



Non-Earth Imaging (NEI) Examples

March 2023

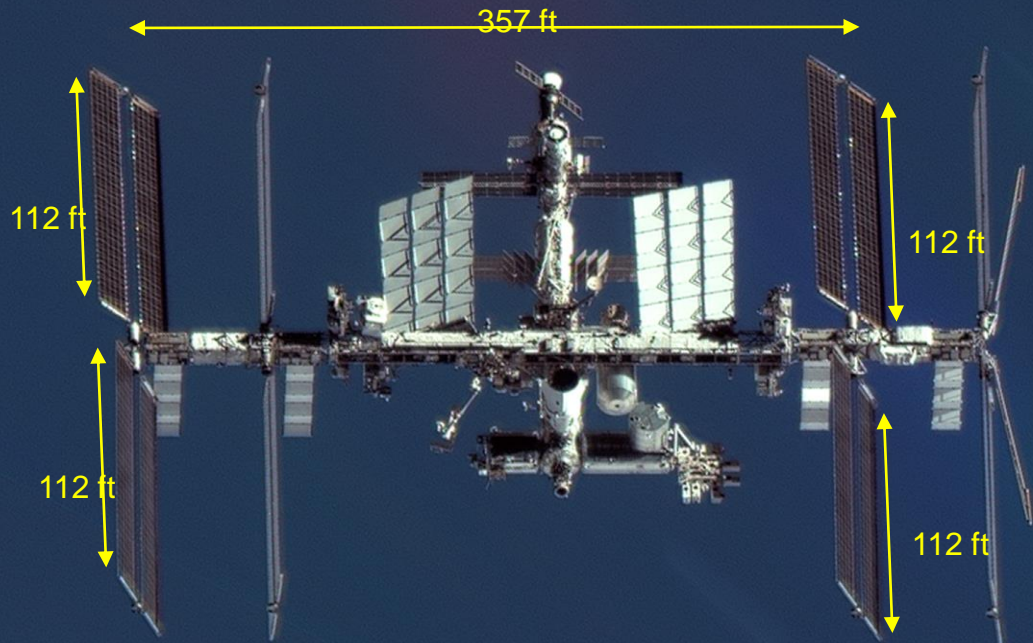
MAXAR



Space Object Characterization and Mensuration



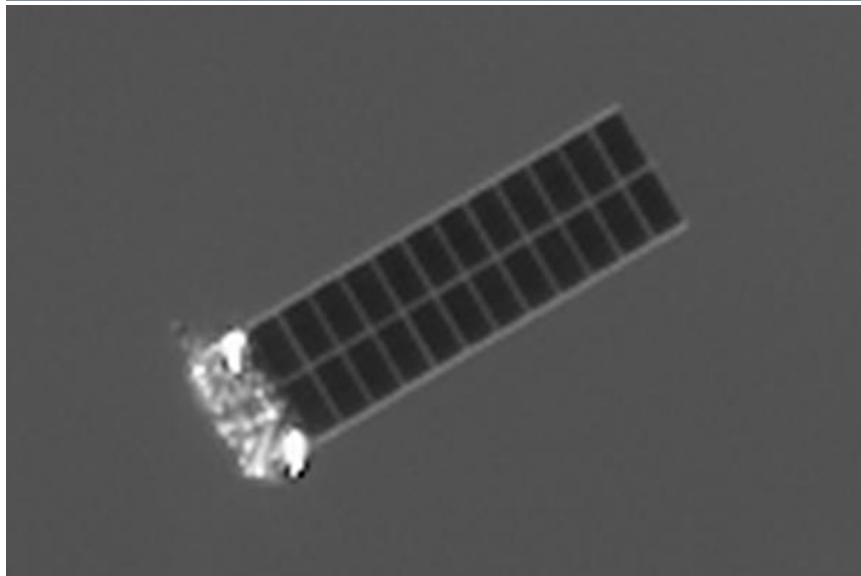
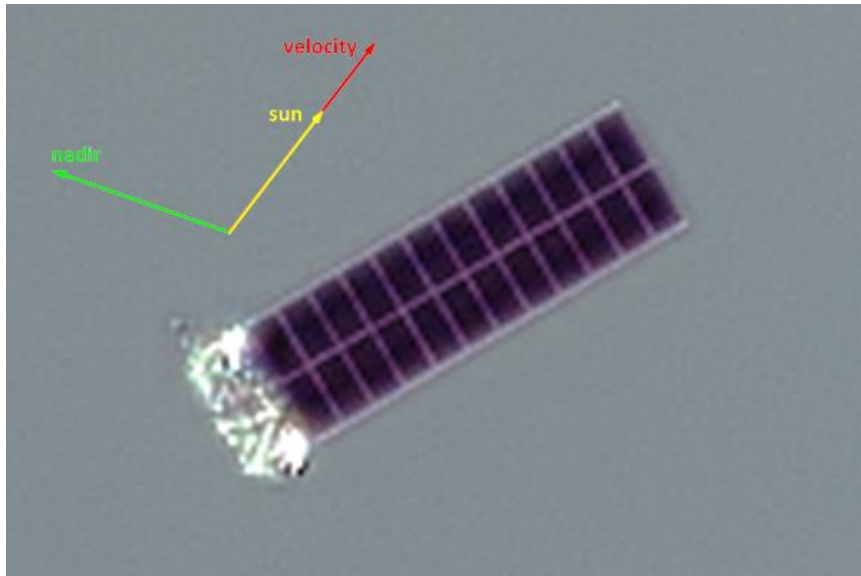
International Space Station



