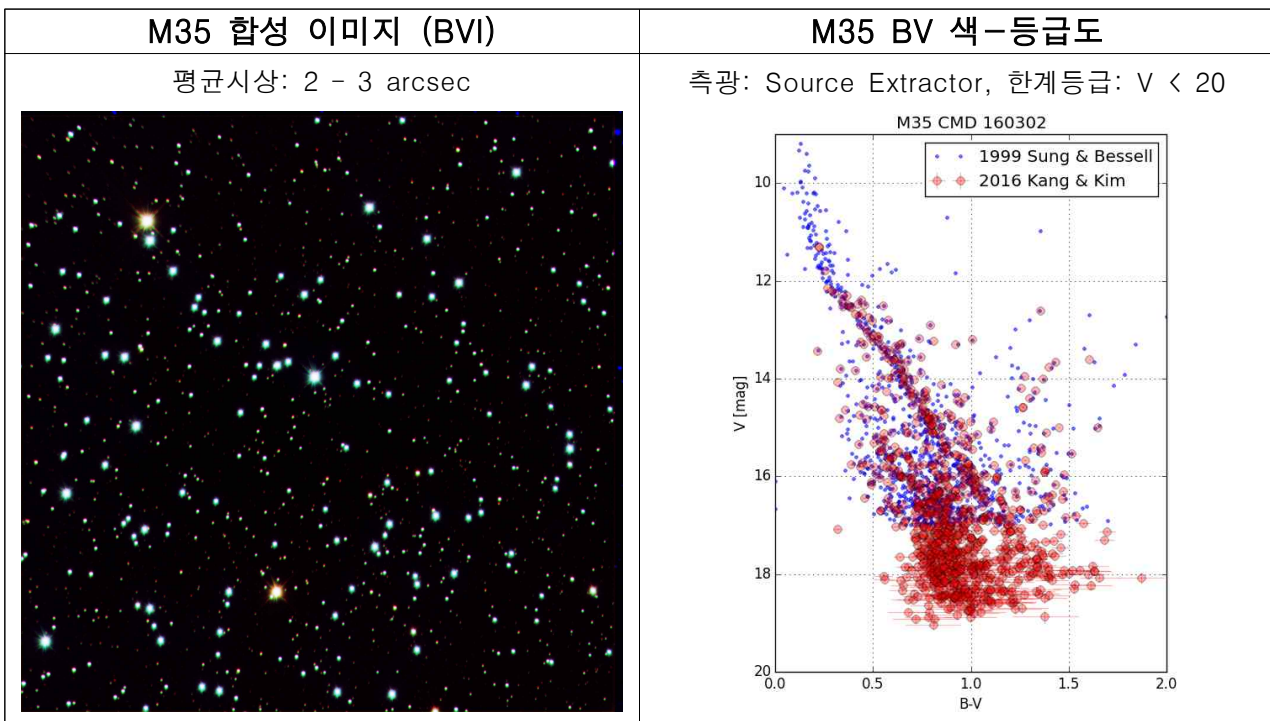


# NYSC 1M 원격제어망원경 소개자료

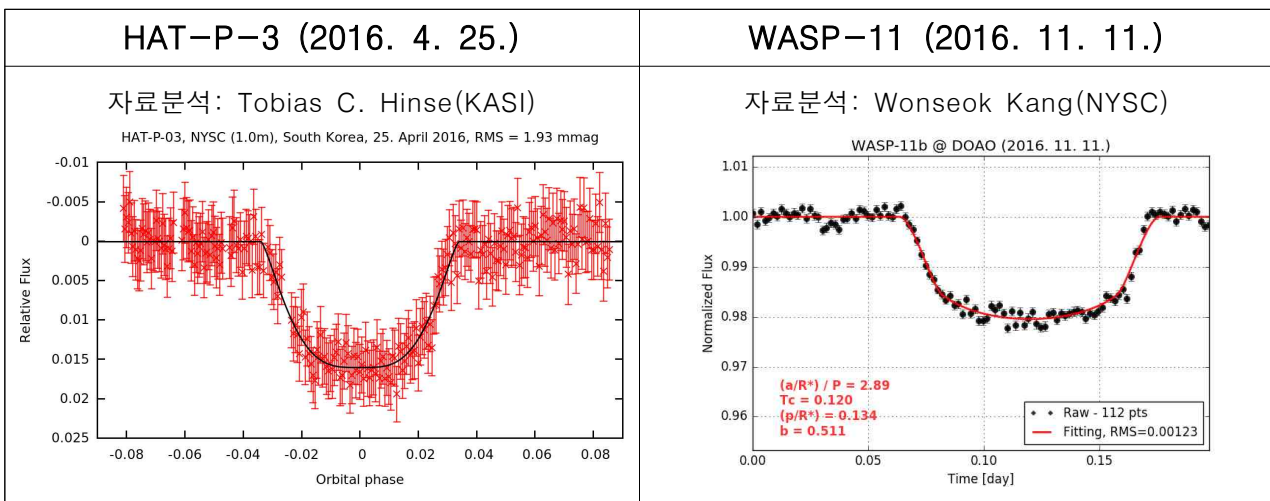
## ○ 1M 망원경 사양

- 광학계: 주경 D = 1000mm, 부경 D = 250mm, F-ratio = 8.0
- CCD (FLI ProLine-16803): 4096×4096 pixels (9 $\mu$ m), 36mm×36mm
- Field of View = 15.8×15.8 arcmin<sup>2</sup>
- 분광기: Shelyak eShel Spectrograph, R~10,000,  $\lambda$  ~ 3000 - 8000 Å




