



# Hyperspectral imagery processing

**Authors:**

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# Background information

- Why phenomics
- Why hyperspectral/LiDAR sensor
- How does it work
- Pipeline to process images

# Introduction

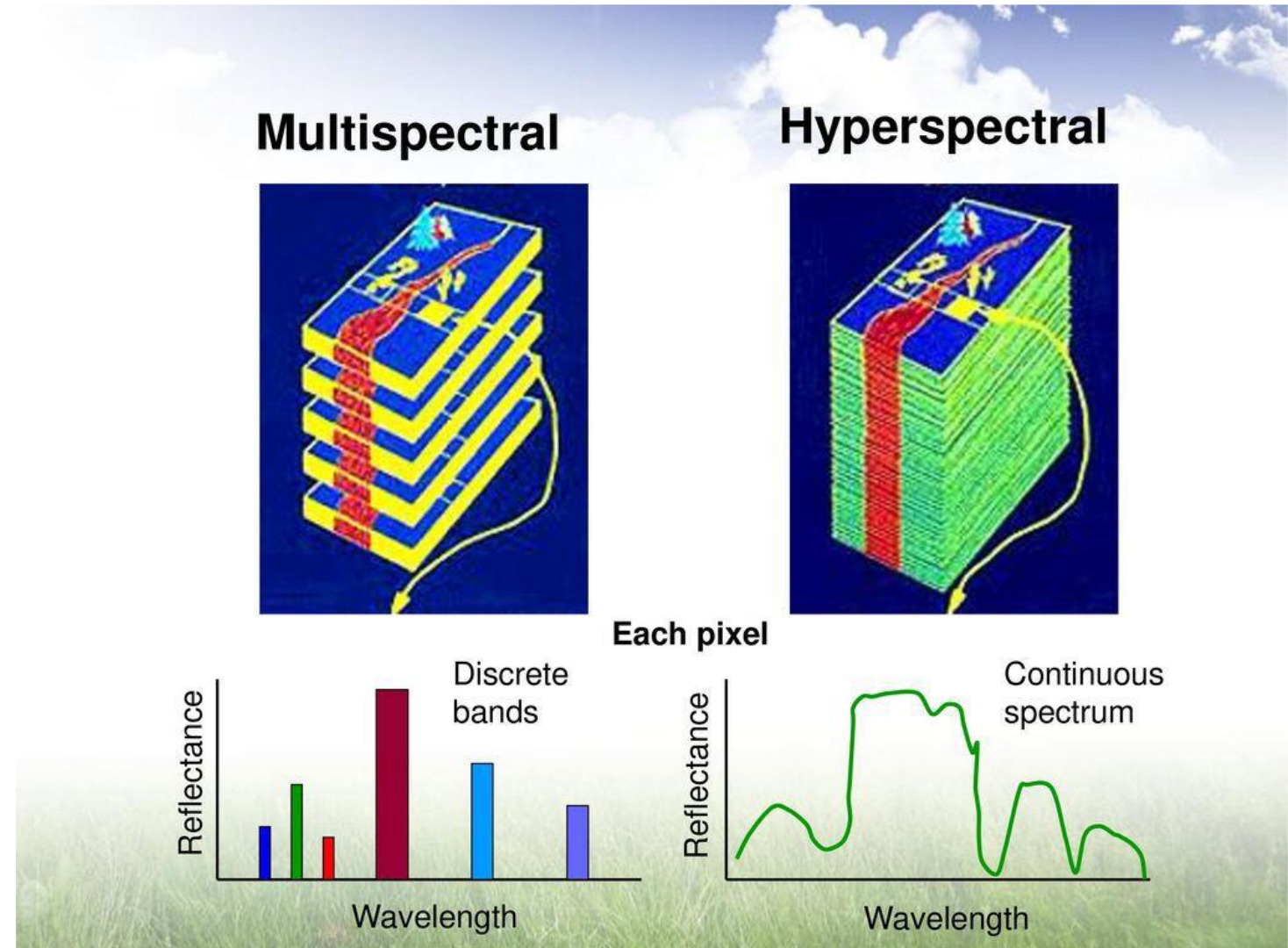
- Phenomics is a systematic, reproducible measurement of phenotypic traits of an organism
- Sensors are grouped into ground, aerial, and satellite



- Two types of remote sensors:
  - passive (e.g., optical spectroradiometer): multispectral and hyperspectral
  - active (e.g., LiDAR and Radar)

# Multispectral and hyperspectral imagery

- Advanced technique capable of acquiring a detailed spectral response of target features
- Contains 100 or more bands
- Capture small details



LiDAR- emitting laser pulses and measuring the time it takes for the light to bounce back after hitting an object.

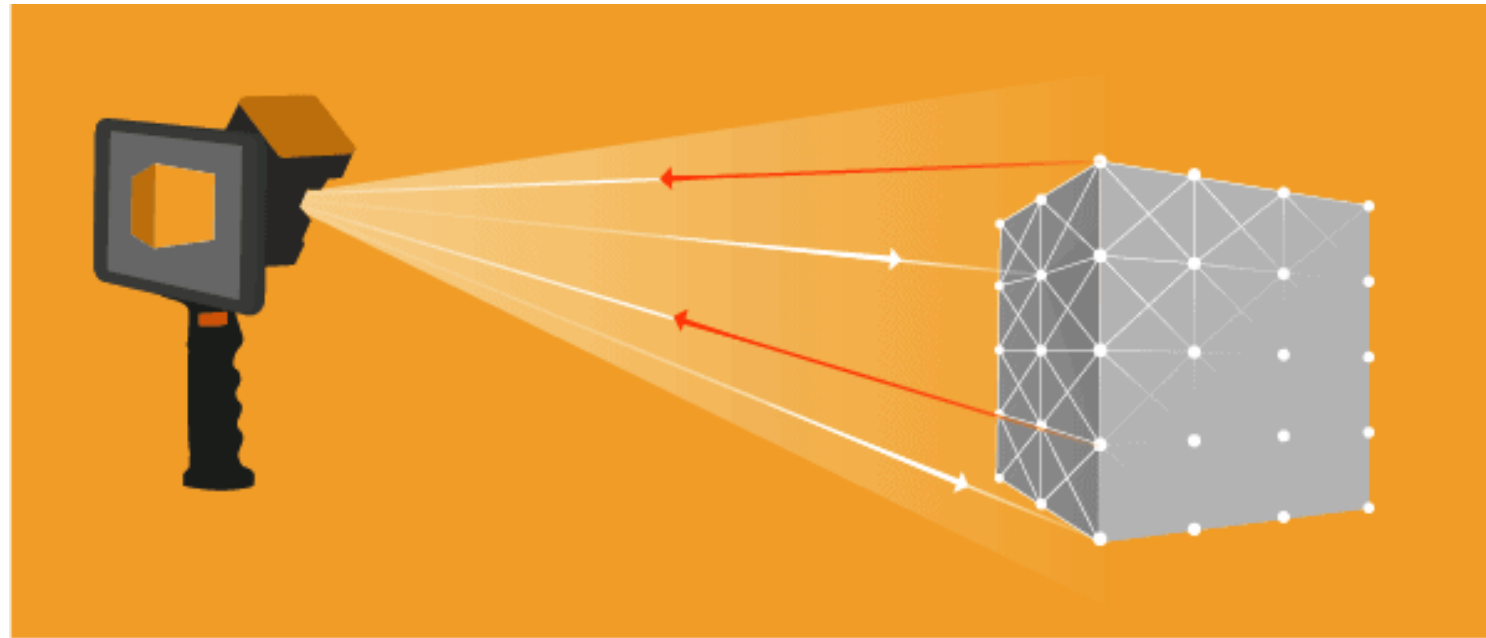
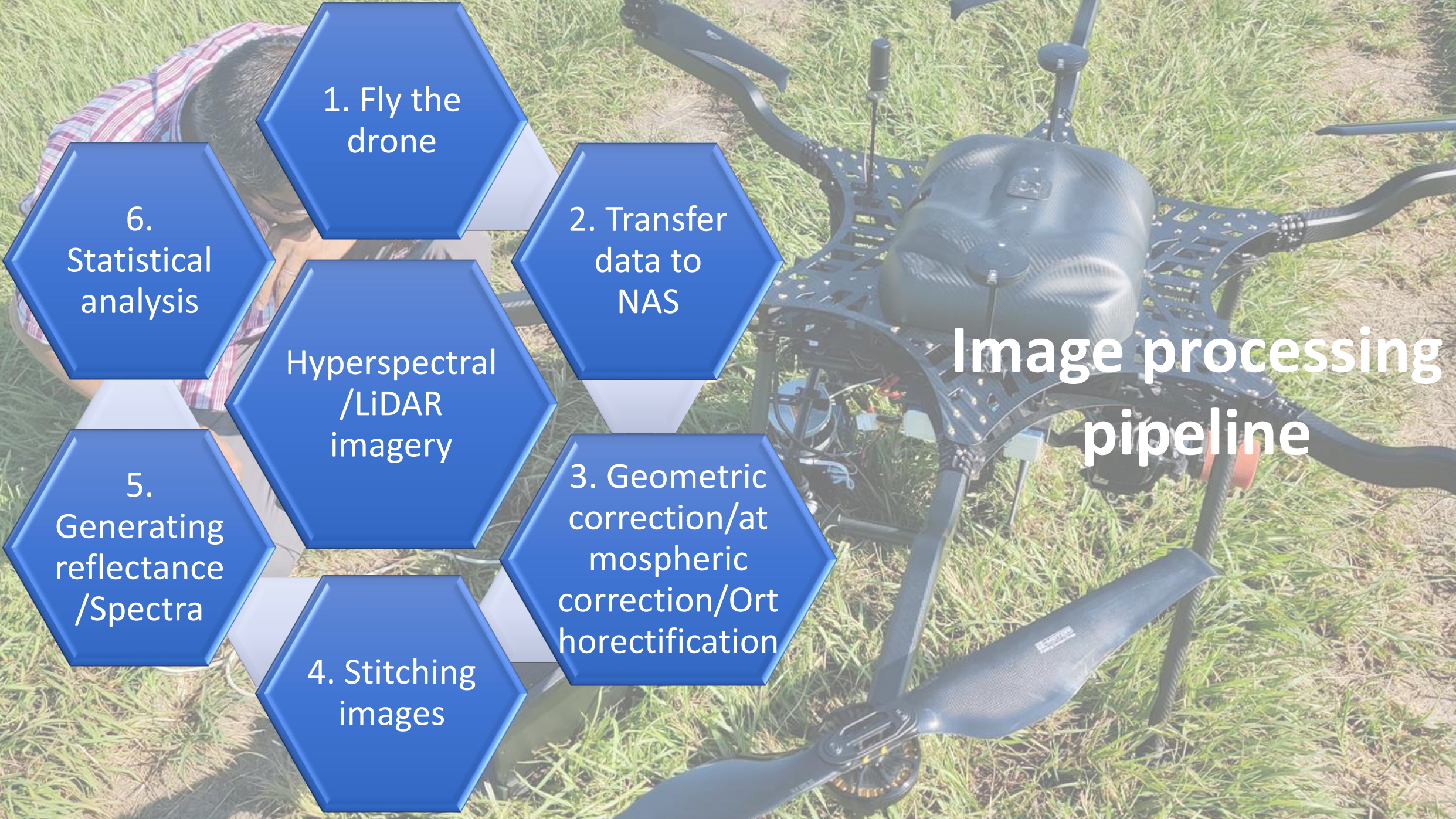


Photo credit: google

LiDAR-Light Detection and Ranging



# Materials and methods

- Drone, GPS Base station, computer, sensor
- NAS (Network Attached Storage Device)
- Three flights-June, August, October
- ENVI-LiDAR-digital surface model (DSM)
- ReSe software-DROACOR (atmospheric correction) PARGE – (orthorectification)



1. Fly the drone-step 1

Overall preparation for UAV flying

- 1. Drone-Harris Aerial Carrier HE6 Hybrid
- 2. Hyperspectral sensor- Integrated Headwall Nano + Velodyne VLP-16 LiDAR + Applanix APX-15 IMU
- 3. GPS base station (Trimble)
- 4. Field laptop, desktop workstation



