

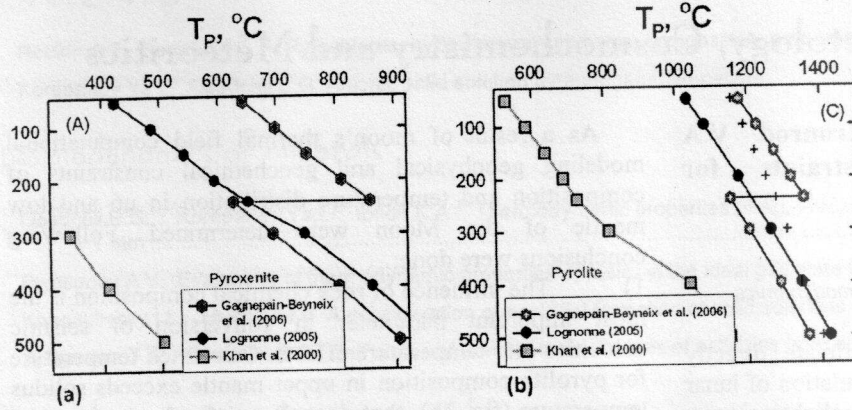


Fig. 1. Temperature distribution in the upper mantle of the Moon, derived from recent seismic data [Кронрод и Кусков, 1999; Кронрод и Кусков, 1999; Kuskov et al., 2002] and geochemical constraints for pyroxenite composition. Seismic models for temperature calculation were taken from [Кронрод и Кусков, 1999]. Temperature variations on parts with the same velocity depend on density changing with depth.

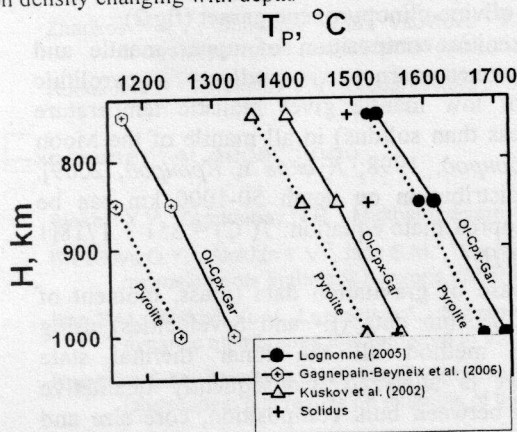


Fig. 2. Temperature distribution in low mantle of the Moon from seismic models [Кронрод и Кусков, 1999; Кронрод и Кусков, 1999; Kuskov et al., 2002]. Compositional models are: pyroxenite, olivine-clinopyroxene-garnet and pyrolite. Solidus (crosses) marks data for pyroxenitic [Kuskov et al., 2002] and peridotitic [McDonough, 1995] composition.

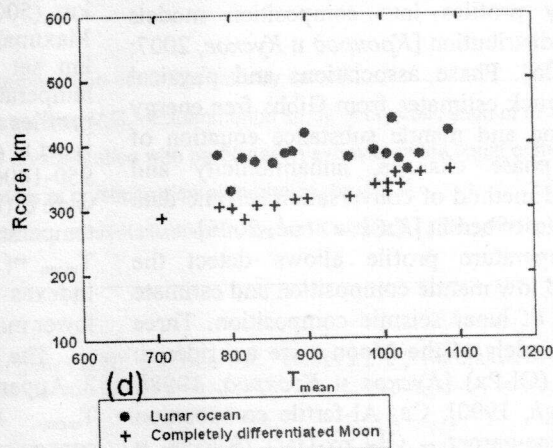
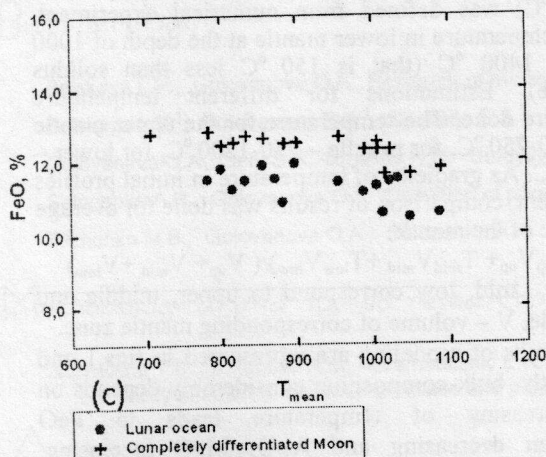
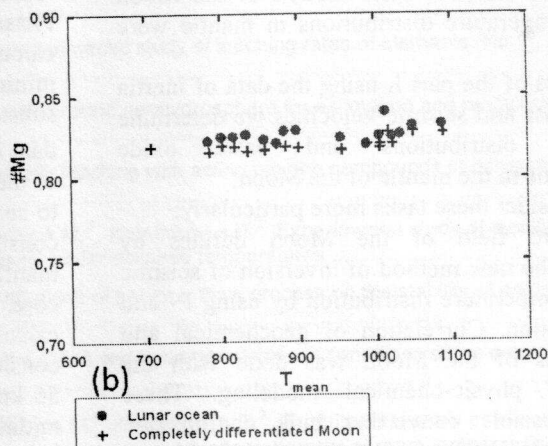
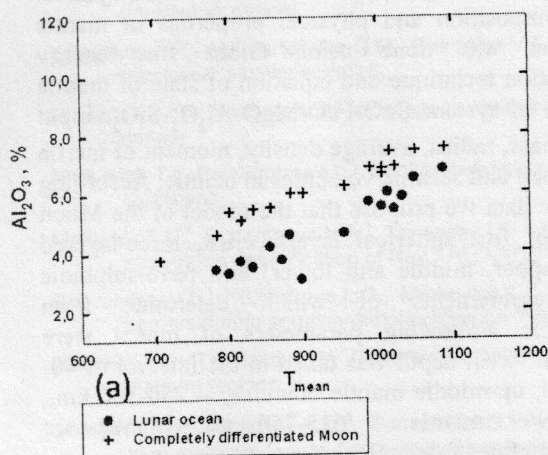


Fig. 3. Concentration of Al_2O_3 (a) magnesia number (b), concentration of FeO (c) and core radius as functions of T_{mean} . Middle-lower mantle bound is 625 km.