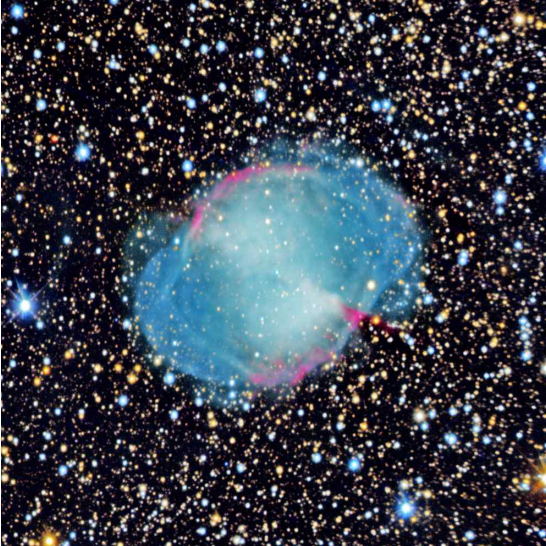

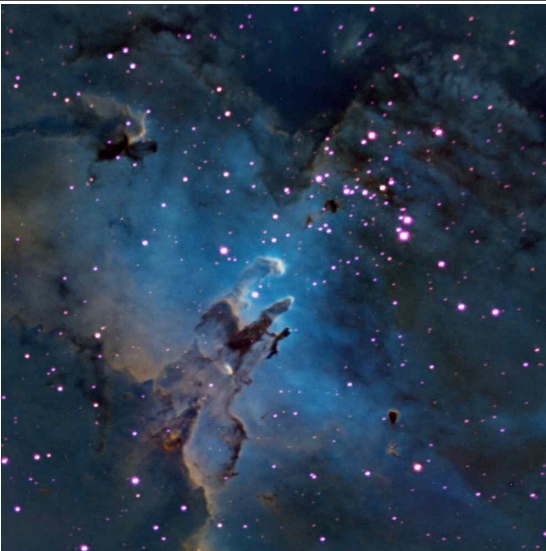
## ○ M35 산개성단 측광 (2016. 3. 2.)



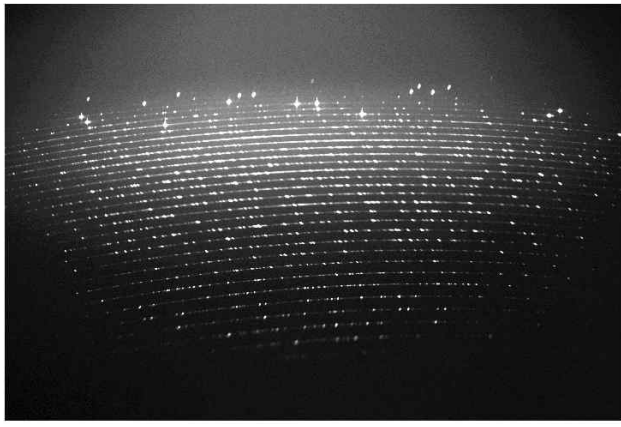
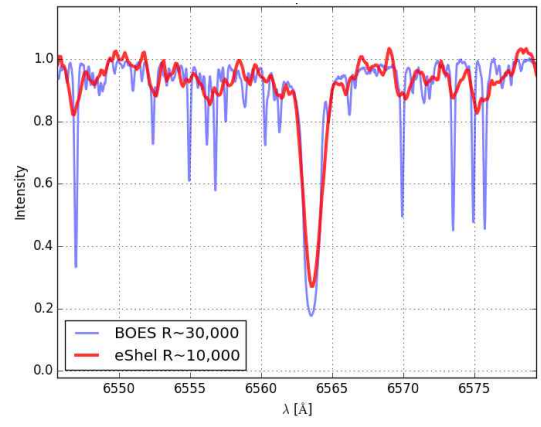
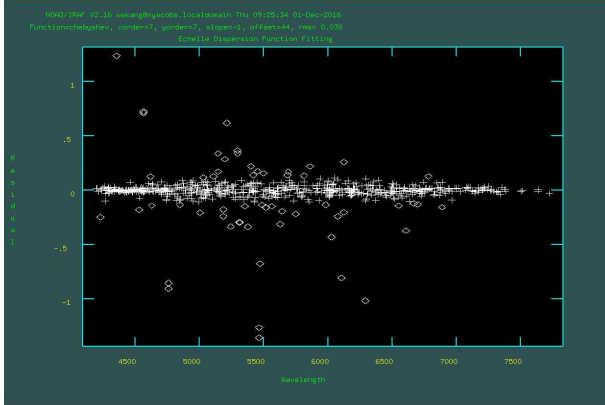
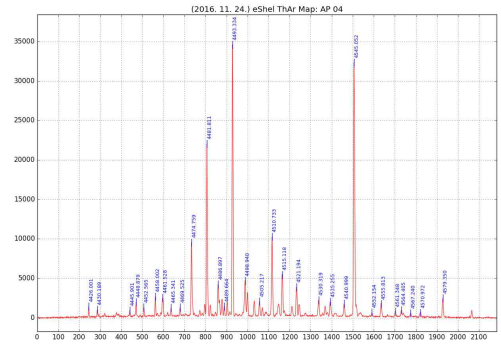
## ○ 외계행성 식현상 관측