1. Fly the drone-step 2



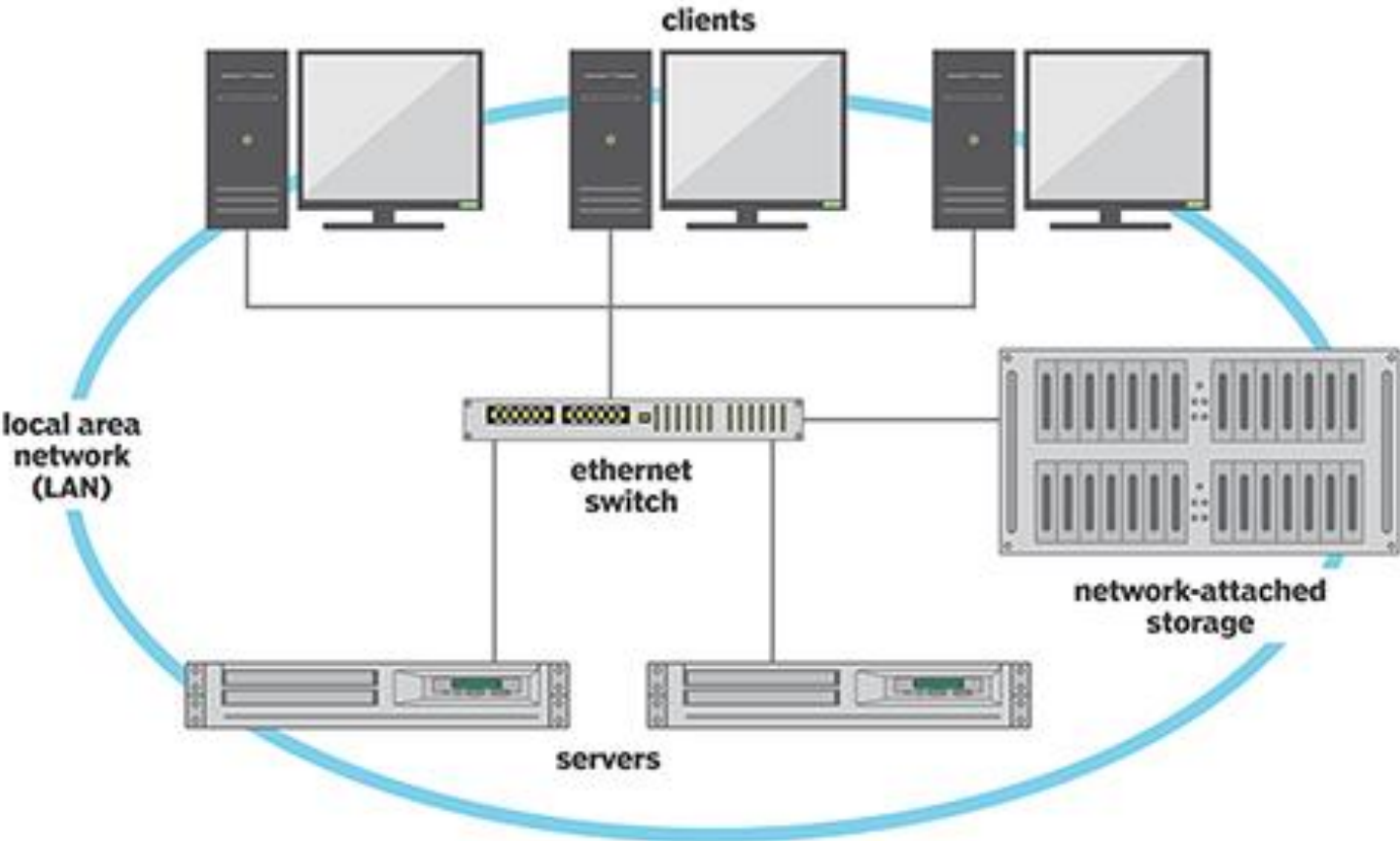
A. Remote pilot



B. UAV flying

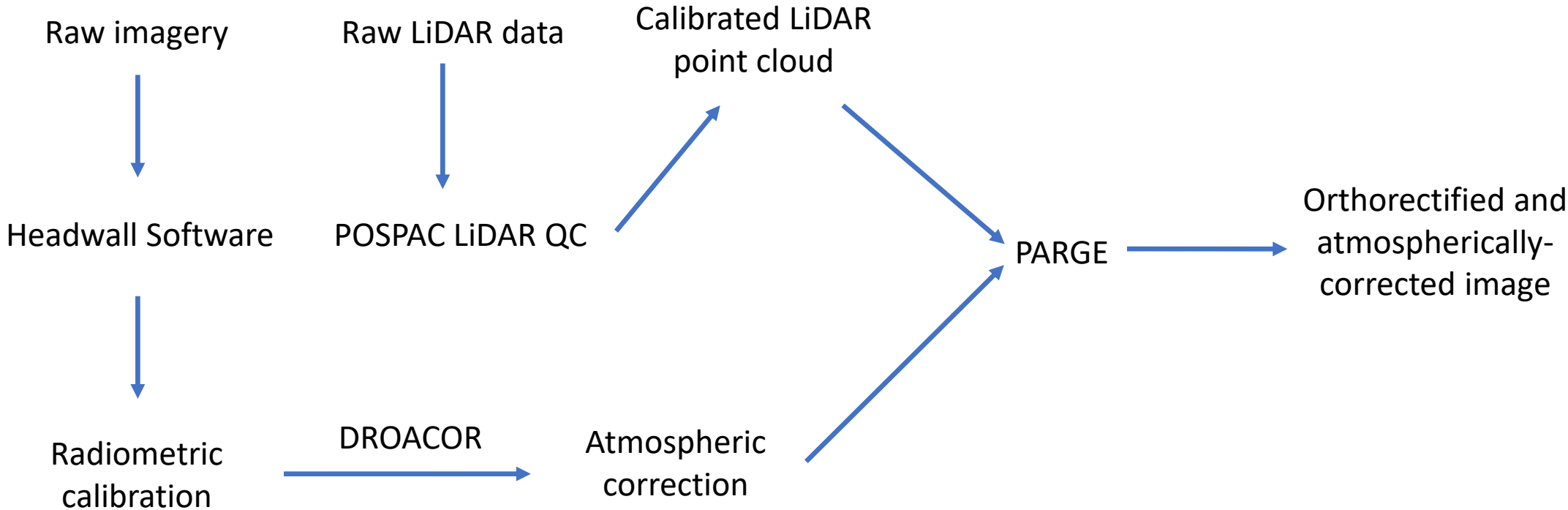
2. Transfer data to NAS

# Network-attached storage



3. Geometric correction/atmospheric correction/Orthorectification

# Geo-correction-POSPAC UAV software ReSe



# How the files look like

The screenshot shows a Windows File Explorer window with the following details:

- Address Bar:** This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
- Left Pane:** Quick access, Desktop, Downloads, Documents, Pictures, Allband\_Allimages, Allimages\_allbands, BORESIGHT, Products, OneDrive - University of Florida, This PC, 3D Objects, Desktop, Documents, Downloads, Music, Pictures, Videos, Windows (C:), Data (D:), USB Drive (E:), Econerv (\\vece-harley-nas.ad.uff.edu) (X:), data1 (\\10.242.84.30) (Z:), USB Drive (E:), Network.
- Main Pane:** A table listing files and folders with columns for Name, Date modified, Type, and Size.

Name	Date modified	Type	Size
AGP	3/29/2023 11:27 AM	File folder	
Apx	11/1/2022 3:30 PM	File folder	
PCAP	11/1/2022 2:33 PM	File folder	
Trimbal	11/1/2022 2:42 PM	File folder	
frameIndex_0.txt	10/31/2022 11:04 AM	Text Document	31 KB
frameIndex_2000.txt	10/31/2022 11:04 AM	Text Document	25 KB
frameIndex_3552.txt	10/31/2022 11:05 AM	Text Document	32 KB
frameIndex_5552.txt	10/31/2022 11:05 AM	Text Document	23 KB
frameIndex_6992.txt	10/31/2022 11:05 AM	Text Document	32 KB
frameIndex_8992.txt	10/31/2022 11:06 AM	Text Document	24 KB
gpsMonitor.json	10/31/2022 11:00 AM	JSON Source File	1 KB
imu_gps.txt	10/31/2022 11:10 AM	Text Document	10,012 KB
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lidar_0.pcap	10/31/2022 11:01 AM	PCAP File	116,396 KB
lidar_100000.pcap	10/31/2022 11:02 AM	PCAP File	116,390 KB
lidar_200000.pcap	10/31/2022 11:03 AM	PCAP File	116,398 KB
lidar_300000.pcap	10/31/2022 11:04 AM	PCAP File	116,391 KB
lidar_400000.pcap	10/31/2022 11:05 AM	PCAP File	116,394 KB
lidar_500000.pcap	10/31/2022 11:06 AM	PCAP File	116,402 KB
lidar_600000.pcap	10/31/2022 11:07 AM	PCAP File	116,410 KB
lidar_700000.pcap	10/31/2022 11:08 AM	PCAP File	116,389 KB
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raw_0.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_0.png	10/31/2022 11:12 AM	PNG File	3,183 KB
raw_0_rd	11/1/2022 2:36 PM	File	1,365,000 KB
raw_0_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_2000	10/31/2022 11:04 AM	File	529,620 KB
raw_2000.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_2000.png	10/31/2022 11:12 AM	PNG File	2,521 KB
raw_2000_rd	11/1/2022 2:36 PM	File	1,059,240 KB
raw_2000_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_3552	10/31/2022 11:05 AM	File	682,500 KB
raw_3552.hdr	10/31/2022 11:05 AM	HDR File	6 KB

57 items State: Online

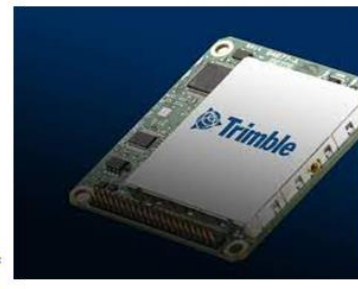
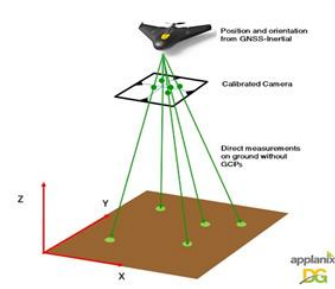
Taskbar: Type here to search, 67°F Sunny, 11:51 AM 3/29/2023

Pin to Quick access Copy Paste Copy path Paste shortcut Move to Copy to Delete Rename New folder Easy access Properties Edit History Select none Invert selection

← → ↕ ↑ > This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju >

- ★ Quick access
- Desktop
- Downloads
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- Allimages\_allbands
- BORESIGHT
- Products
- OneDrive - University of Florida
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)

Name	Date modified	Type	Size
100025_ag2pi_dark_2022_10_31_14_33_03	11/1/2022 2:23 PM	File folder	
100026_ag2pi_2022_10_31_14_33_26	11/1/2022 2:24 PM	File folder	
100027_ag2pi2_dark_2022_10_31_15_00_10	11/1/2022 2:24 PM	File folder	
100028_ag2pi2_2022_10_31_15_00_30	3/29/2023 11:30 AM	File folder	
AGP21	2/17/2023 1:42 PM	File folder	
APX	11/1/2022 3:28 PM	File folder	
Combined_LAS	2/17/2023 1:55 PM	File folder	
Trimba	11/1/2022 3:31 PM	File folder	
Combined_LAS.las	2/17/2023 1:52 PM	LAS File	1,888,541 KB



Pin to Quick access | Copy | Paste | Cut | Copy path | Paste shortcut | Move to | Copy to | Delete | Rename | New folder | Easy access | Properties | Open | Edit | History | Select all | Select none | Invert selection

Clipboard | Organize | New | Open | Select

< > > This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > APX

★ Quick access

- Desktop
- Downloads
- Documents
- Pictures
- Allband\_Allimages
- Allimages\_allbands
- BORESIGHT
- Products

OneDrive - University of Florida

This PC

- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- data1 (\\10.242.84.30) (Z:)
- USB Drive (E:)
- Network

Name	Date modified	Type	Size
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 Size: 1.63 MB  
 Date modified: 11/1/2022 3:43 PM

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename, New folder

New: New item, Easy access

Open: Open, Properties, Edit, History

Select: Select all, Select none, Invert selection

← → ↑ This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anjur > Trimbal

Search Trimbal

- Quick access
  - Desktop
  - Downloads
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  - Allimages\_allbands
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- OneDrive - University of Florida
- This PC
  - 3D Objects
  - Desktop
  - Documents
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  - Music
  - Pictures
  - Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- data1 (\\10.242.84.30) (Z:)
- USB Drive (E:)
- Network