- Mid-scan time: 2022.09.10 12:32:53.2Z
- WV03 location: Lat 42.5 S Lon 37.8 W
- Range to target: **314 km**
- Space Sample Distance (SSD): **15.7 cm**
- Boresight-to-sun separation: 115 deg
- Background: Earth with sun elevation of 35 deg
- Sub-target sun elevation of 36 deg



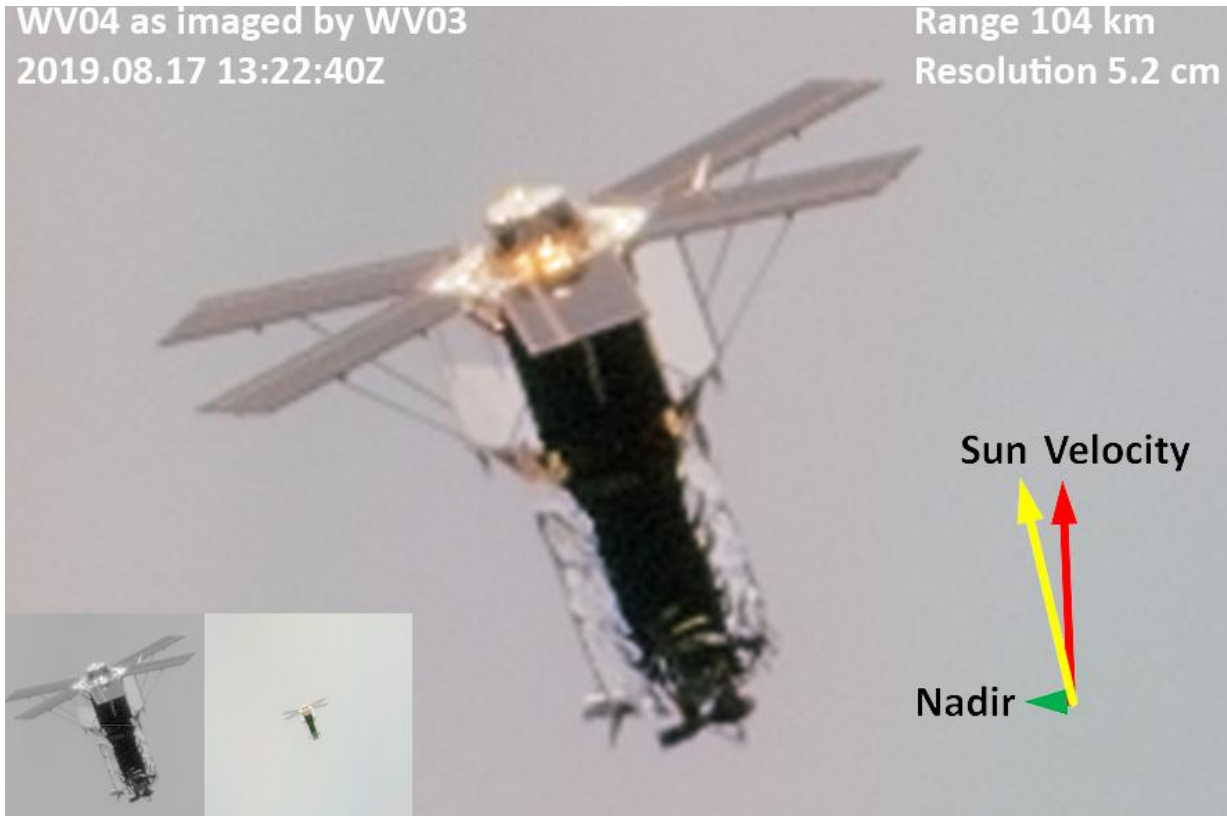
Starlink Satellite



- Mid-scan time: 2019.09.29 06:07:35.2Z
- Range to WV03: **212.7 km**
- Space Sample Distance (SSD): **10.7 cm**
- Relative Angular Rate: 2.15 deg/sec
- Camera-Sun separation: 155 deg
- Off-Nadir Angle (ONA): 50 deg
- Background: Lit earth with sun elevation of 36 deg
- Sub-target sun elevation: 41 deg



