

E110-001

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Minimum variance analysis applied to the magnetic field variations detected by Kaguya/LMAG around the Moon

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Minimum variance method is applied to the magnetic field variation around the Moon detected by Kaguya/LMAG. The propagation direction of 100mHz variations detected in the vicinity of magnetic anomalies was nearly perpendicular to the surface to the Moon, independent of the direction of the local magnetic field. The field variation showed right-handed circular polarization. On the other hand, the propagation direction of higher frequency variations on the dayside of the Moon was nearly parallel to the background magnetic field.