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< Ln 2, Col 153 100% Windows (CRLF) UTF-8

<ul style="list-style-type: none"> <li>econerv (\\ece-naney-nas.ad.un.edu) (x:)</li> <li>data1 (\\10.242.84.30) (Z:)</li> <li>USB Drive (E:)</li> <li>Network</li> </ul>	<ul style="list-style-type: none"> <li>pps.txt</li> <li>pps_time_tag.txt</li> <li>raw_0</li> <li>raw_0.hdr</li> <li>raw_0.png</li> <li>raw_0.rd</li> <li>raw_0_rd.hdr</li> <li>raw_2000</li> <li>raw_2000.hdr</li> </ul>	<ul style="list-style-type: none"> <li>10/31/2022 11:10 AM</li> <li>10/31/2022 11:10 AM</li> <li>10/31/2022 11:04 AM</li> <li>10/31/2022 11:04 AM</li> <li>10/31/2022 11:12 AM</li> <li>11/1/2022 2:36 PM</li> <li>11/1/2022 2:36 PM</li> <li>10/31/2022 11:04 AM</li> <li>10/31/2022 11:04 AM</li> </ul>	<ul style="list-style-type: none"> <li>Text Document</li> <li>Text Document</li> <li>File</li> <li>HDR File</li> <li>PNG File</li> <li>File</li> <li>HDR File</li> <li>File</li> <li>HDR File</li> </ul>	<ul style="list-style-type: none"> <li>19 KB</li> <li>682,500 KB</li> <li>6 KB</li> <li>3,183 KB</li> <li>1,365,000 KB</li> <li>4 KB</li> <li>529,620 KB</li> <li>6 KB</li> </ul>
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imu_gps.txt - Notepad
File Edit Format View Help
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4. 582774024969808 29. 405801875428754 -82. 170891498976317 -1. 530393859063823 639068016 2022/10/31 15:10:23.240000 0 0.0000000000000000
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4. 588461190493717 29. 405801866609000 -82. 170891447561544 -1. 5283174414131678 639091909 2022/10/31 15:10:23.360000 0 0.0000000000000000
4. 588174792210907 29. 405801865871410 -82. 170891443272339 -1. 528135367720549 639093992 2022/10/31 15:10:23.370000 0 0.0000000000000000
4. 587991608229402 29. 405801865151179 -82. 170891439013062 -1. 527959331704896 639095865 2022/10/31 15:10:23.380000 0 0.0000000000000000
4. 586132311259860 29. 405801864419040 -82. 170891434761188 -1. 527789499429540 639097944 2022/10/31 15:10:23.390000 0 0.0000000000000000
4. 584131199659168 29. 405801863660656 -82. 170891430630689 -1. 527629142463227 639100210 2022/10/31 15:10:23.400000 0 0.0000000000000000
4. 583156086996723 29. 405801862865886 -82. 170891426562022 -1. 527473144806366 639101880 2022/10/31 15:10:23.410000 0 0.0000000000000000
4. 582827314185693 29. 405801862030877 -82. 170891422454308 -1. 527309402210099 639104164 2022/10/31 15:10:23.420000 0 0.0000000000000000
4. 583654346153708 29. 405801861171103 -82. 170891418291077 -1. 527137957794834 639106037 2022/10/31 15:10:23.430000 0 0.0000000000000000
4. 585007115291091 29. 405801860319944 -82. 170891414123304 -1. 526962575534573 639107909 2022/10/31 15:10:23.440000 0 0.0000000000000000
4. 586225104536595 29. 405801859504901 -82. 170891409947387 -1. 526785312679106 639109985 2022/10/31 15:10:23.450000 0 0.0000000000000000
4. 587490838884037 29. 405801858726441 -82. 170891405775492 -1. 526612375750865 639111851 2022/10/31 15:10:23.460000 0 0.0000000000000000
4. 587392995684922 29. 405801857977266 -82. 170891401636680 -1. 526446326922373 639113923 2022/10/31 15:10:23.470000 0 0.0000000000000000
4. 586836759138237 29. 405801857240910 -82. 170891397537062 -1. 526285851723701 639115797 2022/10/31 15:10:23.480000 0 0.0000000000000000
4. 585699843117482 29. 405801856510077 -82. 170891393439206 -1. 526131142109036 639117871 2022/10/31 15:10:23.490000 0 0.0000000000000000
4. 583740679559980 29. 405801855771209 -82. 170891389320474 -1. 525977802602851 639119739 2022/10/31 15:10:23.500000 0 0.0000000000000000
