

Master path/row (date)	Slave path/row (date)	Sensor	Separation (days)	Pixel size (m)	Uncertainty (m a ⁻¹)	Mean centreline velocity (m a ⁻¹)
160/035 (19721117)	160/035 (19751111)	MSS	1089	60	15	92.7
160/035 (19751111)	160/035 (19770802)	MSS	630	60	26	138.0
160/035 (19780719)	160/035 (19790714)	MSS	360	60	76	405.4
160/035 (19790406)	160/035 (19790626)	MSS	81	60	338	1966.0
160/035 (19790626)	160/035 (19790819)	MSS	54	60	304	2690.9
160/035 (19790714)	160/035 (19790819)	MSS	36	60	456	3036.9
160/035 (19790714)	160/035 (19790906)	MSS	54	60	507	2671.5
199/277 (19860506)	199/277 (19860627)	HRV	52	20	45	87.1

Table S1: Image pairs used in feature tracking, their estimated uncertainty, and mean centreline velocities (lower 15 km) for comparison. Uncertainty calculations are based on estimated co-registration errors (0.5 – 1.0 pixels) and an algorithm precision of 0.25 pixels accounting for the coarse representation of surface features in the MSS imagery. SPOT data were provided by the ISIS programme, Copyright CNES.