



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 pattern indicate distinctly basal peaks at ≈ 10 Å and broad and low in intensity at ≈ 7 Å as well as two hk-bands at ≈ 2.45 Å and ≈ 1.42 Å. Stars indicate impurities.