4. 582857026298086 29. 405801854987235 -82. 170891385177484 -1. 525821163707538 639123966 2022/10/31 15:10:23.510000 0 0.0000000000000000
4. 582453278120738 29. 405801854158081 -82. 170891380994988 -1. 525656095513928 639124000 2022/10/31 15:10:23.520000 0 0.0000000000000000
4. 583207351783415 29. 405801853307352 -82. 170891376760864 -1. 525479946827464 639125959 2022/10/31 15:10:23.530000 0 0.0000000000000000
4. 584815856644639 29. 405801852465938 -82. 170891372499412 -1. 525297705678527 639127685 2022/10/31 15:10:23.540000 0 0.0000000000000000
4. 586488471657617 29. 405801851657422 -82. 170891368243204 -1. 525113433709227 639129796 2022/10/31 15:10:23.550000 0 0.0000000000000000
```

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

File Name	Date/Time	Type	Size
pps.txt	10/31/2022 11:10 AM	Text Document	19 KB
pps_time_tag.txt	10/31/2022 11:04 AM	Text Document	19 KB
raw_0	10/31/2022 11:04 AM	File	682,500 KB
raw_0.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_0.png	10/31/2022 11:12 AM	PNG File	3,183 KB
raw_0_rd	11/1/2022 2:36 PM	File	1,365,000 KB
raw_0_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_2000	10/31/2022 11:04 AM	File	529,620 KB
raw_2000.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_2000.png	10/31/2022 11:12 AM	PNG File	2,521 KB
raw_2000_rd	11/1/2022 2:36 PM	File	1,059,240 KB
raw_2000_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_3552	10/31/2022 11:05 AM	File	682,500 KB
raw_3552.hdr	10/31/2022 11:05 AM	HDR File	6 KB

File Explorer window showing a directory of T04 files. The address bar indicates the path: This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > APX. The file list contains 12 items, all of which are T04 files. A tooltip is visible over the file 5809C00340202210311512.T04, showing its type, size (3.07 MB), and date modified (11/1/2022 3:42 PM).

Name	Date modified	Type	Size
5809C00340202210311430.T04	11/1/2022 3:43 PM	T04 File	1,680 KB
5809C00340202210311433.T04	11/1/2022 3:43 PM	T04 File	2,205 KB
5809C00340202210311436.T04	11/1/2022 3:43 PM	T04 File	422 KB
5809C00340202210311439.T04	11/1/2022 3:43 PM	T04 File	416 KB
5809C00340202210311442.T04	11/1/2022 3:43 PM	T04 File	1,373 KB
5809C00340202210311445.T04	11/1/2022 3:43 PM	T04 File	4,000 KB
5809C00340202210311457.T04	11/1/2022 3:43 PM	T04 File	2,375 KB
5809C00340202210311500.T04	11/1/2022 3:42 PM	T04 File	4,979 KB
5809C00340202210311503.T04	11/1/2022 3:42 PM	T04 File	5,125 KB
5809C00340202210311506.T04	11/1/2022 3:42 PM	T04 File	5,077 KB
5809C00340202210311509.T04	11/1/2022 3:42 PM	T04 File	4,911 KB
5809C00340202210311512.T04	11/1/2022 3:42 PM	T04 File	3,152 KB

12 items 6 items selected 25.0 MB State: Online

67°F Sunny 11:55 AM 3/29/2023

100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

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File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, Easy access

Open: Properties, Open, History

Select: Select all, Select none, Invert selection

This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Name	Date modified	Type	Size
AGP	3/29/2023 11:27 AM	File folder	
APX	3/29/2023 11:35 AM	File folder	
PCAP	3/29/2023 11:35 AM	File folder	
frameindex_0.txt	10/31/2022 11:04 AM	Text Document	31 KB
frameindex_2000.txt	10/31/2022 11:04 AM	Text Document	25 KB
frameindex_3552.txt	10/31/2022 11:05 AM	Text Document	32 KB
frameindex_5552.txt	10/31/2022 11:05 AM	Text Document	23 KB
frameindex_6992.txt	10/31/2022 11:05 AM	Text Document	32 KB
frameindex_8992.txt	10/31/2022 11:06 AM	Text Document	24 KB