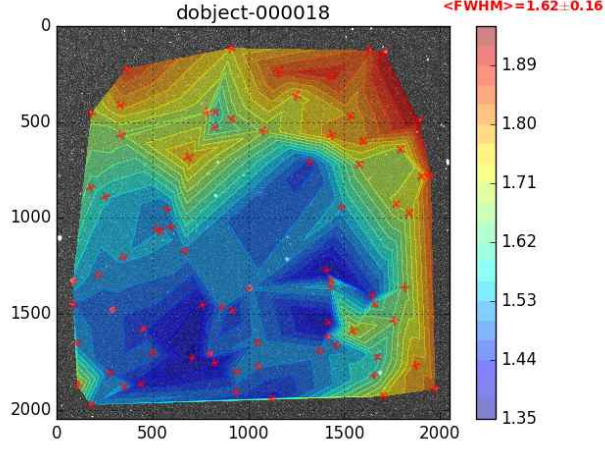
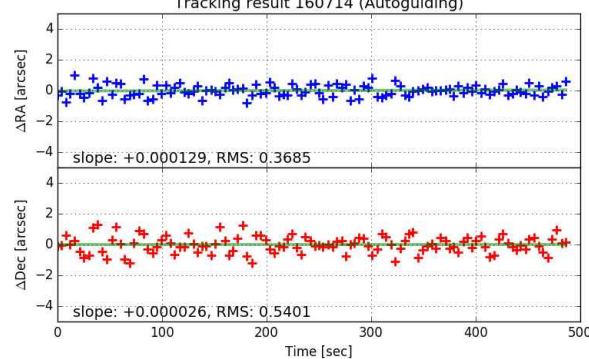
○ Deepsky 이미징 관측

<p data-bbox="391 257 550 302">M1 게성운</p>  A deep-sky image of the Crab Nebula (M1), showing a complex, multi-colored structure of filaments in shades of red, orange, and blue, set against a dark background of stars.	<p data-bbox="1013 257 1204 302">M3 구상성단</p>  A deep-sky image of the M3 globular cluster, showing a dense concentration of stars in various colors (blue, yellow, red) with a bright, white core.
<p data-bbox="359 862 582 907">M101 나선은하</p>  A deep-sky image of the Whirlpool Galaxy (M101), showing a bright, yellowish-white core and a prominent, blue-tinted spiral structure.	<p data-bbox="981 862 1236 907">M27 행성상성운</p>  A deep-sky image of the Ring Nebula (M27), showing a bright, blue-green ring-like structure with a pinkish-red center, set against a dark background of stars.
<p data-bbox="391 1467 550 1512">NGC6888</p>  A deep-sky image of the Circlet Nebula (NGC 6888), showing a bright, blue-green ring-like structure with a pinkish-red center, set against a dark background of stars.	<p data-bbox="981 1467 1236 1512">M16 독수리성운</p>  A deep-sky image of the Eagle Nebula (M16), showing a complex, multi-colored structure of filaments in shades of blue, green, and purple, set against a dark background of stars.

○ 분광 스펙트럼

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

○ 성상 분석 및 auto-guiding 자료

<p style="text-align: center;"><b>이미지 성상 분석 자료</b></p> <p style="text-align: center;">평균 FWHM ~ 1.62 arcsec (best)</p> <p style="text-align: center;">object-000018 <span style="color: red;">&lt;FWHM&gt;=1.62±0.16</span></p> 	<p style="text-align: center;"><b>Auto-guiding 성능 자료</b></p> <p style="text-align: center;">RMS &lt; 0.5 arcsec</p> <p style="text-align: center;">Tracking result 160714 (Autoguiding)</p> 
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