

## Enceladus

DSS-65 instead of DSS-63 (elevation bearings problem)

SPK delivered after OTM-072 executed, but decided to go with older predicts.

Signal around 0750. Told station. 65 locked up soon after.

Monopulse enabled at 258/075115

Monopulse fluctuations at beginning, then stabilized. Asked station if they did something to improve, and they said no.

0810 NOPE reporting he sees wind varying 0-17 km .. direction 319.

AZ at 126, El 54. Wind hitting antenna from back.

0818 Asked NOPE for updated wind speed and direction. Said that current is 13.8 km, direction 307, but seen it go to 357.

0838 Asked NOPE for another update on wind speed and direction. Said that current is 19.4 km/hr, direction 332.

Sharp drop in signal at exact time we were supposed to pass the plume, and sharp increase around one minute later.

Instead of passing 16 km below surface, we physically occulted Enceladus by 10 seconds. Missed the plume itself or caught some of it on the edge.

0851 monopulse re-enables at 085100

0903 wind speed 10.2 km, direction 273

0912 Ka-band fluctuations. Station reporting monopulse is nominal.

0917 station reporting cloud covers

0924 fluctuation in Ka-band. Signal reported cloud going by

0929 wind speed 11.8, direction 265.

0930 monopulse disabled and offsets cleared

Oscillations at Ka-band

0939 monopulse re-enabled

Playback 0749 till 1025

DSS-65 LOS on S-band 2447