gpsMonitor.json	10/31/2022 11:00 AM	JSON Source File	1 KB
imu_gps.txt	10/31/2022 11:10 AM	Text Document	10,012 KB
lidar.pcap.idx	10/31/2022 11:10 AM	IDX File	285 KB
lidar_0.pcap	10/31/2022 11:01 AM	PCAP File	116,396 KB
lidar_100000.pcap	10/31/2022 11:02 AM	PCAP File	116,390 KB
lidar_200000.pcap	10/31/2022 11:03 AM	PCAP File	116,398 KB
lidar_300000.pcap	10/31/2022 11:04 AM	PCAP File	116,391 KB
lidar_400000.pcap	10/31/2022 11:05 AM	PCAP File	116,394 KB
lidar_500000.pcap	10/31/2022 11:06 AM	PCAP File	116,402 KB
lidar_600000.pcap	10/31/2022 11:07 AM	PCAP File	116,410 KB
lidar_700000.pcap	10/31/2022 11:08 AM	PCAP File	116,389 KB
lidar_800000.pcap	10/31/2022 11:09 AM	PCAP File	116,392 KB
lidar_900000.pcap	10/31/2022 11:10 AM	PCAP File	10,982 KB
ortho.ini	11/2/2022 4:38 PM	Configuration sett...	1 KB
pps.txt	10/31/2022 11:10 AM	Text Document	7 KB
pps_time_tag.txt	10/31/2022 11:10 AM	Text Document	19 KB
raw_0	10/31/2022 11:04 AM	File	682,500 KB
raw_0.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_0.png	10/31/2022 11:12 AM	PNG File	3,183 KB
raw_0_rd	11/1/2022 2:36 PM	File	1,365,000 KB
raw_0_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_2000	10/31/2022 11:04 AM	File	529,620 KB
raw_2000.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_2000.png	10/31/2022 11:12 AM	PNG File	2,521 KB
raw_2000_rd	11/1/2022 2:36 PM	File	1,059,240 KB
raw_2000_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_3552	10/31/2022 11:05 AM	File	682,500 KB
raw_3552.hdr	10/31/2022 11:05 AM	HDR File	6 KB
raw_3552.png	10/31/2022 11:12 AM	PNG File	2,831 KB

56 items 10 items selected 1.00 GB State: Online

Type here to search

67°F Sunny 11:56 AM 3/29/2023

2:22 PM 05/15/2023

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, Easy access, New item

Open: Properties, Edit, History

Select: Select all, Select none, Invert selection

← → ↑ > This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Name	Date modified	Type	Size
AGP	3/29/2023 11:27 AM	File folder	
APX	3/29/2023 11:35 AM	File folder	
PCAP	3/29/2023 11:35 AM	File folder	
frameIndex_0.txt	10/31/2022 11:04 AM	Text Document	31 KB
frameIndex_2000.txt	10/31/2022 11:04 AM	Text Document	25 KB
frameIndex_3552.txt	10/31/2022 11:05 AM	Text Document	32 KB
frameIndex_5552.txt	10/31/2022 11:05 AM	Text Document	23 KB
frameIndex_6992.txt	10/31/2022 11:05 AM	Text Document	32 KB
frameIndex_8992.txt	10/31/2022 11:06 AM	Text Document	24 KB
gpsMonitor.json	10/31/2022 11:00 AM	JSON Source File	1 KB
imu_gps.txt	10/31/2022 11:10 AM	Text Document	10,012 KB
lidar.pcap.idx	10/31/2022 11:10 AM	IDX File	285 KB
ortho.ini	11/2/2022 4:38 PM	Configuration sett...	1 KB
pps.txt	10/31/2022 11:10 AM	Text Document	7 KB
pps_time_tag.txt	10/31/2022 11:10 AM	Text Document	19 KB
raw_0	10/31/2022 11:04 AM	File	682,500 KB
raw_0.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_0.png	10/31/2022 11:12 AM	PNG File	3,183 KB
raw_0_rd	11/1/2022 2:36 PM	File	1,365,000 KB
raw_0_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_2000	10/31/2022 11:04 AM	File	529,620 KB
raw_2000.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_2000.png	10/31/2022 11:12 AM	PNG File	2,521 KB
raw_2000_rd	11/1/2022 2:36 PM	File	1,059,240 KB
raw_2000_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_3552	10/31/2022 11:05 AM	File	682,500 KB
raw_3552.hdr	10/31/2022 11:05 AM	HDR File	6 KB
raw_3552.png	10/31/2022 11:12 AM	PNG File	2,831 KB
raw_3552_rd	11/1/2022 2:37 PM	File	1,365,000 KB
raw_3552_rd.hdr	11/1/2022 2:37 PM	HDR File	4 KB
raw_5552	10/31/2022 11:05 AM	File	491,400 KB
raw_5552.hdr	10/31/2022 11:05 AM	HDR File	6 KB
