

Notes for returned Stardust samples:

#### C2052W

This foil was searched with the SEM for craters during the PE. No craters were found (with diameters of 1-2  $\mu\text{m}$  or above). The SEM images of from this search were lost after the PE. A report of the search result ('no craters found') is attached on the CD as file '[C2052W1 Report.pdf](#)'.

#### C2115W

This foil was searched with the SEM for craters during the PE. No craters were found (with diameters of 1-2  $\mu\text{m}$  or above). The SEM images of from this search were lost after the PE. A report of the search result ('no craters found') is attached on the CD as file '[C2115W1 Report.pdf](#)'.

#### C2105N

This foil was allocated for a large crater study. The JSC sample bag says '1 crater 50-100  $\mu\text{m}$ '. However, no such crater could be located during a detailed optical study of the foil and of the JSC photo montage. We have identified 12 candidate features in the photo mosaic that may be small craters; these features are highlighted in the file '[C2105N1+12CandidateFeatures.png](#)' on the CD. Even if some of these candidate features really are craters, they are too small for our large crater study. No further analysis of this foil was performed.

#### C2112N

This foil was allocated for the large crater study as well. The JSC sample bag says '1 crater 20-50  $\mu\text{m}$ '. We again studied the sample optically in connection with the JSC photo montage. There is indeed a larger crater on the original foil, but it was located close to the aerogel. The extracted foil strip does not contain this crater, as it is on the wrong side of the extraction cut. In the attached image '[C2112N1+annotation.png](#)' we have indicated the location of the large crater in relation to the foil cut during the extraction. An optical search of the entire foil has not found any craters or crater candidates that are suitable for our large crater study. No further analysis of this foil was performed.