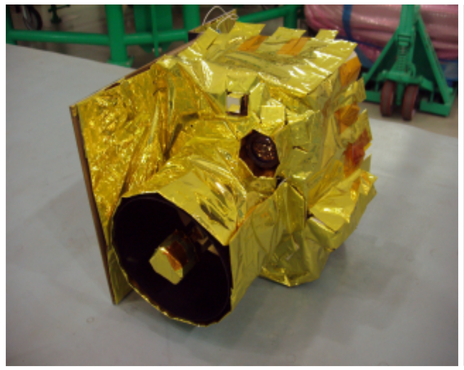
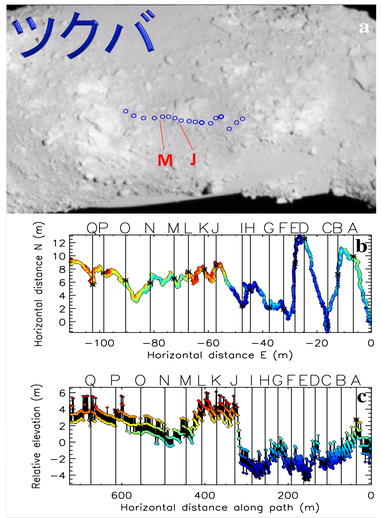
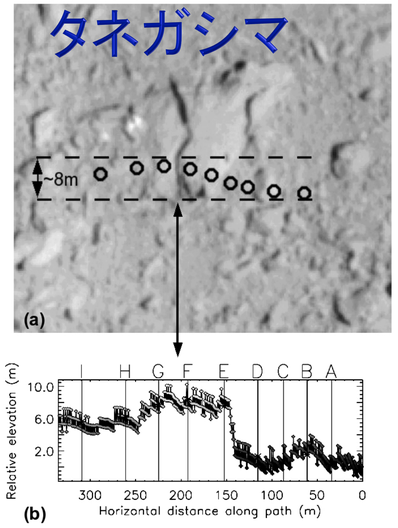
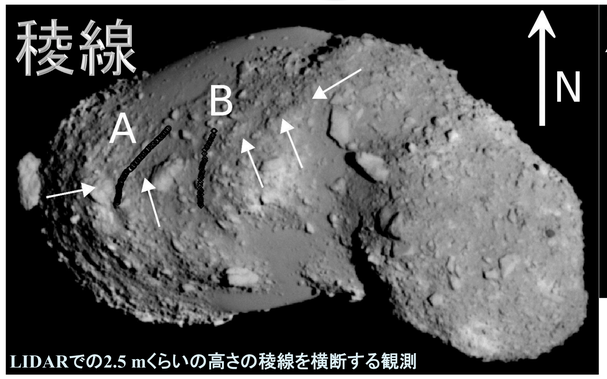
LIDAR (LIght Detection And Ranging)



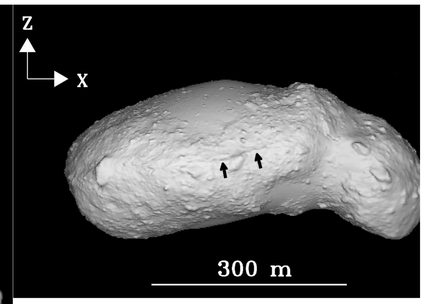
要素	諸元
測距精度	50 m ~ 50 km ± 1 m @ 50 m ± 10 m @ 50 km
パルスレート 波長 パルスエネルギー パルス幅 広がり角 ビーム角 ビーム直径	1 Hz 1064 nm 8 mJ 14 nsec φ 0.5 mrad (1/e²) 1.7 mrad (0.097°) 85 m @ 50 km, 1.7 m @ 1 km
受信機の視野角 受信機	Φ 1 mrad カセグレン, Φ 126 mm, SiC
質量 消費電力	3.7 kg 17.0W (+専用ヒータ最大5W)
サイズ 放熱板	240 mm × 228 mm × 250 mm 240 mm × 300 mm