raw_5552.png	10/31/2022 11:12 AM	PNG File	2,044 KB
raw_5552_rd	11/1/2022 2:37 PM	File	982,800 KB
raw_5552_rd.hdr	11/1/2022 2:37 PM	HDR File	4 KB
raw_6992	10/31/2022 11:05 AM	File	682,500 KB
raw_6992.hdr	10/31/2022 11:05 AM	HDR File	6 KB
raw_6992.png	10/31/2022 11:12 AM	PNG File	2,824 KB

Type here to search

Taskbar icons: File Explorer, Microsoft Edge, Word, PowerPoint, Teams, OneDrive, Photos, Settings, Network, Volume, Network, Date/Time

2:23 PM 05/15/2023

Recycle Bin MyIT IF-ABE-WKSI... MiniTool ShadowMaker IFAS Printers

Adobe Acrobat Reader Notepad++ Daluca\_soil.xlsx

CloudCompare OceanView MiniTool Partition Wizard

Convert To RINEX **POSPac UAV 8.8** Daluca\_soil.pdf

Google Chrome Zoom Daluca tissue samples.pdf


R 4.2.3 Microsoft Teams Daluca tissue samples.xlsx

applanix  
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Trust your position

# POSPac™ UAV

Direct Georeferencing for Unmanned Aerial Vehicles

8.8 (8.8.8213.33924) (64-bit)



Initializing main form

[www.applanix.com](http://www.applanix.com)

Taskbar icons: File Explorer, Edge, Word, Excel, and other background applications.

Import

Import Folder  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\PCAP

Select File(s)

File Name	File Type
lidar_0.pcap	Velodyne PCAP
lidar_100000.pcap	Velodyne PCAP

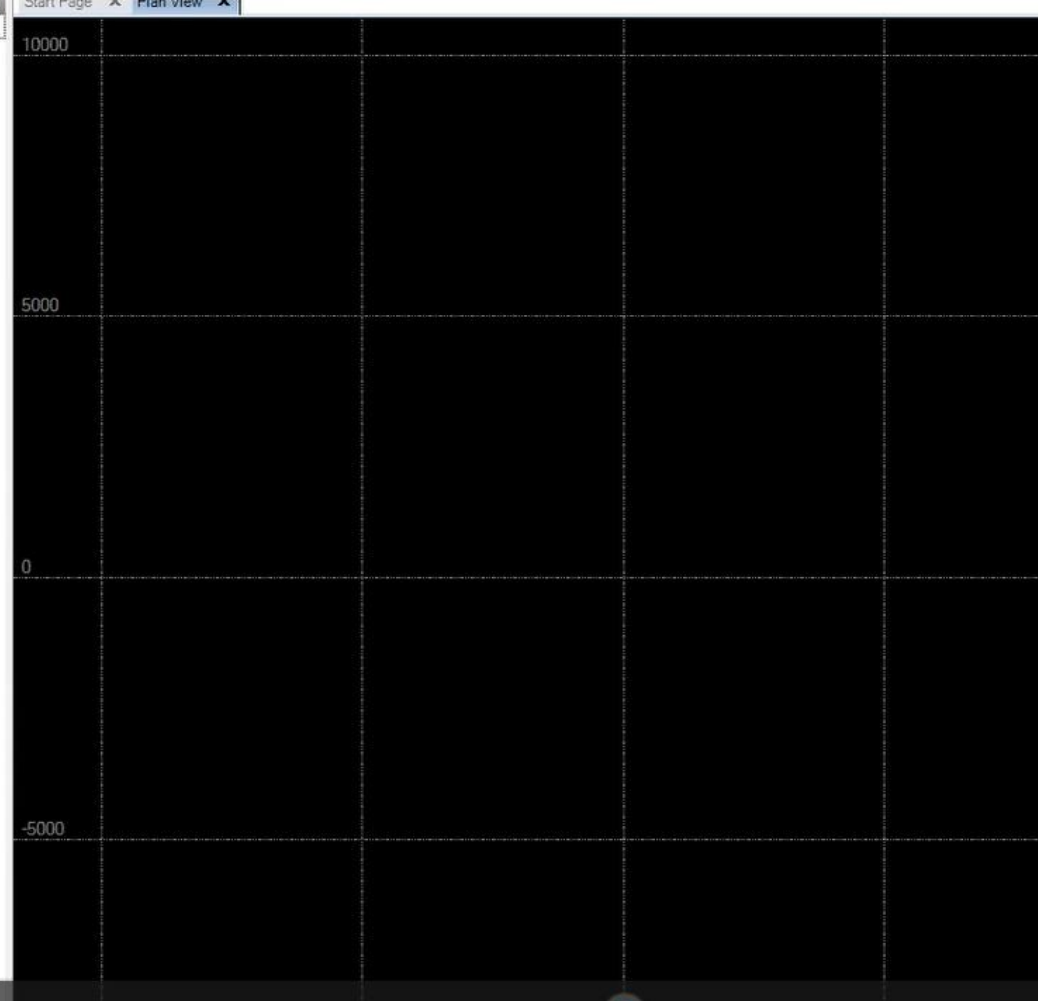
Browse For Folder

Import Folder

- > 2022\_07\_08\_Navdeep
- > 2022\_08\_04\_Anju
- > 2022\_08\_10\_corn\_Ayush
- > 2022\_09\_15\_PSREU\_aerial
- > 2022\_10\_28\_Citra\_aerial
- ▼ 2022\_10\_31\_Anju
  - 100025\_ag2pi\_dark\_2022\_10\_31\_14\_33\_03
  - 100026\_ag2pi\_2022\_10\_31\_14\_33\_26
  - 100027\_ag2pi2\_dark\_2022\_10\_31\_15\_00\_10
  - ▼ 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
    - > AGP
    - APJ
    - PCAP
  - > AGP21
  - > APX
  - > Combined\_LAS
  - Trimbai
- 100034\_TH\_B3\_N\_dark\_2022\_12\_02\_20\_48\_05
- > 100035\_TH\_B3\_N\_2022\_12\_02\_20\_48\_23

Type: File folder  
Date modified: 3/29/2023 11:35 AM

Make New Folder OK Cancel



Import

Import Folder  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\Apx

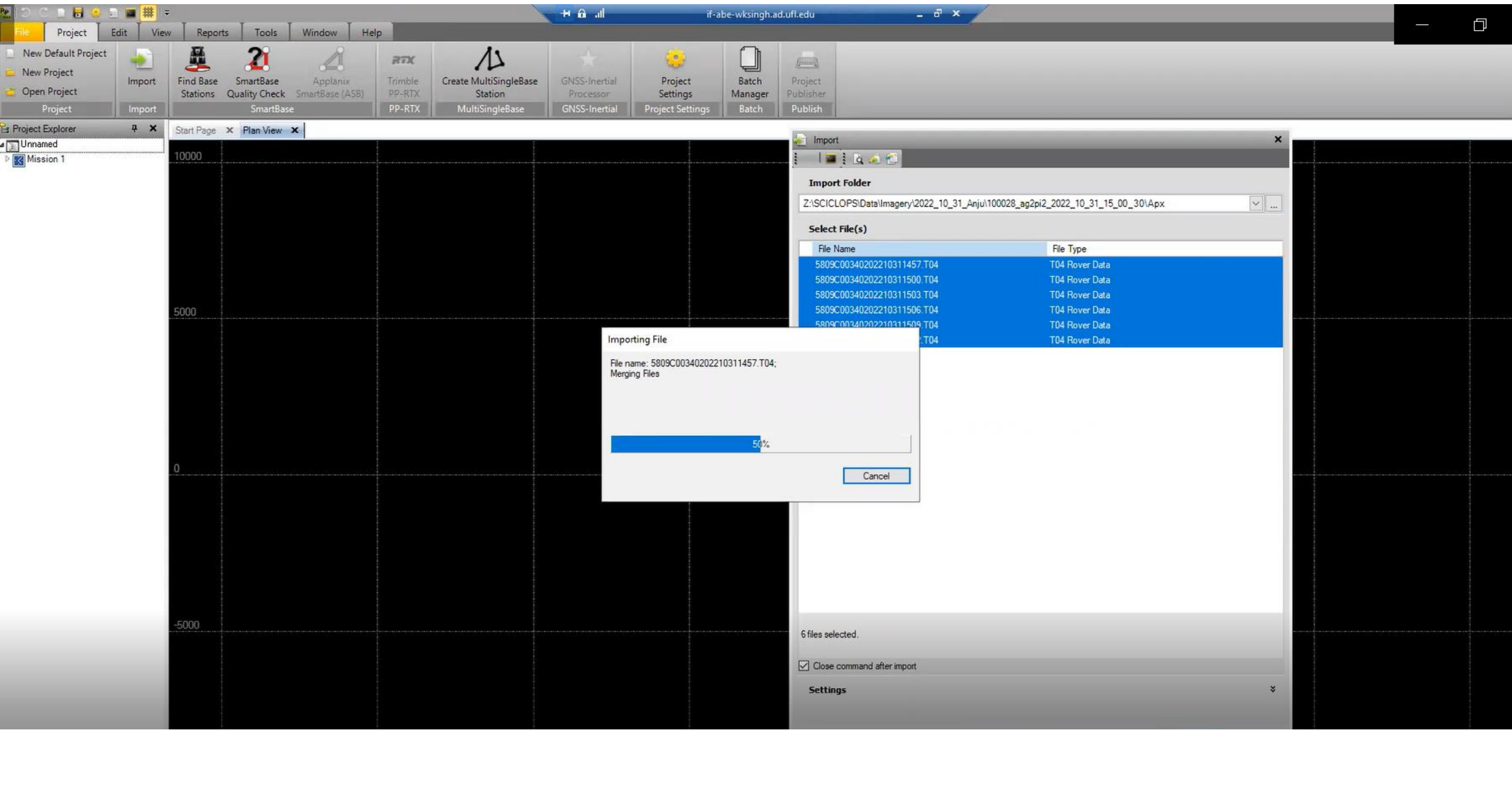
Select File(s)

File Name	File Type
5809C00340202210311457.T04	T04 Rover Data
5809C00340202210311500.T04	T04 Rover Data
5809C00340202210311503.T04	T04 Rover Data
5809C00340202210311506.T04	T04 Rover Data
5809C00340202210311509.T04	T04 Rover Data
5809C00340202210311512.T04	T04 Rover Data

6 files selected.

Close command after import

Settings



Project Explorer: Unnamed, Mission 1

Start Page | Plan View

Find Base Stations | SmartBase Quality Check | Applanix SmartBase (ASB) | Trimble PP-RTX | Create MultiSingleBase Station | GNSS-Inertial Processor | Project Settings | Batch Manager | Project Publisher

Import

Import Folder: Z:\ISCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\Apx

Select File(s)

File Name	File Type
5809C00340202210311457.T04	T04 Rover Data
5809C00340202210311500.T04	T04 Rover Data
5809C00340202210311503.T04	T04 Rover Data
5809C00340202210311506.T04	T04 Rover Data
5809C00340202210311509.T04	T04 Rover Data
5809C00340202210311512.T04	T04 Rover Data

6 files selected.

Close command after import

Settings

Importing File

File name: 5809C00340202210311457.T04;  
Merging Files

50%

Cancel



Project Explorer

Start Page x Plan View x

Import

Import Folder

Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\Apx

Select File(s)

File Name	File Type
T04 Rover Data	T04 Rover Data
T04 Rover Data	T04 Rover Data
T04 Rover Data	T04 Rover Data
T04 Rover Data	T04 Rover Data
