

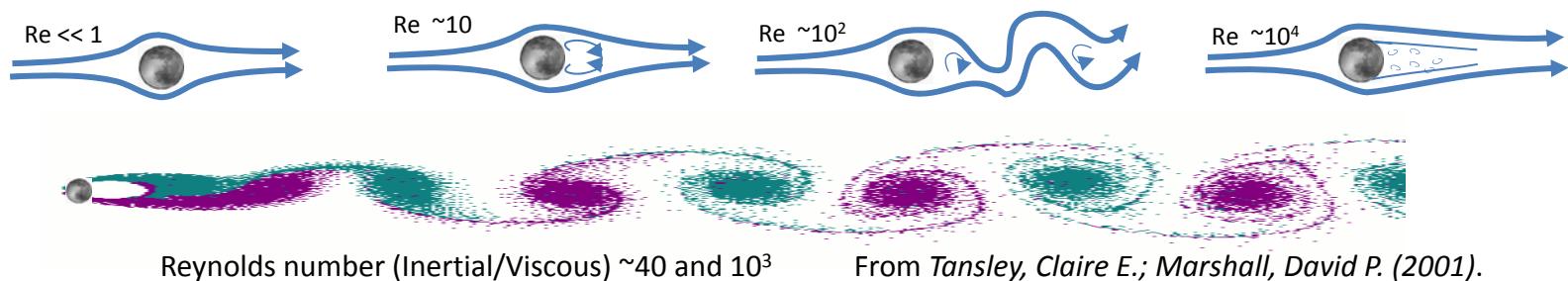


Waves in LLBL and Lunar Wake

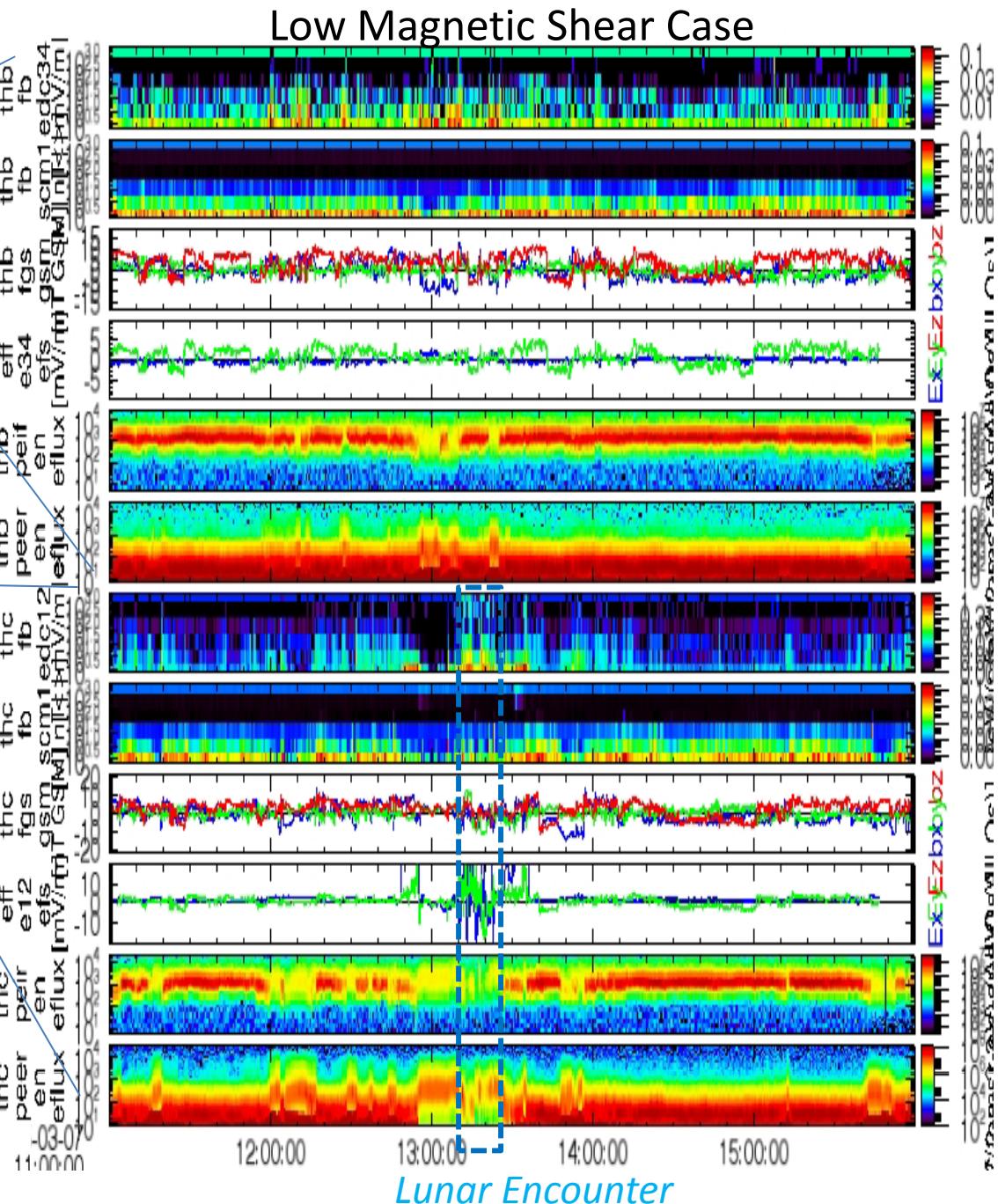
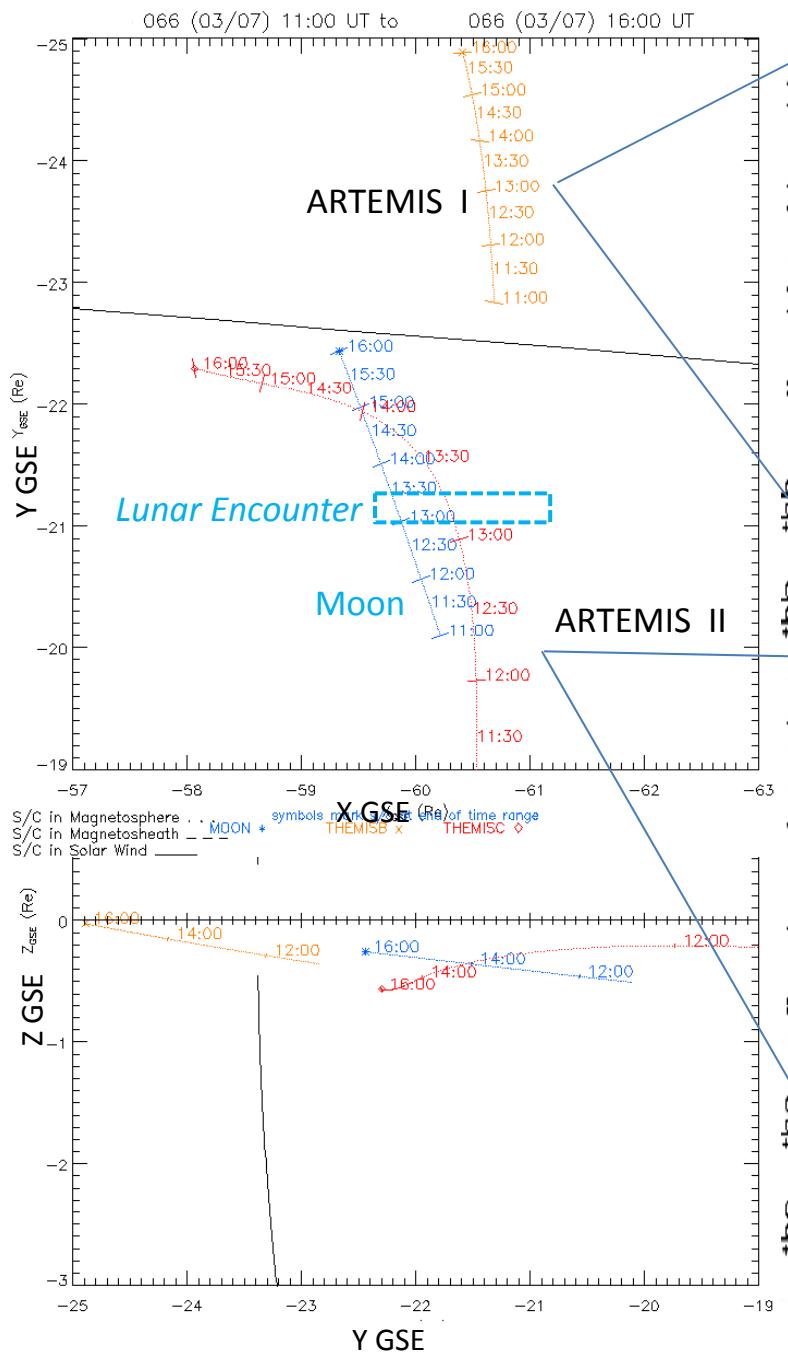
Sheng-Hsien Chen

My findings and things can be done

- Lack of periodicity ULF (~ 1 - 60 min) surface waves – smaller amplitudes, long period swing of the tail, orbital bias, etc.
- Presence of kinetic waves in LLBL and lunar wake (kinetic Alfvén wave, ion cyclotron wave, magnetosonic wave, lower hybrid waves, whistler wave, etc.)
- Study of kinetic Kelvin-Helmholtz instability , lower-Hybrid instabilities, kinetic ballooning/interchange instability, and reconnection.
- Estimate of scale lengths (L), anomalous resistivity - LHDW (η), diffusion coefficients ($D_{\alpha\alpha}$), and Lundqvist number ($\mu_o L V_A / \eta$).



From Tansley, Claire E.; Marshall, David P. (2001).



High Magnetic Shear Case

