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Time-Distance investigation of the emerging Active Region

S. Zharkov, M.J. Thompson

Dept of Applied Mathematics, University of Sheffield, UK (s.zharkov@shef.ac.uk)

Using European Grid of Solar Observations' Solar Feature Catalogue of sunspots and solar monitor data we identify a set of emerging Active Regions. We then apply time-distance helioseismology to the tracked Dopplergram data corresponding to the time before the emergence, using Born approximation sensitivity kernels.