2012 Workshop: FPI Workshop

Long title
FPI Measurements of Neutral Winds and Temperatures in the Upper Atmosphere
Conveners
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Description

In the past few years, a number of FPI instruments have been deployed that are making wind and temperature measurements of the upper atmosphere. This workshop will bring together individual researchers operating FPIs or using FPI measurements to exchange ideas on how these measurements are being made and provide a venue to discuss future plans for FPI measurements of neutral dynamics.

Justification

The measurement of winds and temperatures is fundamental to our understanding of the structure and variability of the atmosphere. The Fabry-Perot Interferometer (FPI) is a unique instrument for measuring atomic line profiles of low-light emission from the upper atmosphere with a long heritage in upper atmosphere observations. The application of the interferometer to atmospheric emissions such as aurora and airglow offers an opportunity for remote sensing of atmospheric wind and temperature from the ground and in space. This workshop solicits contributions on studies involving observations and modeling of neutral winds and temperatures from ground-based FPIs. This workshop is intended to provide an opportunity for discussing recent FPI measurements, new instrument development, and modeling of neutral winds and temperatures.

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