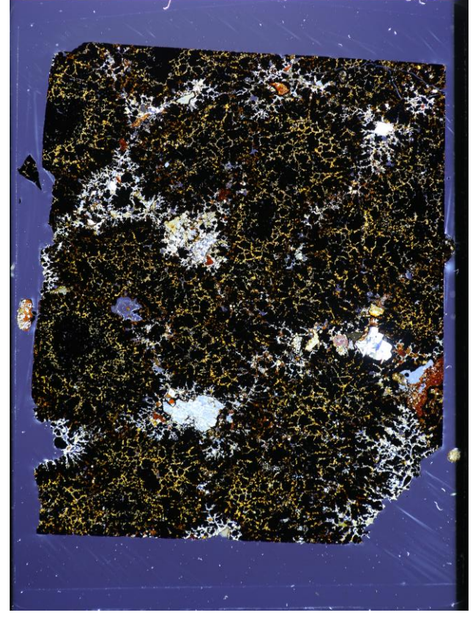
| General Information | | | |
|---|---|---|---|
| Sample Name (IGSN) | EX1708-D12-2 | | |
| Describer | Kevin Konrad | | |
| Sample Location | Mussorgsky Seamount | | |
| Lithology prefix | | | |
| General Lithology | FeMn Sediment | | |
| Texture 1 | | | |
| Texture 2 | | | |
| Whole Rock Original (%) | 100 | Check [ Ph + Vs + Gm = 100% ] | OK |
| Whole Rock Present (%) | 0 | Check [ Or = Pr + Rf ] | OK |
| Whole Rock Replaced (%) | 100 | Check [ Or = Pr + Rf ] | OK |
| Total Groundmass Original (%) | 100 | Check [ Gp + Gl + Ms = 100% ] | OK |
| Total Groundmass Present (%) | 0 | Check [ Or = Pr + Rf ] | OK |
| Total Groundmass Replaced (%) | 100 | Check [ Or = Pr + Rf ] | OK |
| Whole Rock Summary | A thick (6.5 cm) FeMn crust with no sediment/rock inclusions. Sample has a solid interior and a boytroidal surface. | | |
| Thin Section Summary | Primary FeMn oxides with a single clinopyroxene grain (750 um diameter), an heavily altered basalt clast and a cluster of fresh plagioclase (>500 um diameter). The plagioclase cluster have sector zoning and albite twinning. The single clinopyroxene grain is fresh. | | |

## Whole Rock

## Transmitted Light

| PHENOCRYSTS [Ph] | OL | PLAG | OPX | CPX | SPINEL | OTHER | VESICLES [Vs] | GRNDM [Gm] |
|---|---|---|---|---|---|---|---|---|
| Original (%) [ Or ] | | | | | | | | |
| Present (%) [ Pr ] | | | | | | | | |
| Replaced / Filled (%) [ Rf ] | | | | | | | | |
| Check [ Or = Pr + Rf ] | OK | OK | OK | OK | OK | OK | OK | OK |
| Minimum Size (mm) | | | | | | | | |
| Maximum Size (mm) | | | | | | | | |
| Modal Size (mm) | | | | | | | | |
| Shape | | | | | | | | |
| Habit | | | | | | | | |
| Zonation Type | | | | | | | | |
| Zonation Extent | | | | | | | | |
| Exsolution Type | | | | | | | | |
| Special Features | | | | | | | | |
| Comments | | | | | | | | |

| GROUNDMASS [Gp] | OL | PLAG | OPX | CPX | SPINEL | OTHER | GLASS [Gl] | MSTASIS [Ms] |
|---|---|---|---|---|---|---|---|---|
| Original (%) [ Or ] | | | | | | | | |
| Present (%) [ Pr ] | | | | | | | | |
| Replaced / Filled (%) [ Rf ] | | | | | | | | |
| Check [ Or = Pr + Rf ] | OK | OK | OK | OK | OK | OK | OK | OK |
| Minimum Size (mm) | | | | | | | | |
| Maximum Size (mm) | | | | | | | | |
| Modal Size (mm) | | | | | | | | |
| Shape | | | | | | | | |
| Habit | | | | | | | | |
| Comments | | | | | | | | |

## Cross Polarized