



#### ELECTRONIC ANNEX 1

XRD patterns (after drying at 40 °C) of subsamples from different depth intervals (0 – 30 mm) of the profile through nodule SO205-44KG-2. All three patterns indicate distinct basal peaks at  $\approx 10$  Å and broad and low intensities at  $\approx 7$  Å as well as two hk-bands at  $\approx 2.45$  Å and  $\approx 1.42$  Å. Stars indicate impurities.