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O32 - Agricultural Ethnoastronomy in Indonesia: Documenting Traditional Celestial Knowledge and Exploring Its Educational Relevance

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Across Indonesia, many communities have traditionally used celestial objects as seasonal markers to guide agricultural activities. These knowledge systems represent valuable examples of indigenous astronomical practices that connect observations of the sky with everyday life. However, rapid social and technological changes have contributed to the decline of such traditions, highlighting the need for systematic documentation and preservation.

This study documents the use of celestial objects in agricultural practices in several Indonesian communities through a review of ethnographic records and existing studies. The research identifies the celestial objects used as seasonal indicators, their associated agricultural functions, and the cultural meanings attached to them. The findings reveal that traditional sky knowledge remains an important component of local ecological knowledge and reflects long-term observations of seasonal environmental variations.

Beyond documenting these traditions, the study discusses their relevance to astronomy education and public engagement. The close connection between celestial observation, local culture, and agricultural activities offers opportunities to contextualize astronomy learning and to promote public appreciation of indigenous knowledge systems. This works contributes to ongoing discussions on cultural astronomy and highlights the potential of Indonesian ethnoastronomical knowledge as a resource for future educational and outreach activities.

Primary author: APRILIA, Aprilia

Presenter: APRILIA, Aprilia

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