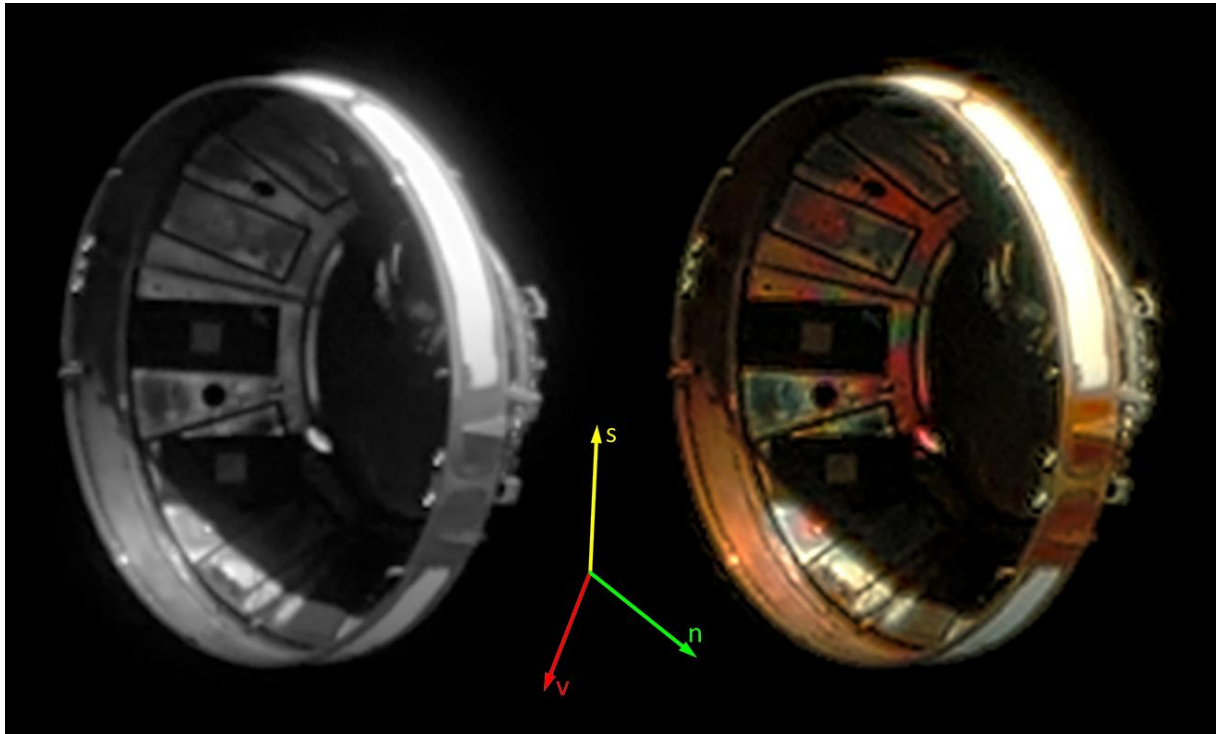
Worldview-4



- Mid-scan time: 2019.08.17 13:22:40.2Z
- Range from WV03: **103.8 km**
- Space Sample Distance (SSD): **5.2 cm**
- Relative Angular Rate: 0.35 deg/sec
- Camera-Sun separation: 106 deg
- Off-Nadir Angle (ONA): 7 deg
- Background: Earth
- Sub-target sun elevation: +14 deg



Rocket Fairing - H-IIA (H-2A)



- Mid-scan time: 2022.10.23 14:04:45.2Z
- Range from WV03: **51.1 km**
- Space Sample Distance (SSD): **2.6 cm**
- Relative Angular Rate: 0.53 deg/sec
- Camera-Sun separation: 115 deg
- Off-Nadir Angle (ONA): 127 deg
- Background: Space
- Sub-target sun elevation: +10 deg



Object State Characterization



Rocket Ferring - H-IIA (H-2A)