T04 Rover Data	T04 Rover Data
T04 Rover Data	T04 Rover Data

6 files selected.

Close command after import

Settings

Import Close

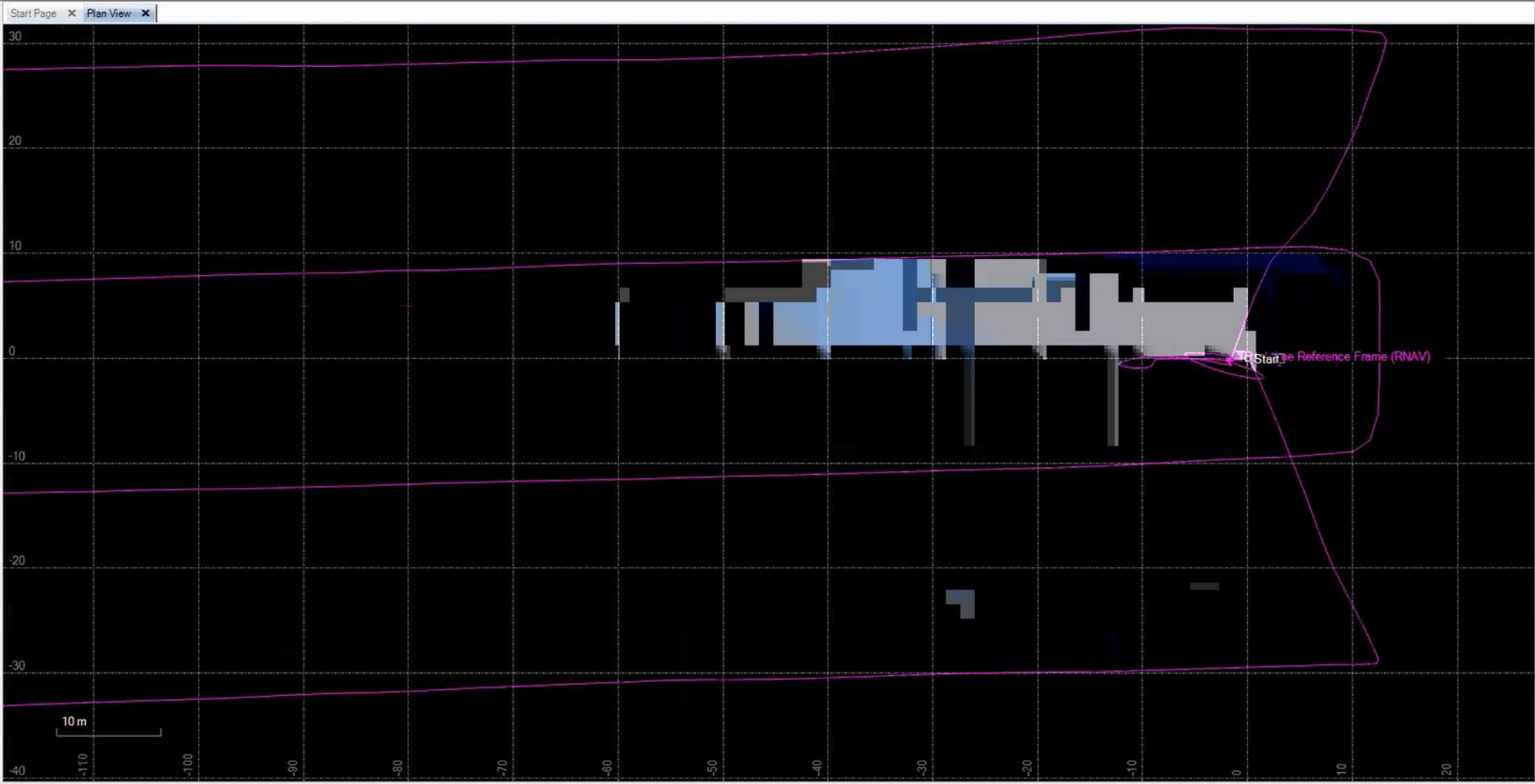
Broadcast/Precise Ephemeris Data Download

Download	Product	File Name	Status	Progress	Bytes	Service
<input type="checkbox"/>	GPS Ephemerides	Ephm3040.22h	Downloaded	100%	55149	TRIMBLE
<input type="checkbox"/>	GPS Precise Eph...	igs22340.sp3	Downloaded	100%	99519	CORS
<input type="checkbox"/>	GPS Precise Eph...	igs22341.sp3	Downloaded	100%	99511	CORS
<input type="checkbox"/>	GPS Precise Eph...	igs22342.sp3	Downloaded	100%	99521	CORS
<input type="checkbox"/>	GLONASS Ephem...	Ephm3040.22g	Downloaded	100%	74674	TRIMBLE
<input checked="" type="checkbox"/>	P1-P2 DCB	P1P22210.DCB				CODE
<input type="checkbox"/>	GLONASS Precise...	igl22340.sp3	Downloaded	100%	57257	CORS
<input type="checkbox"/>	GLONASS Precise...	igl22341.sp3	Downloaded	100%	57351	CORS
<input type="checkbox"/>	GLONASS Precise...	igl22342.sp3	Downloaded	100%	57273	CORS

Select Preview Express Mode Download Cancel Downloads Import Close

Project Explorer

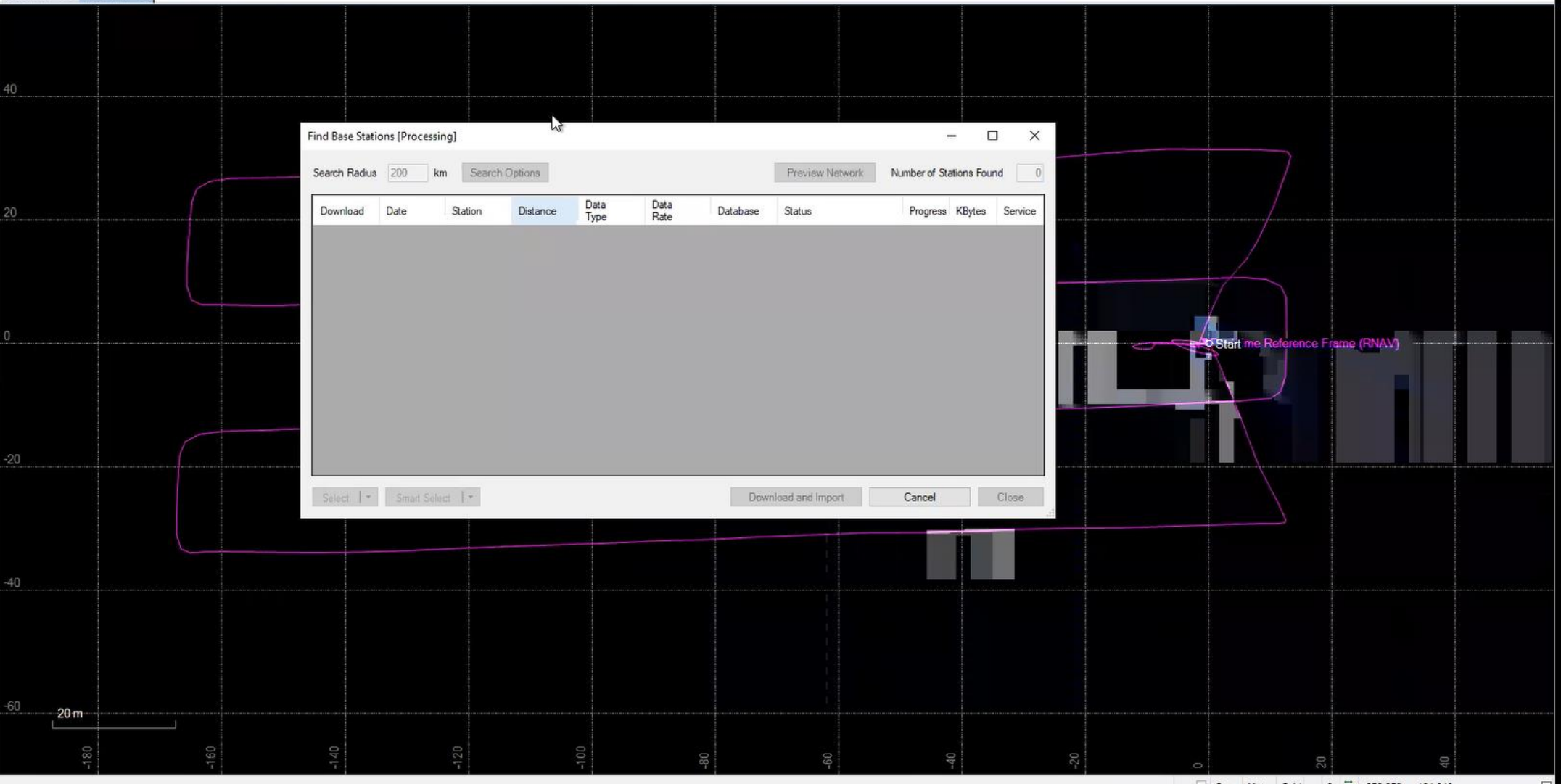
- Unnamed
  - Mission 1



### Find Base Stations [Processing]

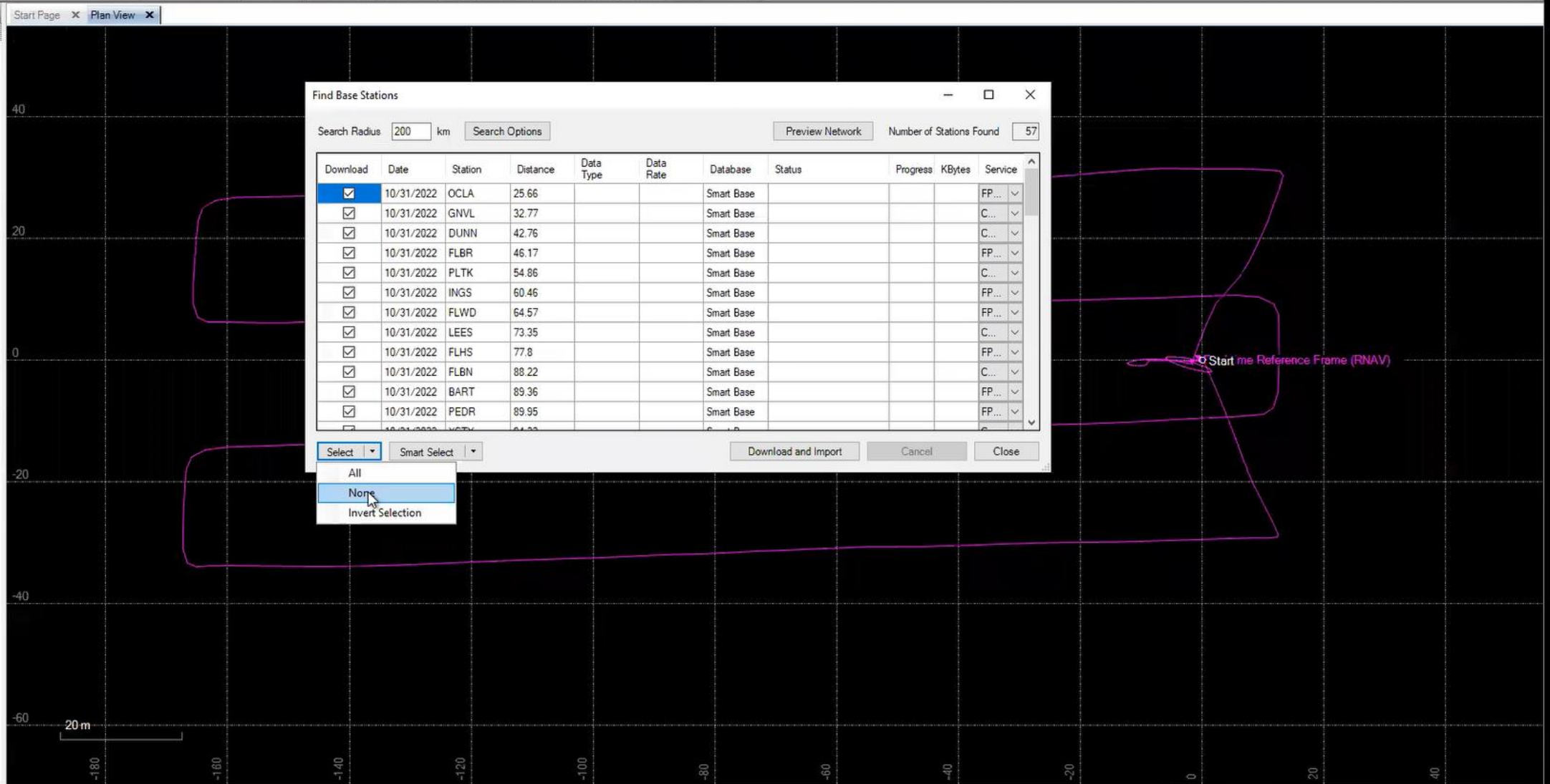
Search Radius: 200 km   Number of Stations Found: 0

Download	Date	Station	Distance	Data Type	Data Rate	Database	Status	Progress	KBytes	Service
----------	------	---------	----------	-----------	-----------	----------	--------	----------	--------	---------



Project Explorer

- Unnamed
- Mission 1



### Find Base Stations

Search Radius: 200 km Search Options Preview Network Number of Stations Found: 57

Download	Date	Station	Distance	Data Type	Data Rate	Database	Status	Progress	KBytes	Service
<input checked="" type="checkbox"/>	10/31/2022	OCLA	25.66			Smart Base				FP... ▾
<input checked="" type="checkbox"/>	10/31/2022	GNVL	32.77			Smart Base				C... ▾
<input checked="" type="checkbox"/>	10/31/2022	DUNN	42.76			Smart Base				C... ▾
<input checked="" type="checkbox"/>	10/31/2022	FLBR	46.17			Smart Base				FP... ▾
<input checked="" type="checkbox"/>	10/31/2022	PLTK	54.86			Smart Base				C... ▾
<input checked="" type="checkbox"/>	10/31/2022	INGS	60.46			Smart Base				FP... ▾
<input checked="" type="checkbox"/>	10/31/2022	FLWD	64.57			Smart Base				FP... ▾
<input checked="" type="checkbox"/>	10/31/2022	LEES	73.35			Smart Base				C... ▾
<input checked="" type="checkbox"/>	10/31/2022	FLHS	77.8			Smart Base				FP... ▾
<input checked="" type="checkbox"/>	10/31/2022	FLBN	88.22			Smart Base				C... ▾
<input checked="" type="checkbox"/>	10/31/2022	BART	89.36			Smart Base				FP... ▾
<input checked="" type="checkbox"/>	10/31/2022	PEDR	89.95			Smart Base				FP... ▾

Select ▾ Smart Select ▾

Download and Import Cancel Close

- All
- None
- Invert Selection

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File Project Edit View Reports Tools Window Help

New Default Project New Project Open Project

Import Find Base Stations SmartBase Quality Check SmartBase (ASB) Applanix SmartBase (ASB)

RTX Trimble PP-RTX PP-RTX Create MultiSingleBase Station GNSS-Inertial Processor Project Settings Batch Manager Project Publisher

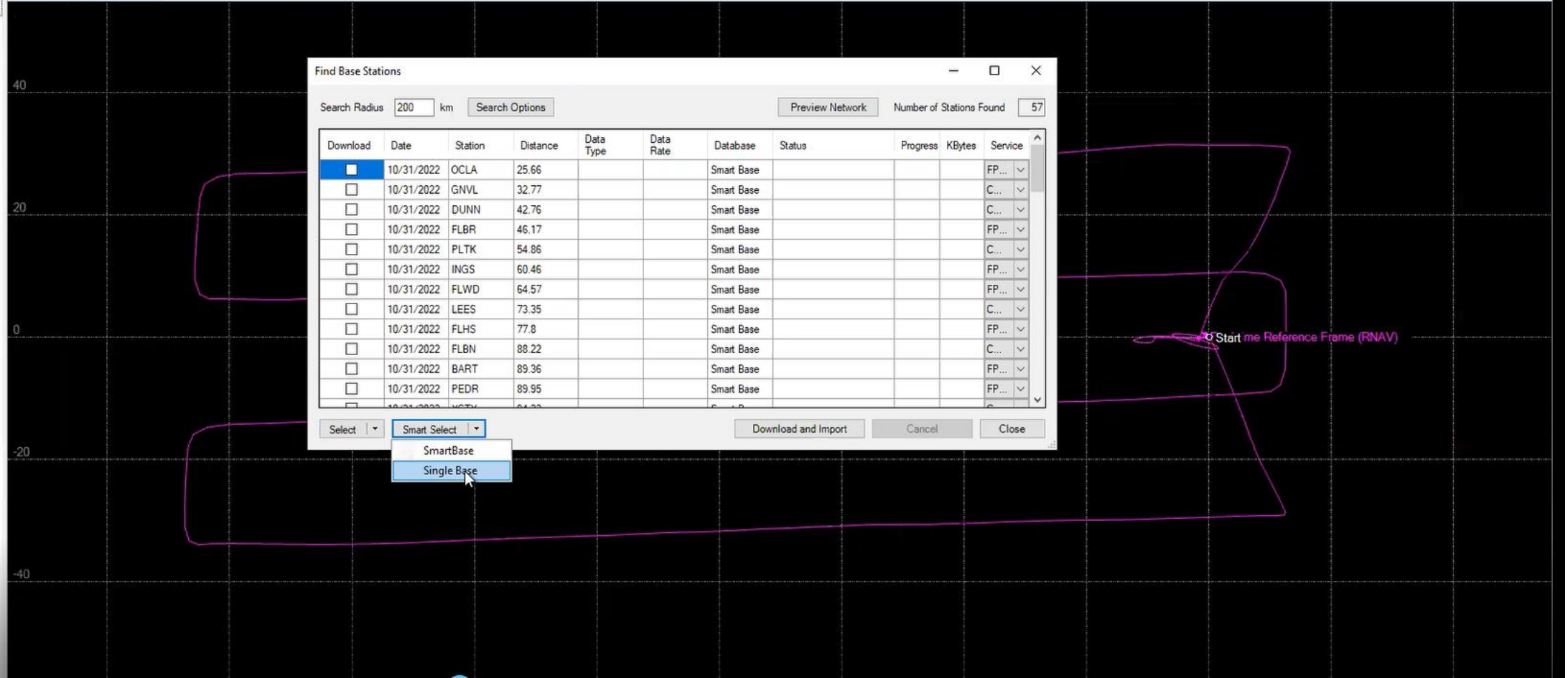
Project Import Project Settings Batch Publish

Project Explorer

Start Page Plan View

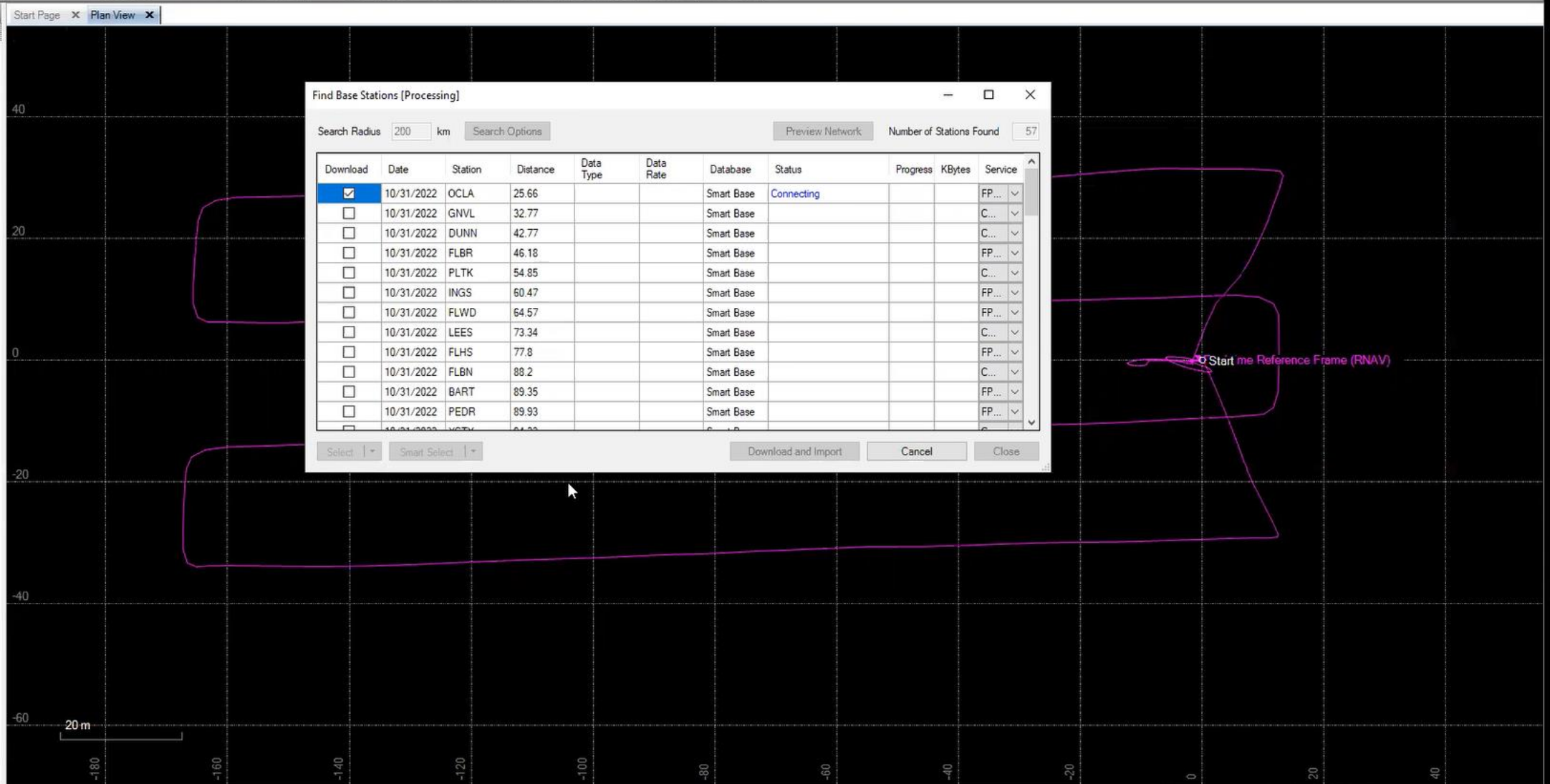
Unnamed

Mission 1



Project Explorer

- Unnamed
- Mission 1



Find Base Stations [Processing]

Search Radius: 200 km Search Options Preview Network Number of Stations Found: 57

