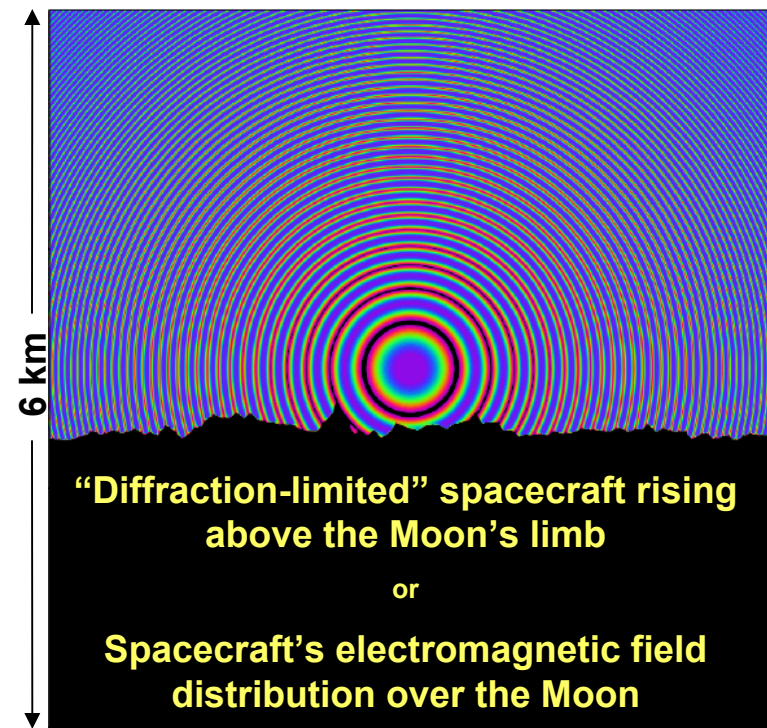


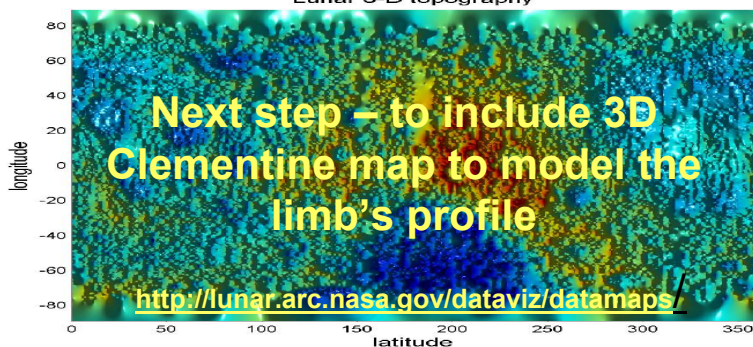
Explaining the SMART-1 diffraction patterns

S.Pogrebenko, L.Gurvits, I.Avruch, J.Nianchuan

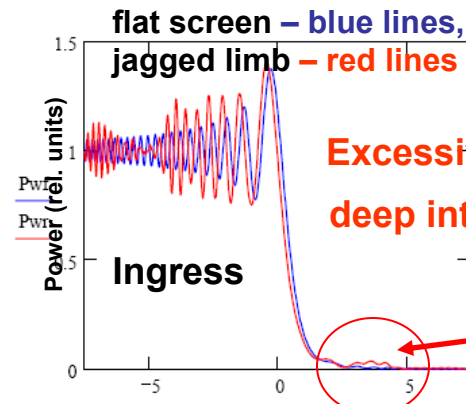
2007.08.28



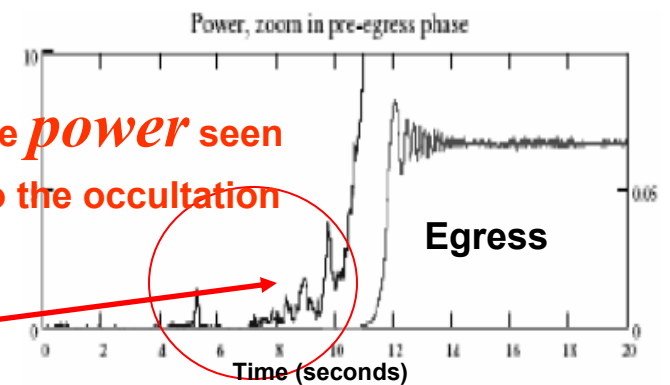
Model area covers 6 by 6 km at Moon’s limb in 4 m grid



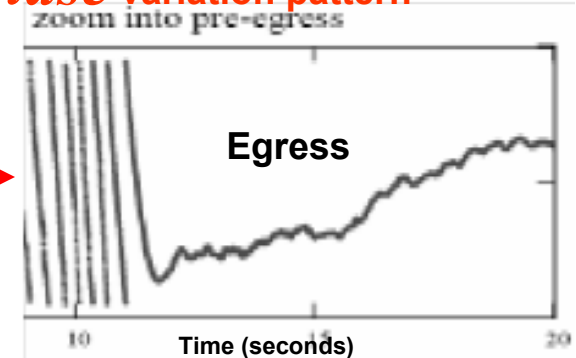
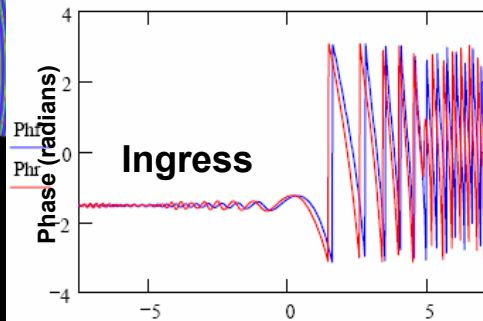
Modeled



Observed

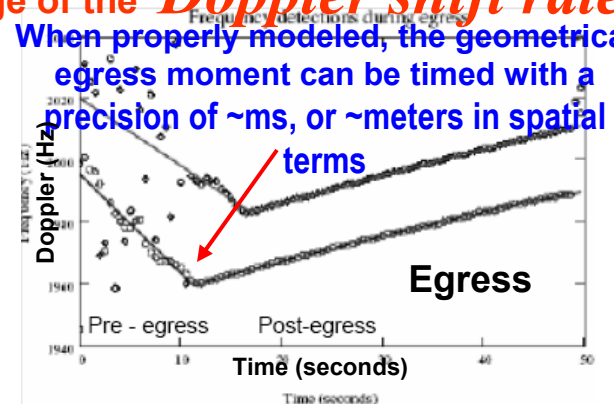
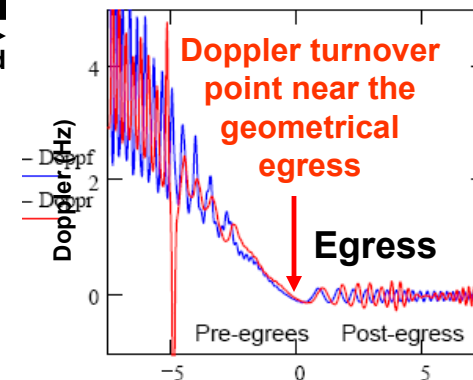


Characteristic *phase* variation pattern



Diffraction-induced change of the *Doppler shift rate*

When properly modeled, the geometrical egress moment can be timed with a precision of ~ms, or ~meters in spatial terms



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