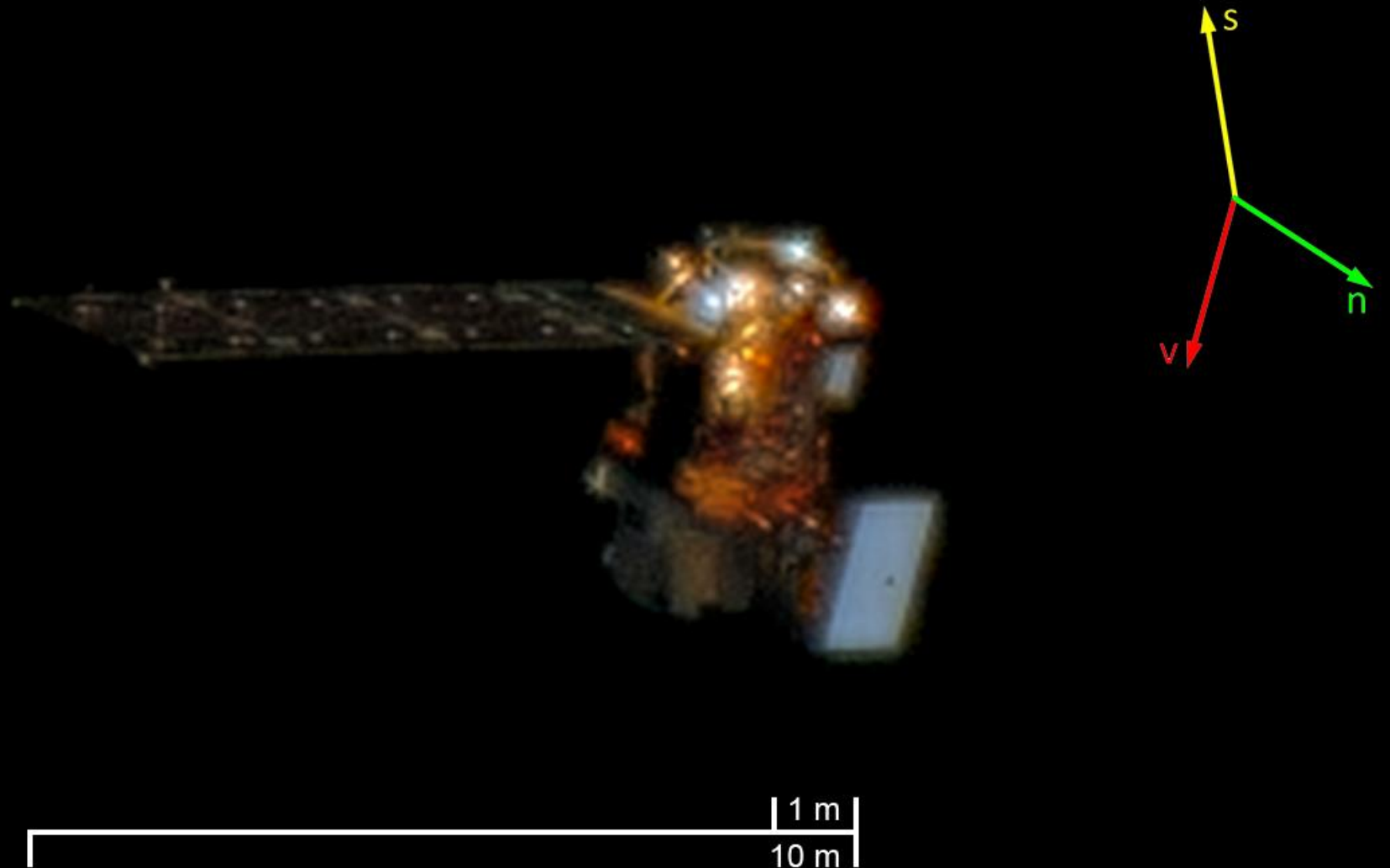


Landsat-8

2022.10.07 21:18:00Z

Range: 129.9 km

SSD: 6.5 cm



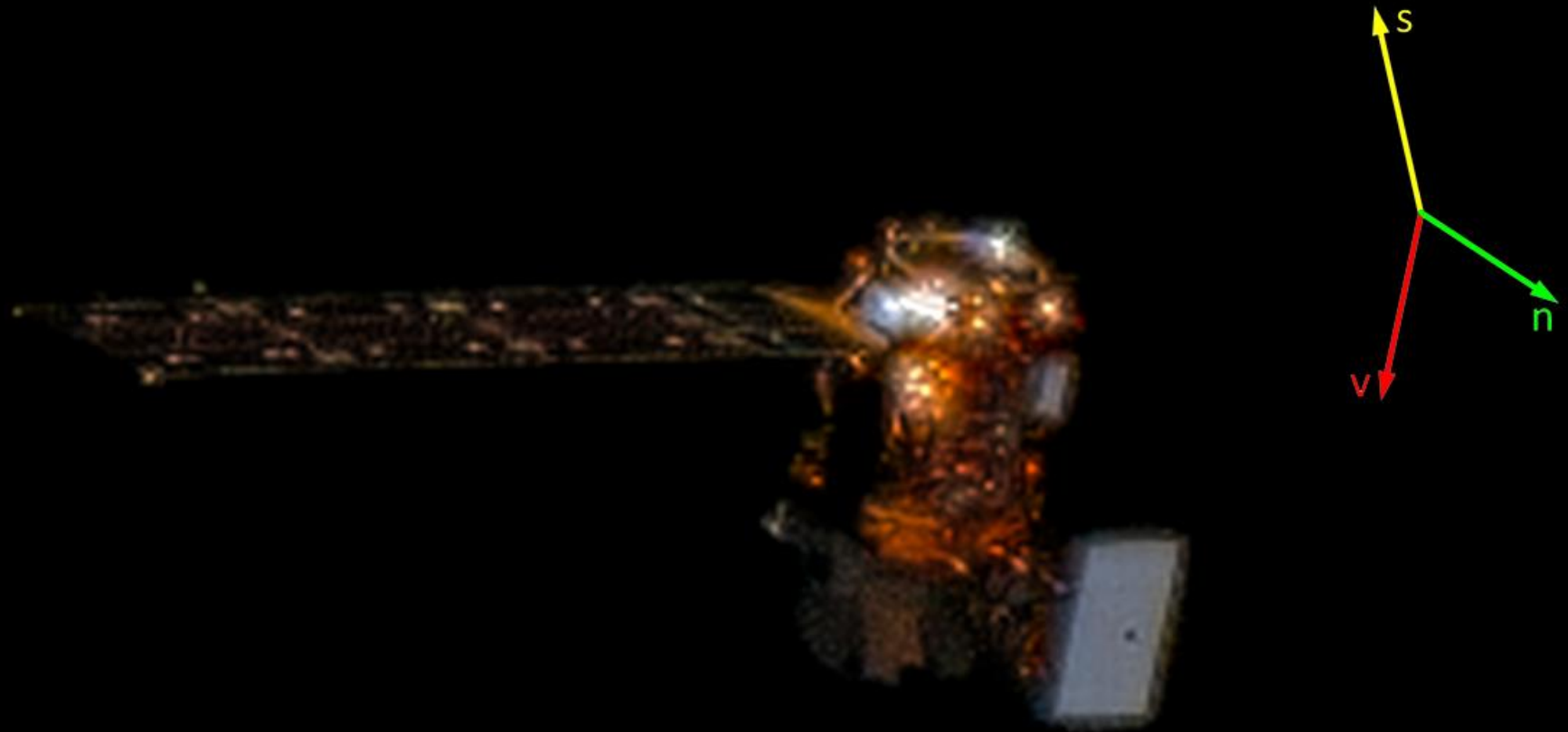


