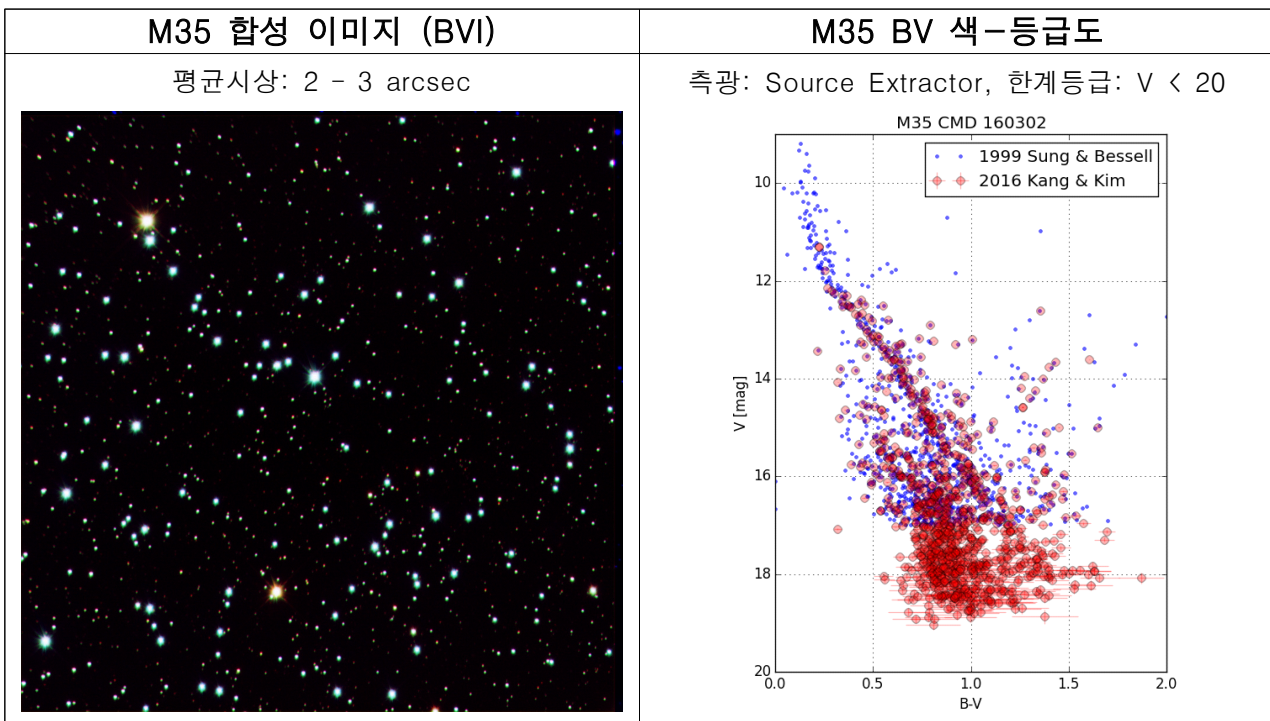


NYSC 1M 원격제어망원경 소개자료

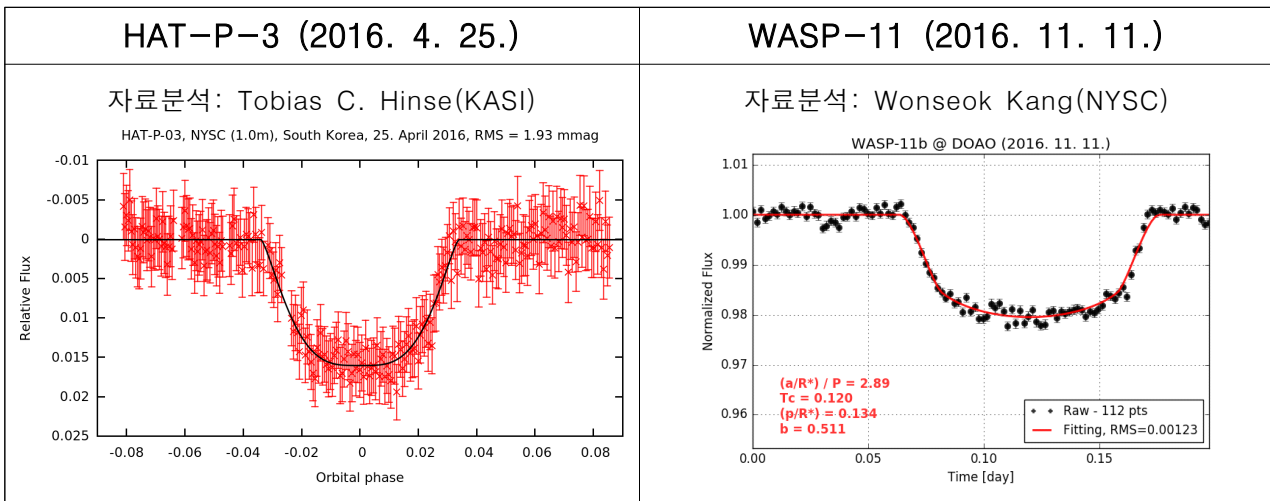
○ NYSC 1M 원격제어 망원경 사양

- 광학계: 주경 $D = 1000\text{mm}$, F-ratio = 8.0, Focal length = 8000 mm
- CCD (PI SOPHIA-2048B): 2048×2048 pixels ($15\mu\text{m}$), $30.7\text{mm} \times 30.7\text{mm}$
- Field of View = 13.2×13.2 arcmin² (pixel scale = 0.387 arcsec/pix)