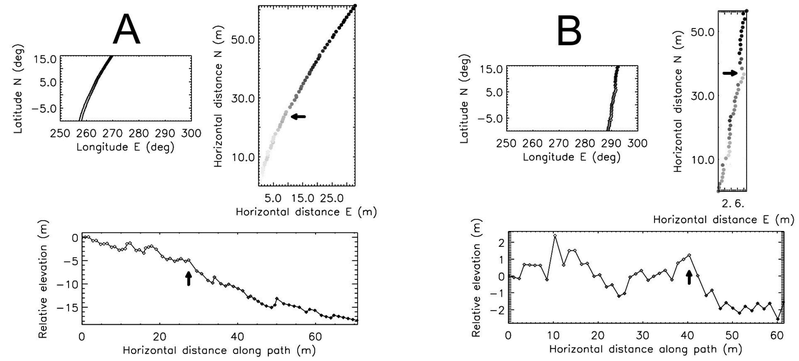


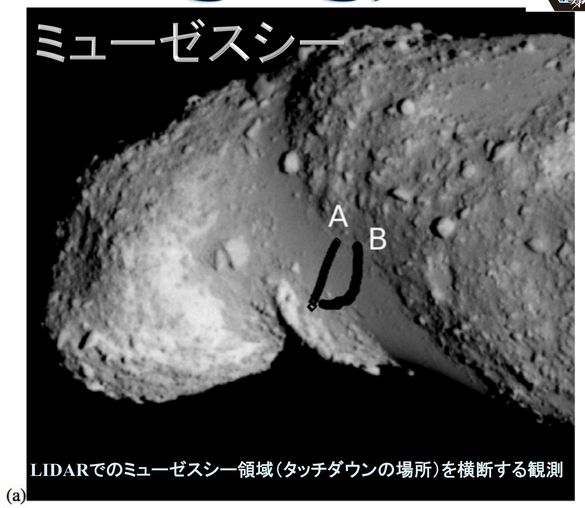




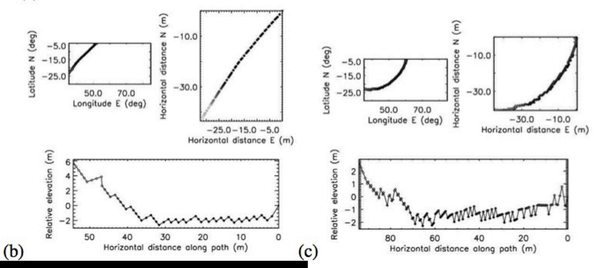
LIDARでの2.5 mくらいの高さの稜線を横断する観測

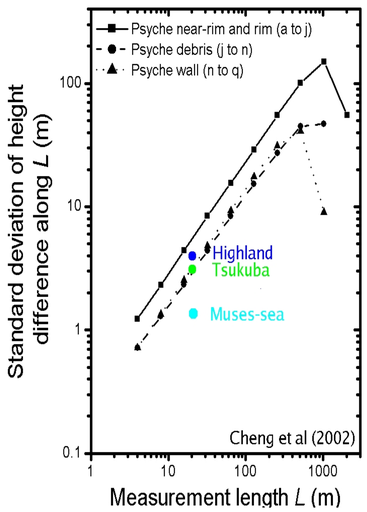


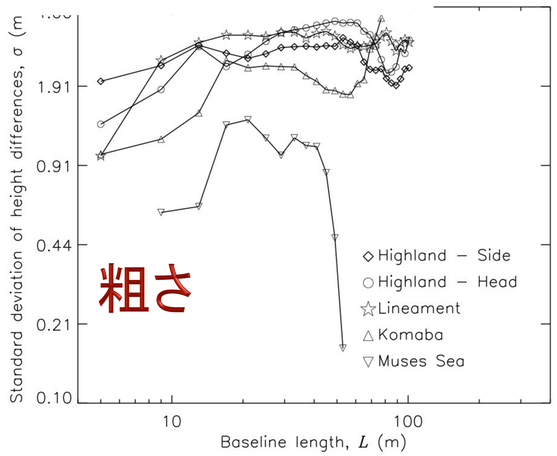


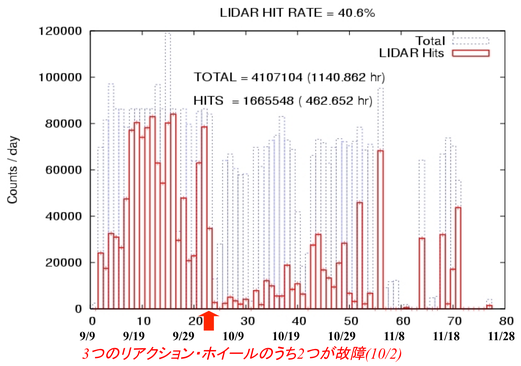


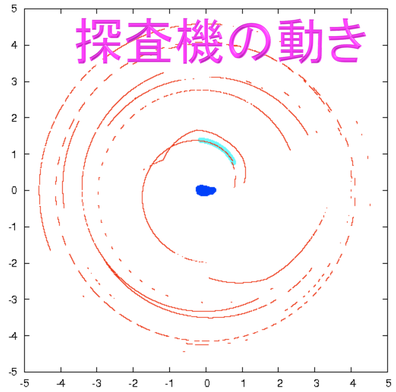
LIDARでのミューゼスシー領域（タッチダウンの場所）を横断する観測