Landsat-8

2022.10.07 21:18:30Z

Range: 118.0 km

SSD: 5.9 cm



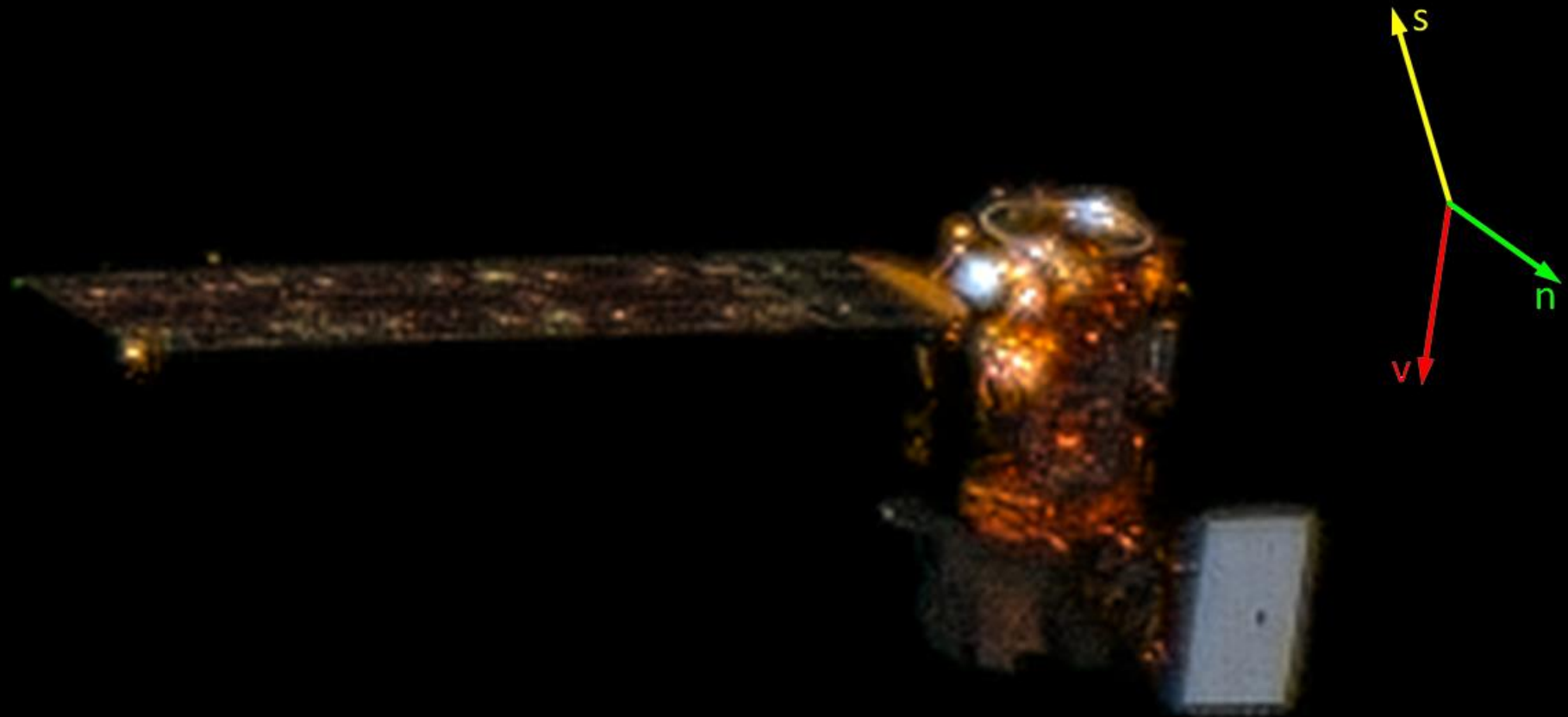


Landsat-8