- 분광기: Shelyak eShel Spectrograph, $R \sim 10,000$, $\lambda \sim 4000 - 7500 \text{ \AA}$







○ M35 산개성단 측광 (2016. 3. 2.)



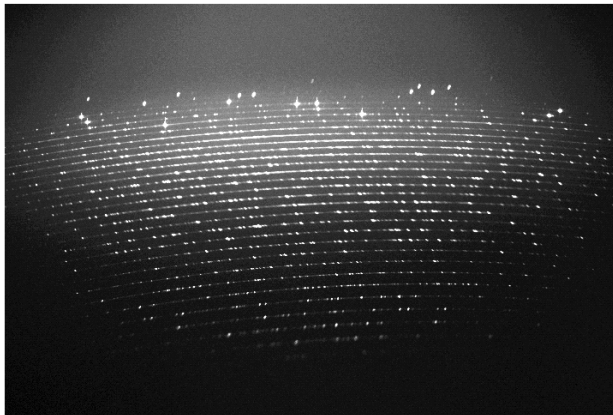
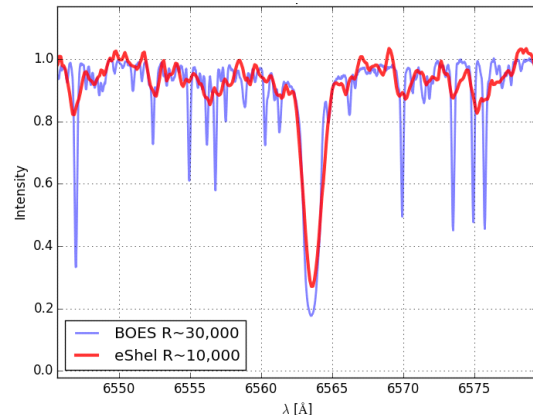
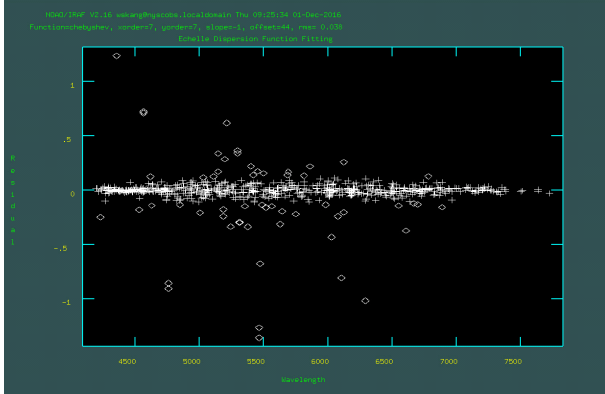
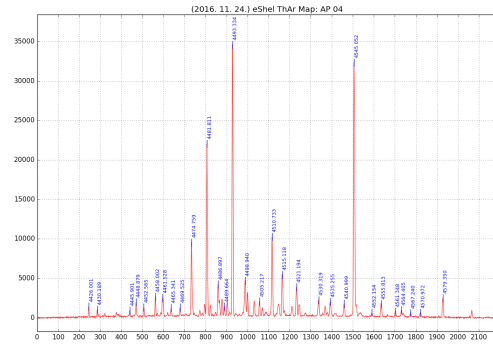
○ 외계행성 식현상 관측



