(a) Lithology

- shale
- dark shale
- bedding plane

(b) Tuned log(SiO2/CaO) and bandpassed frequencies

- Depth domain
- Time domain

- Duration [kyr]
- [wt% ratio]

- 100 kyr e
  - 0.007-0.012
- log(SiO2/CaO)
- Precession
  - 0.0019-0.003
  - 0.045-0.065

- Fr-LEC 15
- Fr-LEC 16
- Fr-LEC 17

- Lower variability - node?

- Lithological bundling, precession in phase; 100 kyr eccentricity anti-phased
- Unclear phase relationships