2022.10.07 21:19:00Z

Range: 107.6 km

SSD: 5.4 cm



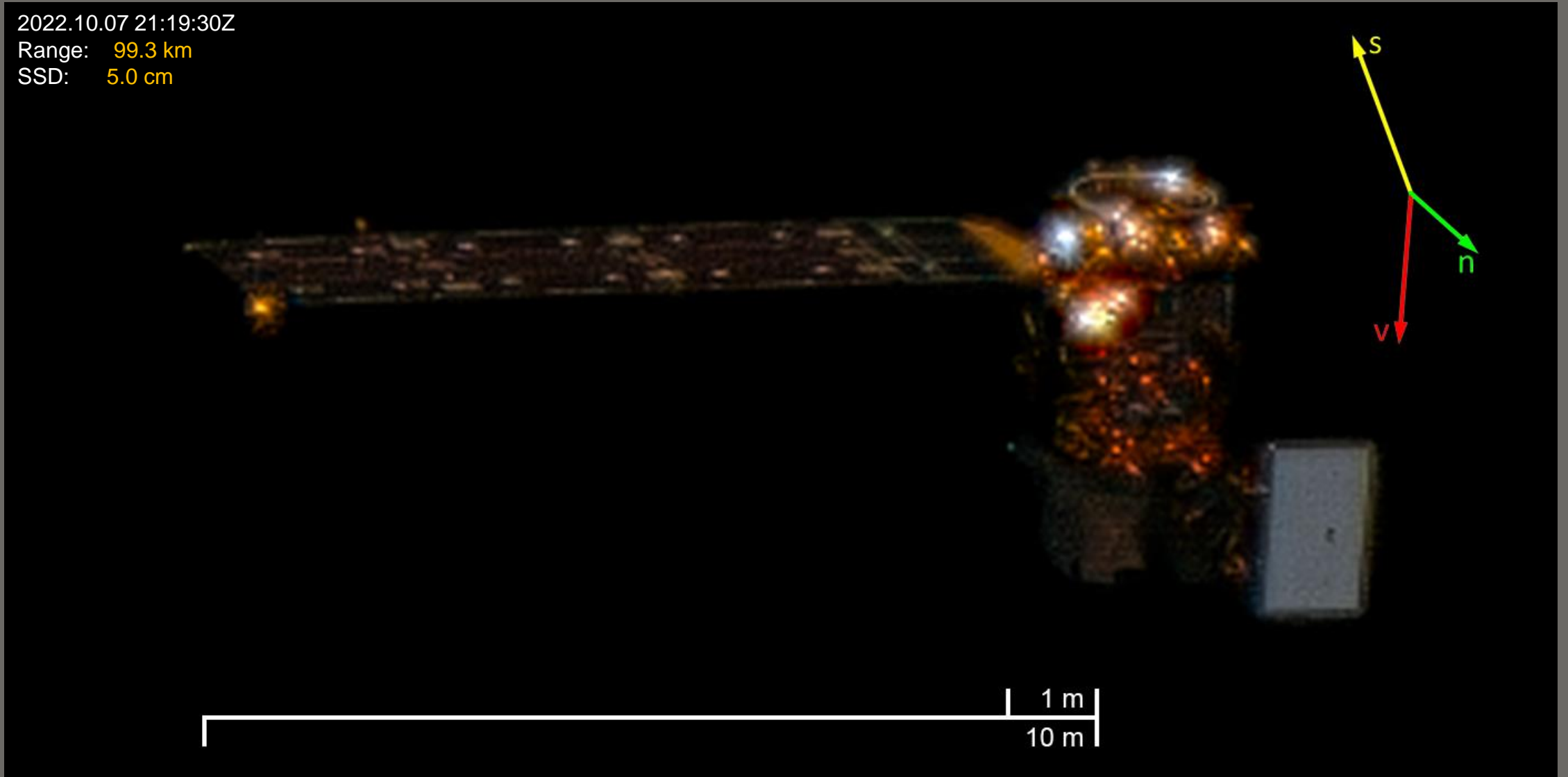


Landsat-8

2022.10.07 21:19:30Z

Range: 99.3 km

