1. INTRODUCTION

Air temperature thermal differences HIRS/NOAA-16 and -17 are highly significant as well as sounding upward. Not only does this make up for the differences in instrument performance as well as soundings applied.

2. METHOD

- **Simultaneous radiance observations** between AIRS/Aqua and HIRS/NOAA-16 & 17 from March 11, 2003 to October 31, 2003 is the primary focus.

3. RESULTS

- **Simultaneous nadir observations** allow us to better characterize the instrument performance as well as sounding upward.

4. DISCUSSION

- **Cross sensor radiance comparison** between the hyperspectral AIRS and the multispectral HIRS...