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2. **ABSTRACT TITLE**

In-Flight radiometric calibration of the Multi-angle Imaging Spectro-Radiometer

3. **AUTHOR LISTING**

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4. **PRESENTATION**

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5. **ABSTRACT TEXT**

The in-flight calibration program for the EOS - AM I Multi-angle Imaging SpectroRadiometer includes on-orbit calibration, characterization of instrument properties and a calibration integrity process. One of the primary activities of the In-flight Radiometric Calibration and Characterization (IFRCC) group responsible for the MISR calibration program at the Science Computing Facility (SCF) is to produce a data file **called** the Ancillary Radiometric Product (ARP). The parameters that make up the ARP include pre-flight data and give an account of the instrument radiometric response which along with other instrument descriptors will be maintained and updated throughout

the mission. Radiance scaling and conditioning processing at the Distributed Active Archive Center (DAAC) as well as other science data product generation proceed using ARP parameters. This paper will describe the structure, content, the use of the parameters in the ARP and the context in which the ARP delivers data to DAAC processing software.

6. KEY WORDS

Radiometric calibration, EOS, MISR, IFRCC, Ancillary Radiometric Product

7. BRIEF BIOGRAPHY

Robert M. Woodhouse received a BS in Physics (1968), the MS in Biology (1974) from Northern Illinois University and a Ph.D. in Biology (1978) from Arizona State University. He has an extensive post-graduate education and his experience includes the application of engineering techniques to problem resolution in biological systems, micrometeorological data analysis and remote sensing algorithm development. He has broad experience in software development, performing millimeter wave radar analysis, trajectory and orbit analysis, IR signature analysis, and data analysis techniques using Kalman filtering. He has also provided quality assurance support on radar remote sensing projects, spacecraft communications upgrades, on various INSTEP experiments (Inflatable Antenna Experiment, Cryocooler) as well as systems analysis on the CASSINI spacecraft. Currently, he serves as the In-Flight Radiometric Calibration and Characterization Subsystem cognizant software development engineer for the Earth Observing System (EOS)/ Multi-angle Imaging SpectroRadiometer (MISR) at JPL.