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Southern deep-field monitoring and northern all-sky follow-up: PLATO plans at AIP

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We will provide two robotic facilities dedicated to PLATO science. The southern-hemisphere facility is a 30cm wide-field CCD imaging photometer at Cerro Armazones in Chile sampling a FOV of 52 square degrees with 2.5 arc second pixels. It will start full robotic operation in 2023/24 and aims for continuous monitoring of the PLATO southern deep field for 200 nights per year. The northern-hemisphere facility is the 2×1.2m STELLA robotic telescope observatory in Tenerife. By 2024, STELLA-II will feed three R=50,000 echelle spectrographs for the wavelength range 380—980nm simultaneously. The visual spectrograph is stabilized and suited for RV precision of 1-2 m/s, the blue spectrograph will monitor Ca II H&K, and the red-optimized spectrograph the near infrared spectrum with lowered RV stability but high throughput. In this presentation, we present the current and planned status of both facilities and sketch the future observing capabilities for PLATO follow-up.

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