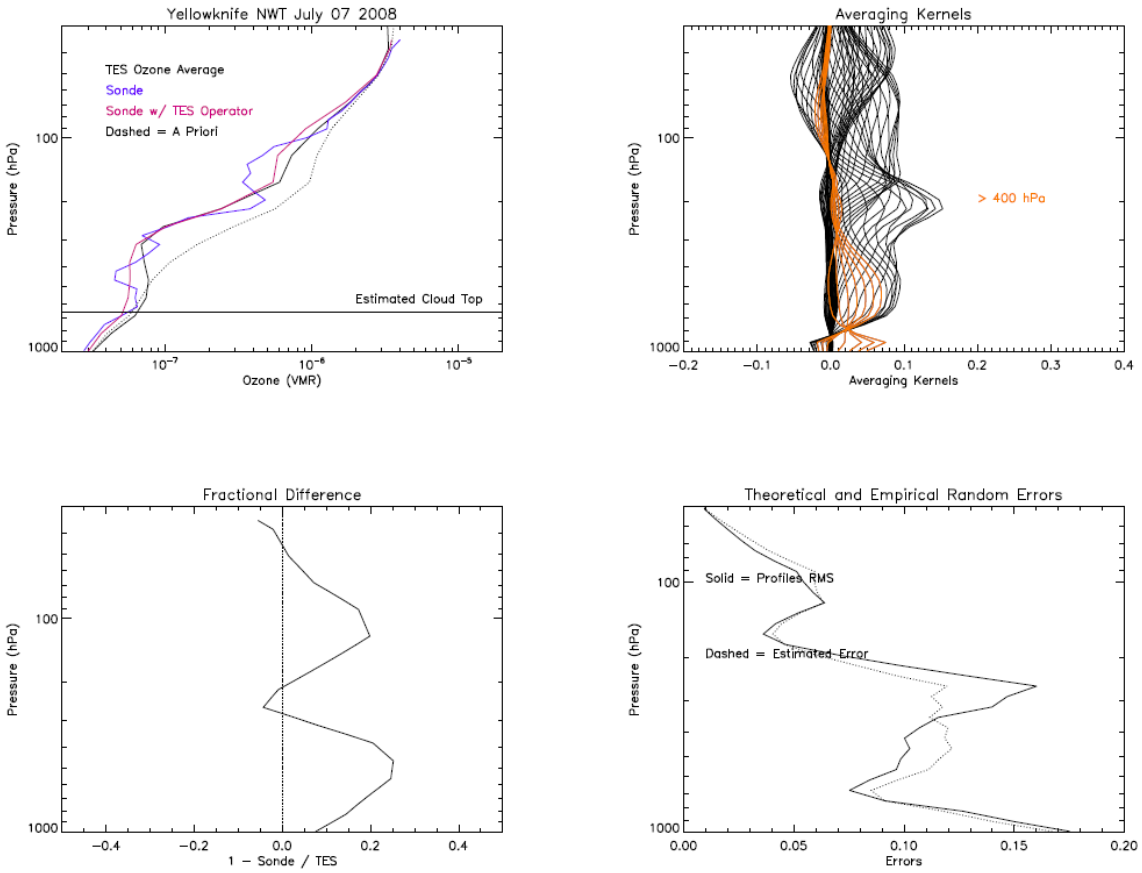
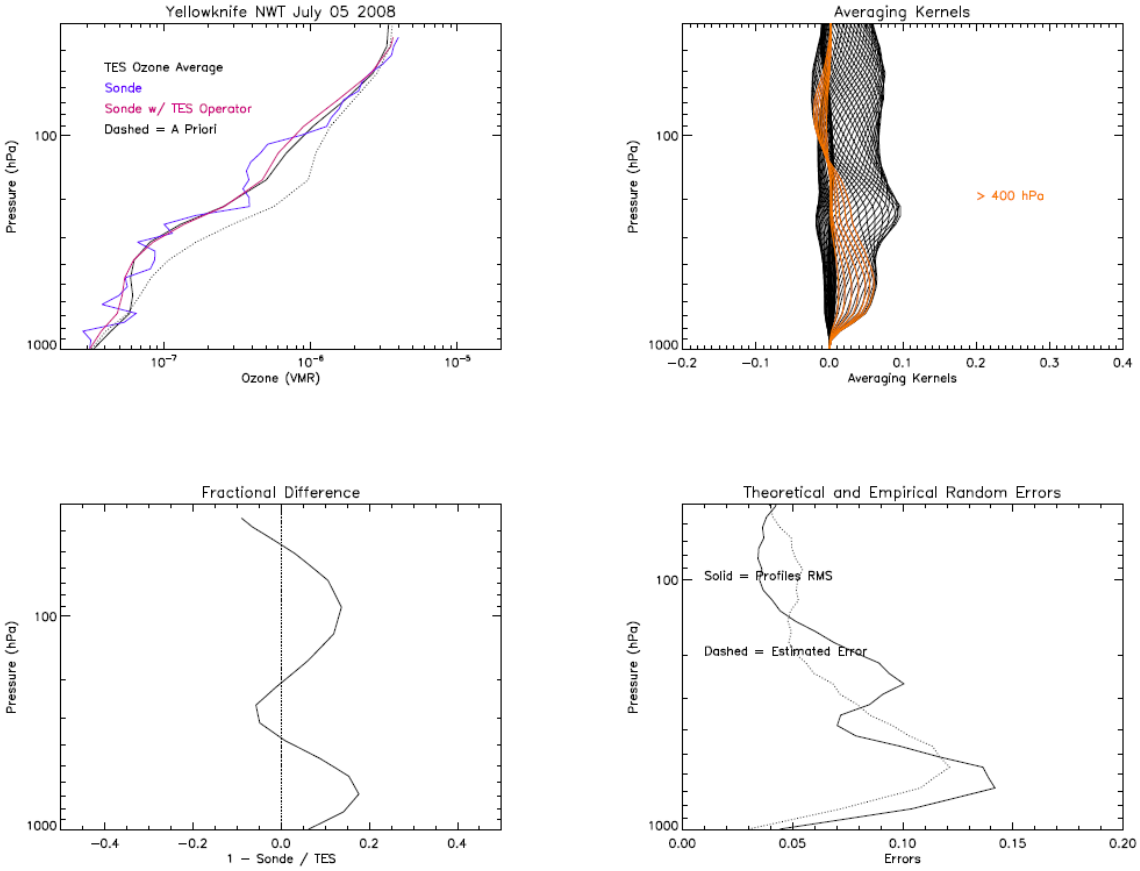