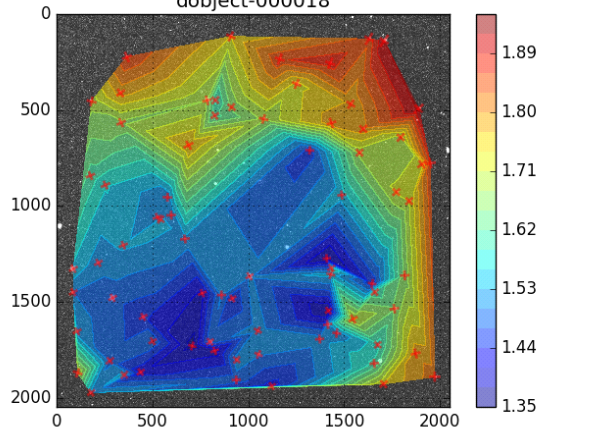
○ Deepsky 이미징 관측

<p data-bbox="395 264 555 295">M1 게성운</p>  A deep-sky image of the Crab Nebula (M1), showing a complex, filamentary structure of glowing gas in shades of red and blue, set against a field of stars.	<p data-bbox="1018 264 1209 295">M3 구상성단</p>  A deep-sky image of the Hercules Globular Cluster (M3), showing a dense concentration of stars in various colors (blue, yellow, red) with a bright central core.
<p data-bbox="363 871 587 902">M101 나선은하</p>  A deep-sky image of the Whirlpool Galaxy (M101), showing a bright central core and prominent spiral arms, with some reddish emission lines visible.	<p data-bbox="1002 871 1225 902">M27 행성상성운</p>  A deep-sky image of the Ring Planetary Nebula (M27), showing a bright, ring-like structure of glowing gas in shades of cyan and magenta, surrounded by a field of stars.
<p data-bbox="395 1478 555 1509">NGC6888</p>  A deep-sky image of the Circlet Nebula (NGC 6888), showing a complex, multi-lobed structure of glowing gas in shades of cyan and magenta, set against a field of stars.	<p data-bbox="1002 1478 1225 1509">M16 독수리성운</p>  A deep-sky image of the Eagle Nebula (M16), showing a complex, multi-lobed structure of glowing gas in shades of cyan and magenta, with a prominent dark dust lane, set against a field of stars.

○ 분광 스펙트럼

<p style="text-align: center;">Th-Ar Lamp 이미지</p> <p style="text-align: center;">eShel 분광기 원본 이미지</p> 	<p style="text-align: center;">Pollux 스펙트럼</p> <p style="text-align: center;">노출시간: 1000초(구름), 자료처리: IRAF</p> 
<p style="text-align: center;">파장동정 결과 (2016. 11. 24.)</p> <p style="text-align: center;">RMS ~ 0.03 angstrom</p>	<p style="text-align: center;">Th-Ar 파장동정 Map 예시 (AP01)</p>
	<p style="text-align: center;">AP01 - AP25 (25개 apertures)</p> 

○ 이미지 성상 및 추적 성능 자료

<p style="text-align: center;">이미지 성상 분석 자료(2016.7.14.)</p> <p style="text-align: center;">평균 FWHM ~ 1.62 arcsec (best)</p>	<p style="text-align: center;">Auto-guiding 성능 자료(2016.7.14.)</p>
<p style="text-align: center;">object-000018</p> <p style="text-align: right; color: red;"><FWHM>=1.62±0.16</p> 	<p style="text-align: center;">RMS < 0.5 arcsec (in ~500 sec)</p> <p style="text-align: center;">Tracking result 160714 (Autoguiding)</p> 