

Prodis GOS X-Ray Detector Characterization. Application 1 (IFFC)



ПРОДИС.НДТ
ПРОМЫШЛЕННЫЕ ДИАГНОСТИЧЕСКИЕ СИСТЕМЫ И ТЕХНОЛОГИИ

28-Jan-2021

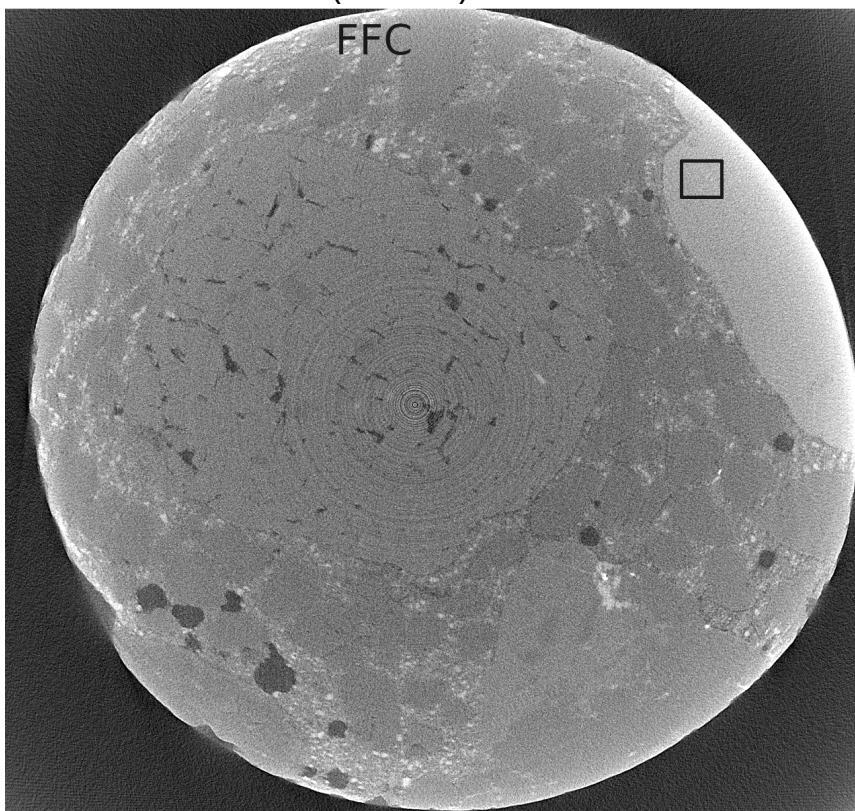
Table 1. Tomography configuration

| | |
|---------------------|--------------|
| SDD | 448.4 mm |
| SID | 32.49 mm |
| M | 13.8 |
| Vox Size | 3.57 um |
| HV | 120 kV |
| Current | 50 mKA |
| Focus size | Small (8 um) |
| Exposure | 450 ms |
| Shots | 720 |
| Rotation Step (deg) | 0.5 |
| Avg | 10 |
| FFC avg | 200 |
| Preprocessing | ffc/iffc |

Table 2. IFFC Configuration

| | |
|-------------|--|
| Filters set | al-1mm al-2mm al-3mm al-4mm al-5mm al-6mm al-7mm al-8mm al-9mm |
| FFC avg | 200 |

mean 0.305 std 0.045 (14.74 %)



mean 0.243 std 0.042 (17.38 %)