Figure 7 (b) V004 Data



Captions

Figure 1. The TES-stare sequence on April 10th, 2008 over Barrow started at 21:58 (UTC), and the ozonesonde on that day at Barrow was launched at 22:35 (UTC), using V003 **(a)** and V004 **(b)** TES data.

Figure 2. The TES-stare sequence on April 10th, 2008 over Barrow started at 22:55 (UTC), and the ozonesonde on that day at Barrow was launched at 22:35 (UTC), using V003 **(a)** and V004 **(b)** TES data.

Figure 3. The TES-stare sequence on April 12th, 2008 over Barrow started at 20:35 (UTC), and the ozonesonde on that day at Barrow was launched at 22:26 (UTC), using V003 **(a)** and V004 **(b)** TES data.

Figure 4. The TES-stare sequence on April 18th, 2008 over Bratt's Lake started at 19:52 (UTC), and the ozonesonde on that day at Bratt's Lake was launched at 20:04 (UTC), using V003 **(a)** and V004 **(b)** TES data.

Figure 5. The TES-stare sequence on July 5th, 2008 over Egbert started at 18:36 (UTC), and the ozonesonde on that day at Egbert was launched at 18:35 (UTC), using V003 **(a)** and V004 **(b)** TES data.

Figure 6. The TES-stare sequence on July 5th, 2008 over Egbert started at 21:52 (UTC), and the ozonesonde on that day at Egbert was launched at 18:35 (UTC), using V003 **(a)** and V004 **(b)** TES data.

Figure 7. The TES-stare sequence on July 7th, 2008 over Yellowknife started at 17:50 (UTC), and the ozonesonde on that day at Yellowknife was launched at 20:06 (UTC), using V003 **(a)** and V004 **(b)** TES data.