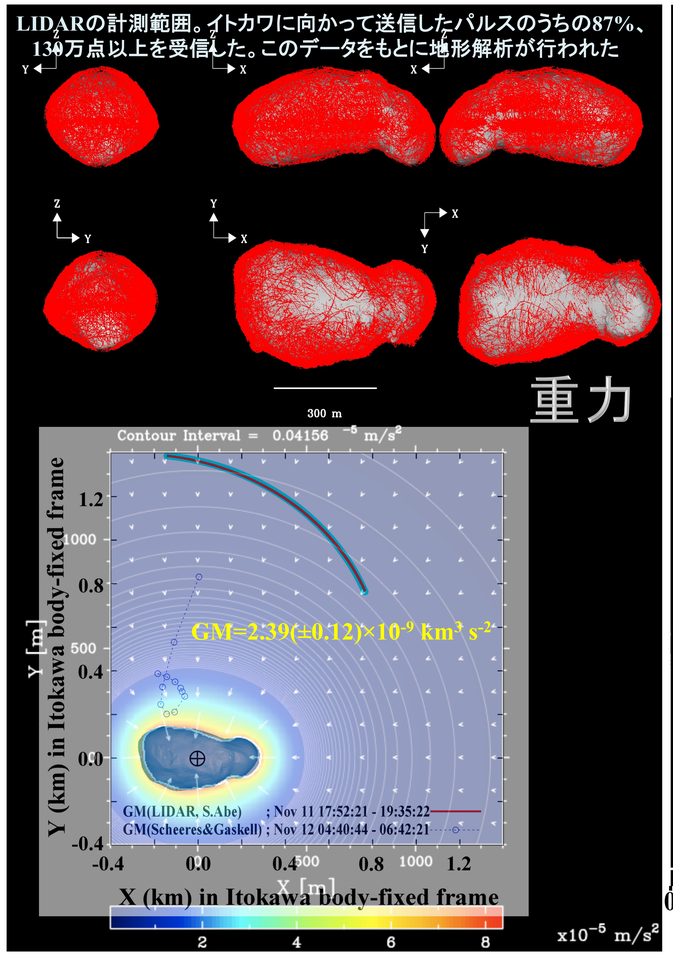


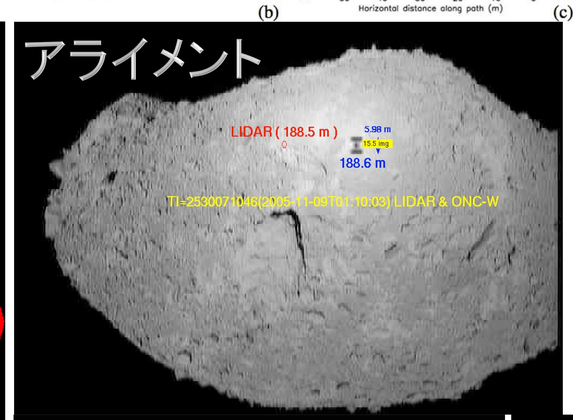




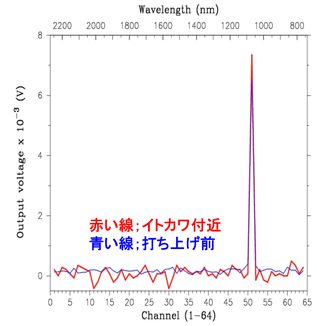


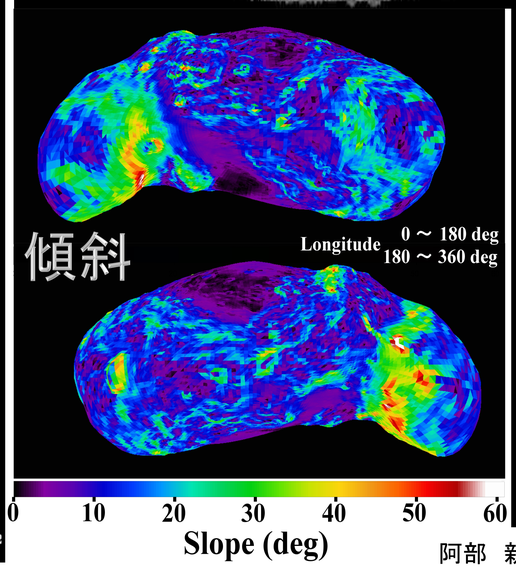
LIDARの計測範囲。イトカワに向かって送信したパルスのうちの87%、130万点以上を受信した。このデータをもとに地形解析が行われた

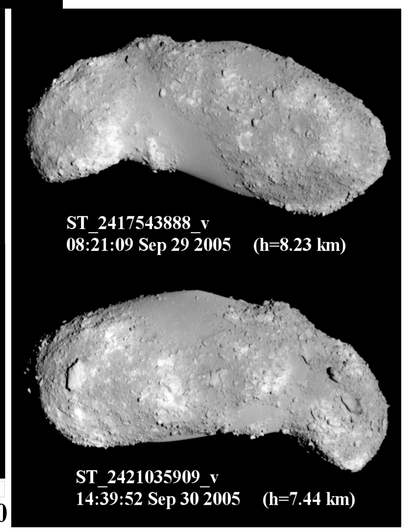




LIDARとNIRSの向きを合わせる







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