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Poster
The U.S. National Science Foundation's (NSF) Global Oscillation Network Group (GONG) facility provides long term, continuous full-disk Doppler velocity, magnetic field, H-alpha and the white-light observations, supported by well-established data processing pipelines. Even after the data pipelines are fully developed and validated, scientists play a critical role in sustaining data center functionality and operational workflows. Their expertise is essential for validating automated outputs, diagnosing and resolving anomalies, and further developing new analysis techniques for improved data products. Scientists also ensure methodological consistency across the network and collaborate with operations teams to maintain data integrity in general, and especially during the repair, replacement and development of instruments. Finally, scientists demonstrate the value of data products through rigorous scientific analyses, providing important support to space weather forecasters and the wider scientific research community. In this presentation, we highlight a few specific examples where scientists have played crucial roles in sustaining the reliability, accuracy, and enhanced the scientific value of these data products.
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