

RAPAS 2026 (Réseau Amateurs Professionnels pour les Alertes Scientifiques)

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The RAPAS ProAm collaborations funded since 2022 by the multiyear ProAm Initiative of Paris Observatory, is synthesizing here the activities made and the planned actions in the coming years. Two optical filter batches have been manufactured in 2022 and 2024 allowing about 50 amateur telescopes to deliver magnitude measurement in the Gaia Photometric systems (Gaia G, Gbp and Grp bands). In 2024, Astro-COLIBRI team developed an alert selection process dedicated to RAPAS. We performed the first run of the photometric measurements to deliver G, Gbp and Grp magnitude on alerts. It allows up to now to develop a process to collect and share the magnitude data. In 2023 we have designed and purchased two low dispersion high sensitivity spectrographs. The purpose is to allow the acquisition and the monitoring of Spectral Energy Distribution (SED) of localized alerts. We describe here the design of the two Alpy200 and Star'Ex VLR prototypes with the preliminary results to check the magnitude upper limit and the effective resolution. In 2025 2 processing pipelines STDPipe and RAPAS Photometry Pipeline have been implemented to improve and unified the magnitude extraction process. For SSO and NEO Tycho-Tracker is the preferred software. The latest version includes the ability to process the data with the Gaia catalog. In 2026 thanks to the support of PADC a framework is on the way to embed pipelines and FITS up loaded process to allow then real-time access to the light curves or the FITS, or latter on to allow datamining from the astronomical communities. We will review of the 100 followed events down linked by Astro-COLIBRI in 2025 and the GCN and TNS Circulars released. Perspectives for the coming years will conclude the presentation.