Highlights from the Sunrise III 2024 Campaign

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The Sunrise III 2024 flight was highly successful. Over the course of a 6.5-day journey in the stratosphere, departing from Kiruna, Sweden, and arriving in northwestern Canada, the balloon-borne solar observatory captured a diverse range of solar targets at the diffraction limit of its 1-meter telescope. Three instruments operated in synchronized mode to collect spectropolarimetric data in the near-UV (Sunrise UV Spectropolarimeter and Imager, SUSI), the visible (Tunable Magnetograph, TuMag), and the near-IR (Sunrise Chromospheric Imager and Polarimeter, SCIP). In this poster, we present a first glimpse into the high quality and variety of the data obtained: SUSI reveals 50-kilometer-sized structures in the solar photosphere, TuMag showcases a selection of the numerous targets observed, and SCIP demonstrates the high polarimetric sensitivity in generating maps of both the photosphere and chromosphere.