

BOES imaging performance variation using FWHM of ThAr reference spectra

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We report an investigation of BOES imaging performance variation against observational variables. Average FWHM of the ThAr reference spectra recorded in 10 spectral image frames observed during the night of January 5th, 2004 was computed. The averaged FWHM data was then correlated with observational variables including telescope altitude, air mass, focus position, exposure time, detector temperature, gain settings and S/N ratio. The full computational details, results and implications are presented.