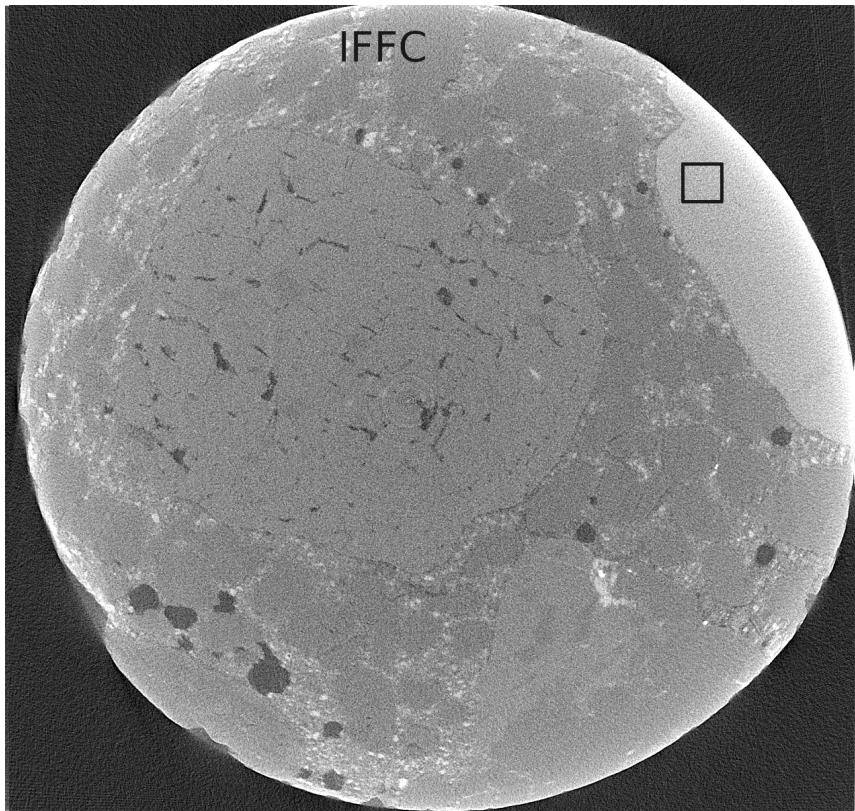


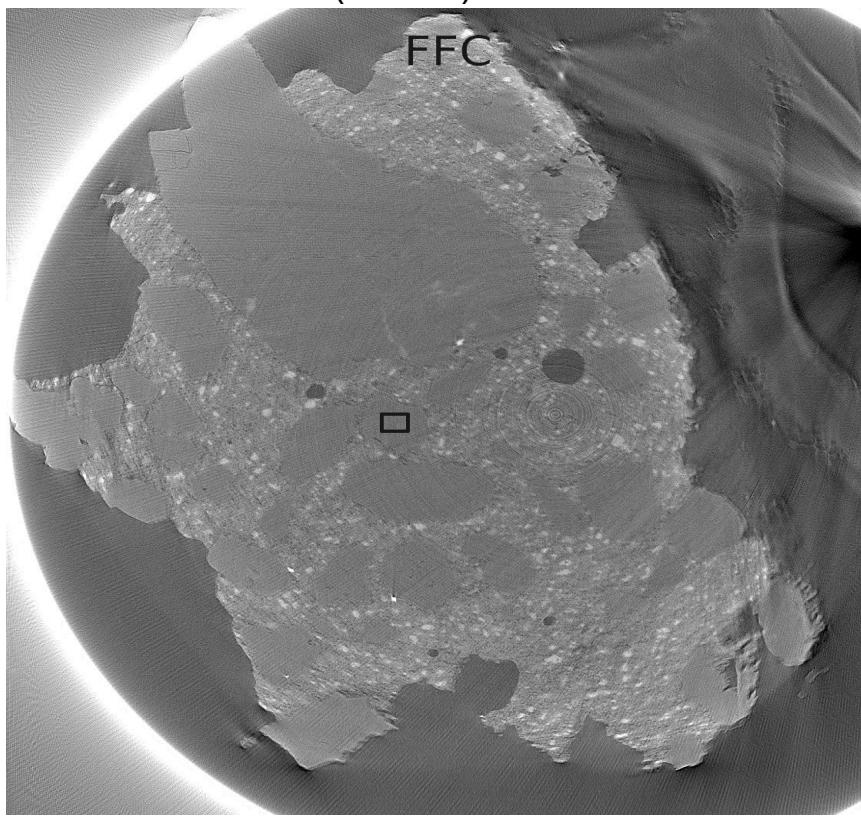
Table 3. Tomography configuration

| | |
|---------------------|--------------|
| SDD | 448.4 mm |
| SID | 20.13 mm |
| M | 22.27 |
| Vox Size | 2.22 um |
| HV | 70 kV |
| Current | 50 mKA |
| Focus size | Small (5 um) |
| Exposure | 3000 ms |
| Shots | 1200 |
| Rotation Step (deg) | 0.3 |
| Avg | 5 |
| FFC avg | 200 |
| Preprocessing | ffc/iffc |

Table 4. IFFC Configuration

| | |
|-------------|--|
| Filters set | al-1mm al-2mm al-3mm al-4mm al-5mm al-6mm al-7mm al-8mm al-9mm |
| FFC avg | 200 |

mean 0.336 std 0.067 (19.84 %)



mean 0.256 std 0.062 (24.36 %)