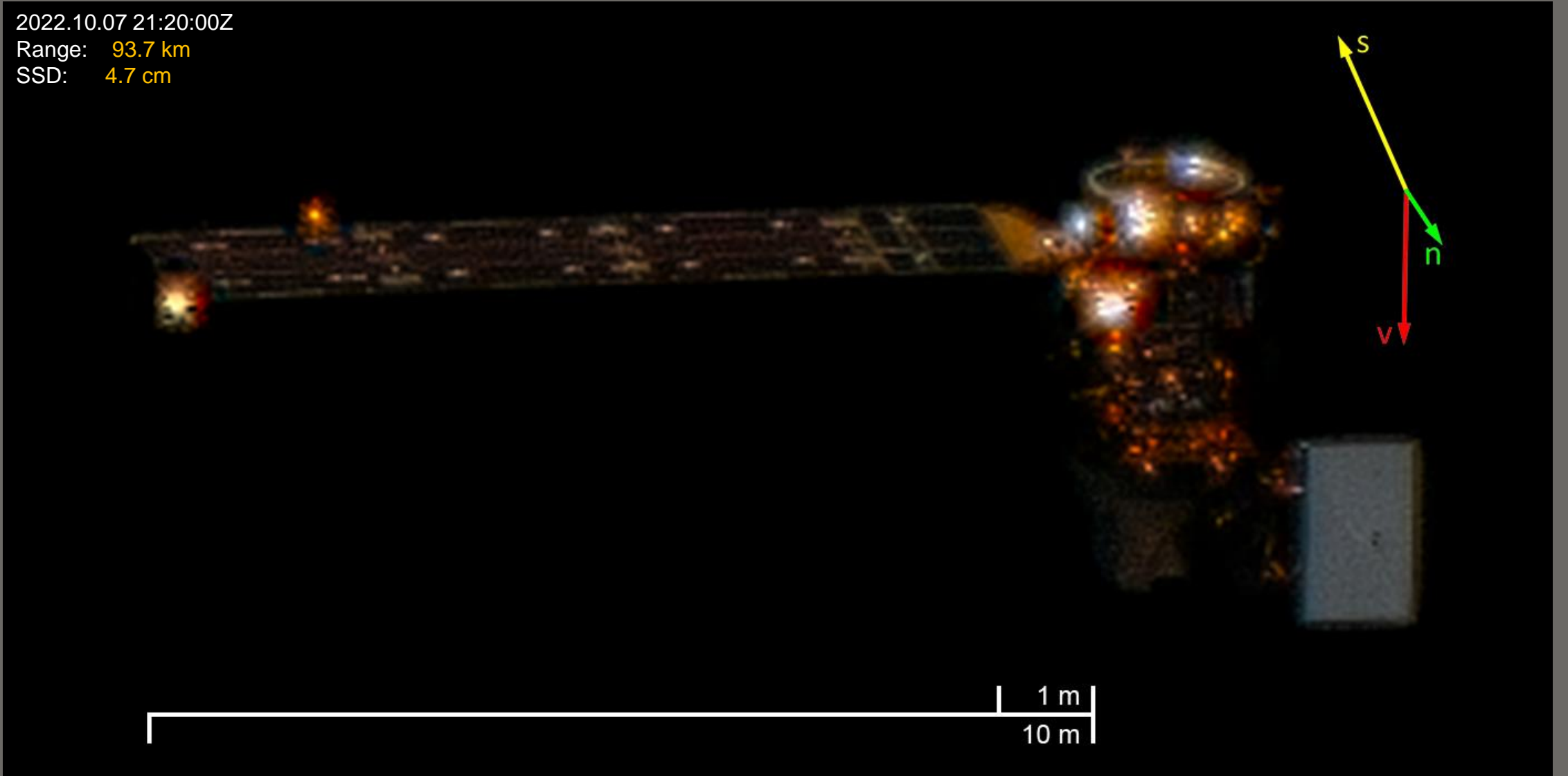
SSD: 5.0 cm





Landsat-8

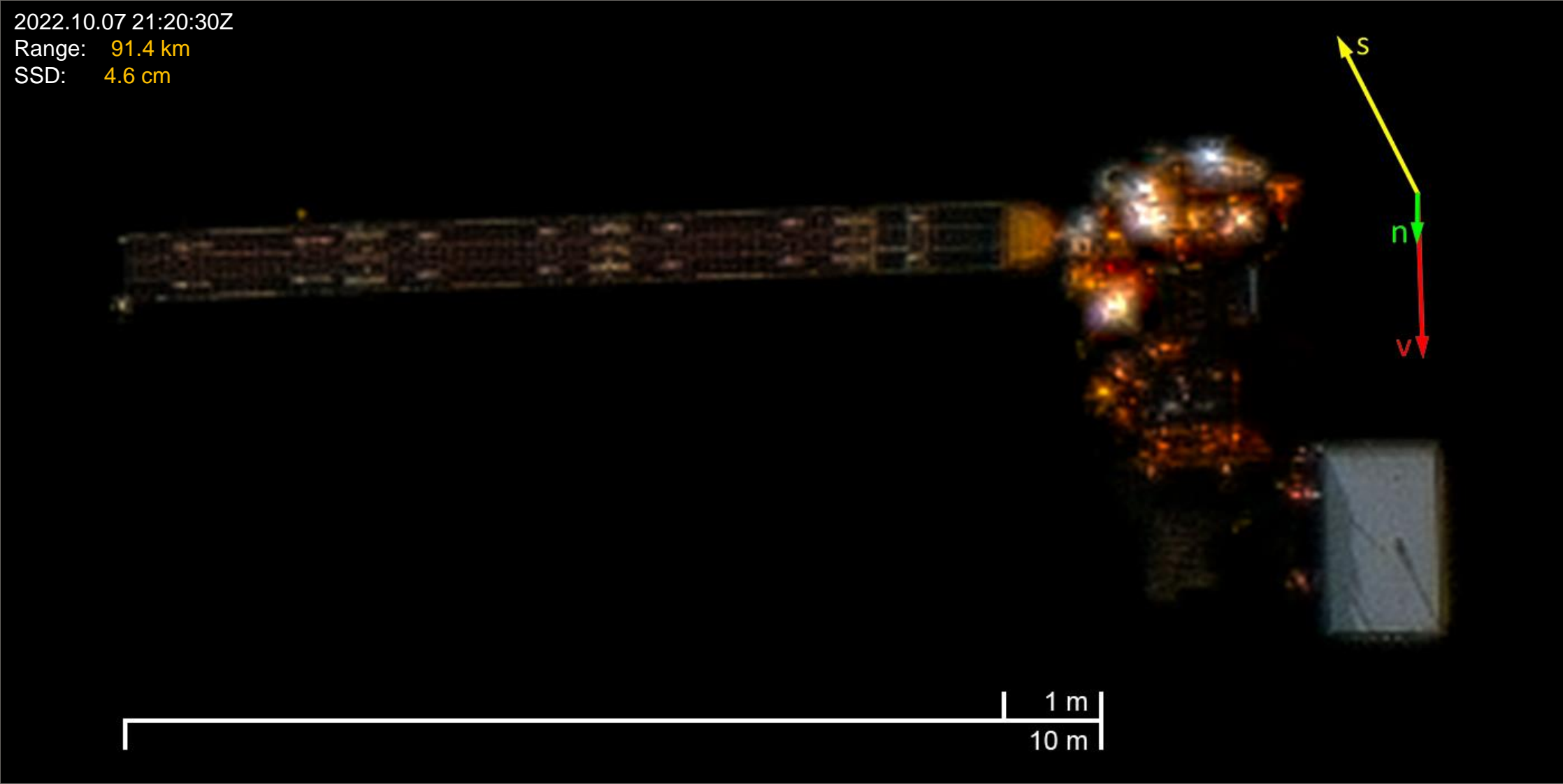
2022.10.07 21:20:00Z
Range: 93.7 km
SSD: 4.7 cm





Landsat-8

2022.10.07 21:20:30Z
Range: 91.4 km
SSD: 4.6 cm



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