Download	Date	Station	Distance	Data Type	Data Rate	Database	Status	Progress	KBytes	Service
<input checked="" type="checkbox"/>	10/31/2022	OCLA	25.66			Smart Base	Connecting			FP... ▾
<input type="checkbox"/>	10/31/2022	GNVL	32.77			Smart Base				C... ▾
<input type="checkbox"/>	10/31/2022	DUNN	42.77			Smart Base				C... ▾
<input type="checkbox"/>	10/31/2022	FLBR	46.18			Smart Base				FP... ▾
<input type="checkbox"/>	10/31/2022	PLTK	54.85			Smart Base				C... ▾
<input type="checkbox"/>	10/31/2022	INGS	60.47			Smart Base				FP... ▾
<input type="checkbox"/>	10/31/2022	FLWD	64.57			Smart Base				FP... ▾
<input type="checkbox"/>	10/31/2022	LEES	73.34			Smart Base				C... ▾
<input type="checkbox"/>	10/31/2022	FLHS	77.8			Smart Base				FP... ▾
<input type="checkbox"/>	10/31/2022	FLBN	88.2			Smart Base				C... ▾
<input type="checkbox"/>	10/31/2022	BART	89.35			Smart Base				FP... ▾
<input type="checkbox"/>	10/31/2022	PEDR	89.93			Smart Base				FP... ▾

Select | Smart Select | Download and Import | Cancel | Close

Start the Reference Frame (RNAV)

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File Project Edit View Reports Tools Window Help

New Default Project New Project Open Project

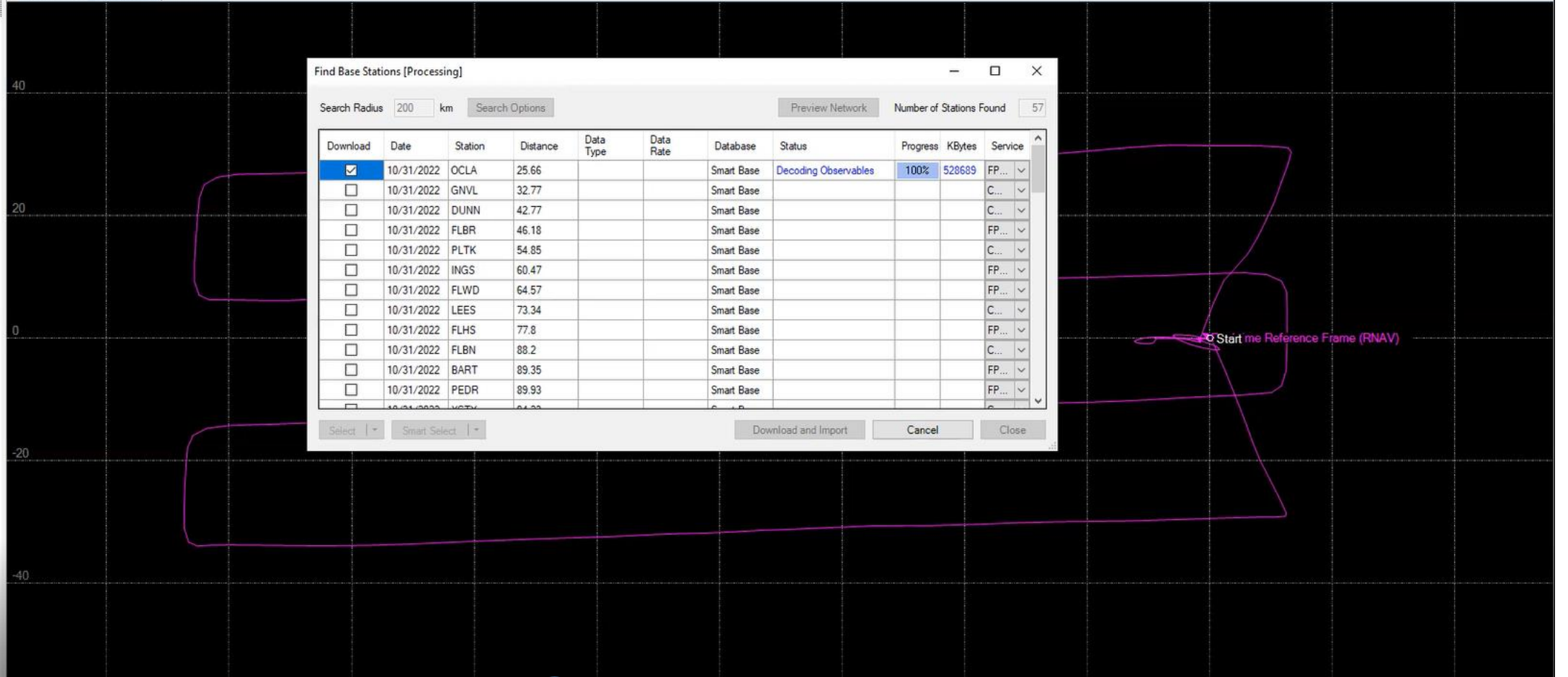
Import Find Base Stations SmartBase Quality Check Applanix SmartBase (ASB) Trimble PP-RTX Create MultiSingleBase GNSS-Inertial Processor Project Settings Batch Manager Project Publisher

Project Explorer

Start Page Plan View

Unnamed

Mission 1



Find Base Stations [Processing]

Search Radius: 200 km Search Options Preview Network Number of Stations Found: 57

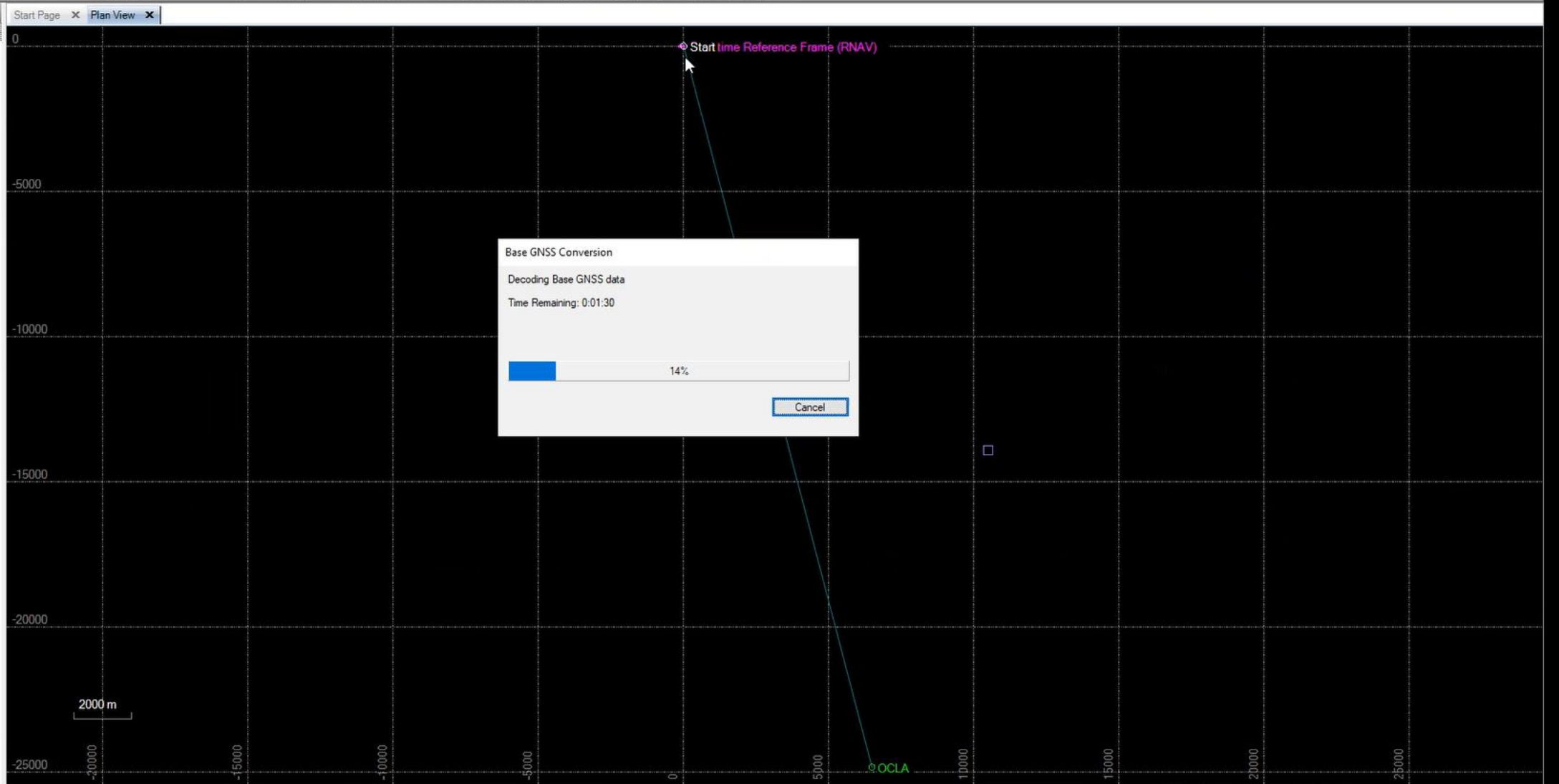
Download	Date	Station	Distance	Data Type	Data Rate	Database	Status	Progress	KBytes	Service
<input checked="" type="checkbox"/>	10/31/2022	OCLA	25.66			Smart Base	Decoding Observables	100%	528689	FP... v
<input type="checkbox"/>	10/31/2022	GNVL	32.77			Smart Base				C... v
<input type="checkbox"/>	10/31/2022	DUNN	42.77			Smart Base				C... v
<input type="checkbox"/>	10/31/2022	FLBR	46.18			Smart Base				FP... v
<input type="checkbox"/>	10/31/2022	PLTK	54.85			Smart Base				C... v
<input type="checkbox"/>	10/31/2022	INGS	60.47			Smart Base				FP... v
<input type="checkbox"/>	10/31/2022	FLWD	64.57			Smart Base				FP... v
<input type="checkbox"/>	10/31/2022	LEES	73.34			Smart Base				C... v
<input type="checkbox"/>	10/31/2022	FLHS	77.8			Smart Base				FP... v
<input type="checkbox"/>	10/31/2022	FLBN	88.2			Smart Base				C... v
<input type="checkbox"/>	10/31/2022	BART	89.35			Smart Base				FP... v
<input type="checkbox"/>	10/31/2022	PEDR	89.93			Smart Base				FP... v

Select Smart Select Download and Import Cancel Close

Start the Reference Frame (RNAV)

Project Explorer

- Unnamed
- Mission 1



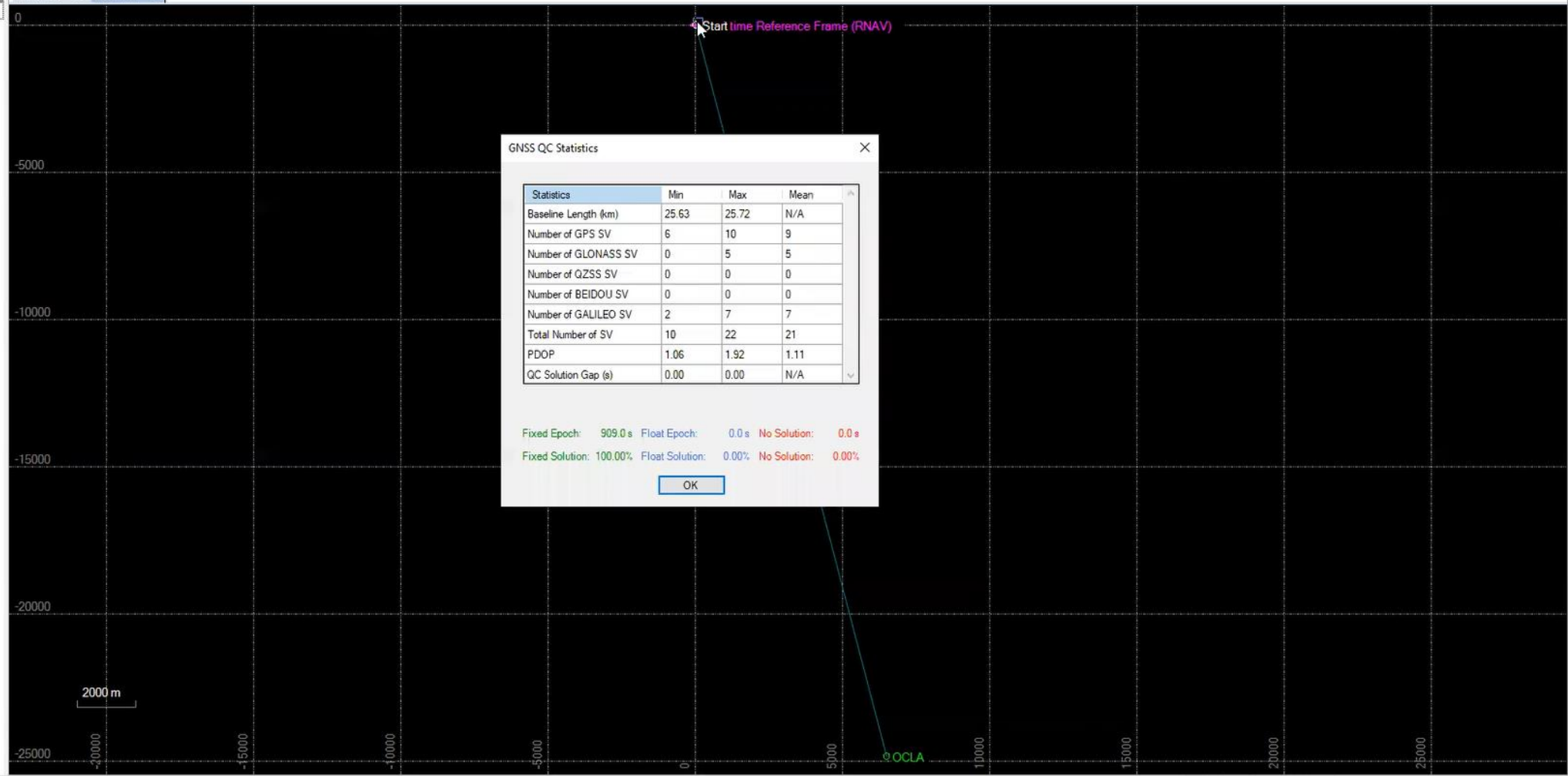


File Project Edit View Reports Tools Window Help

New Default Project Import Find Base Stations SmartBase Quality Check Applanix SmartBase (ASB) Trimble PP-RTX Create MultiSingleBase GNSS-Inertial Processor Project Settings Batch Manager Project Publisher

Project Explorer Unnamed Mission 1

Start Page Plan View

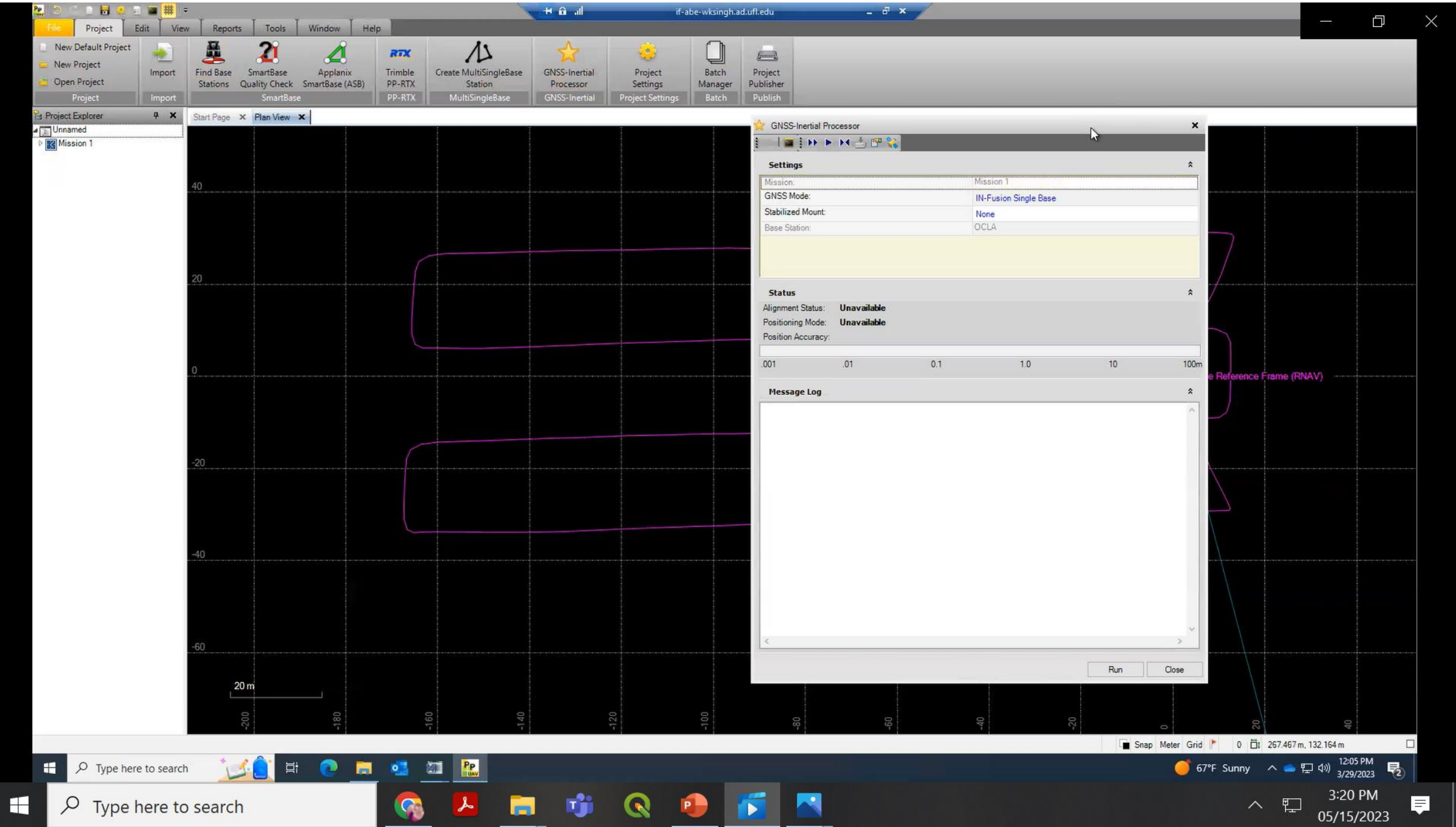


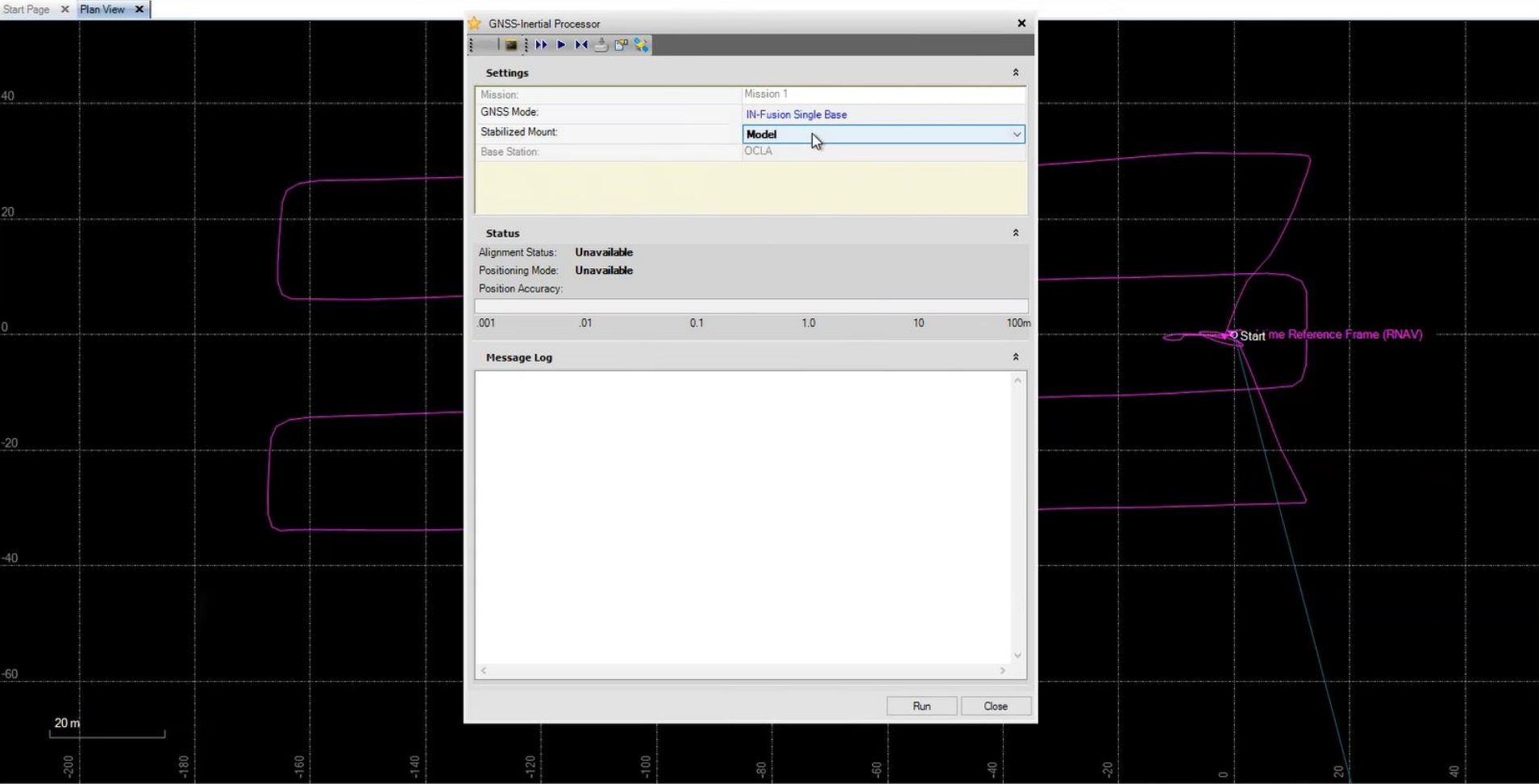
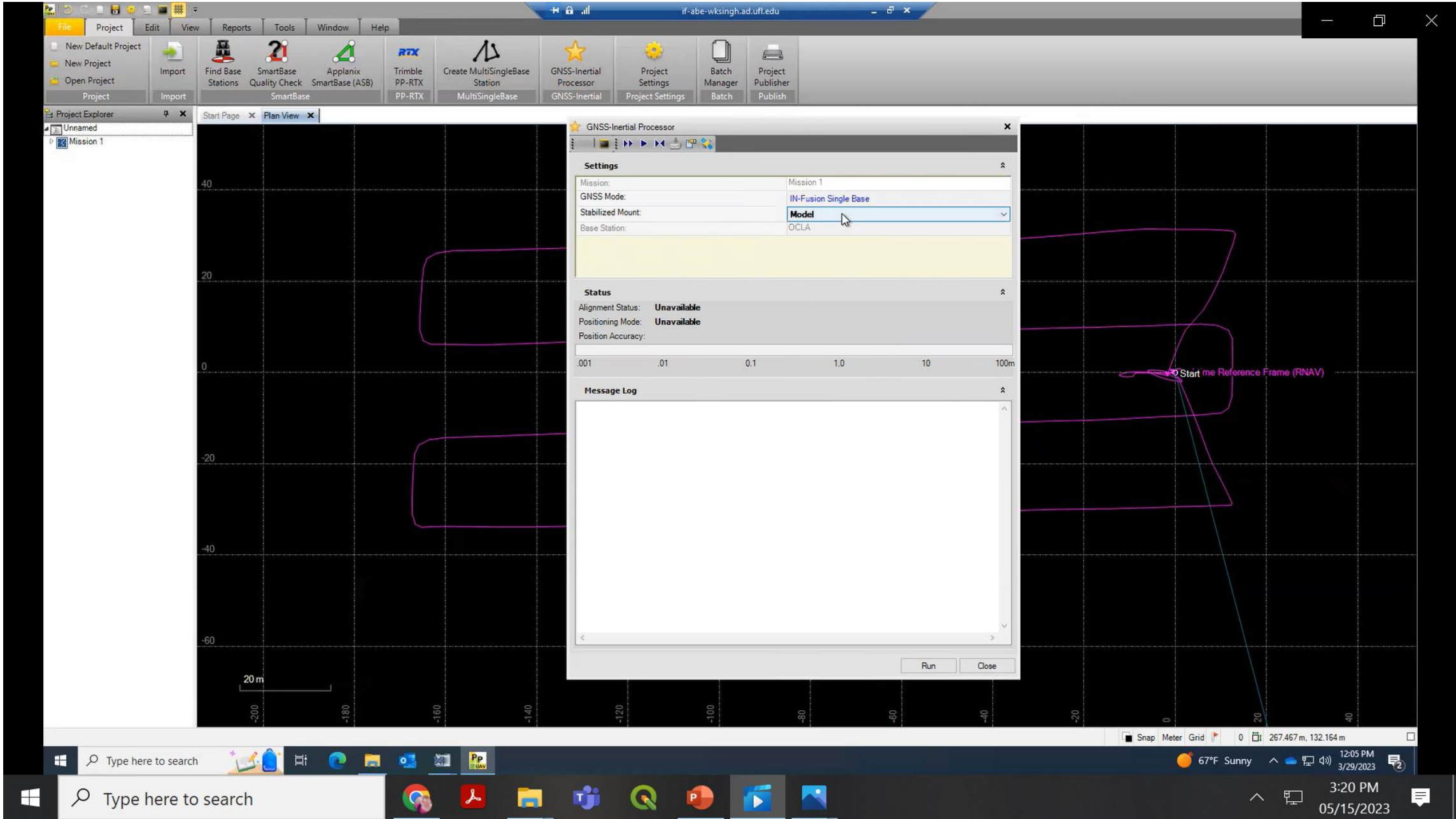
GNSS QC Statistics

Statistics	Min	Max	Mean
Baseline Length (km)	25.63	25.72	N/A
Number of GPS SV	6	10	9
Number of GLONASS SV	0	5	5
Number of QZSS SV	0	0	0
Number of BEIDOU SV	0	0	0
Number of GALILEO SV	2	7	7
Total Number of SV	10	22	21
PDOP	1.06	1.92	1.11
QC Solution Gap (s)	0.00	0.00	N/A

Fixed Epoch: 909.0 s Float Epoch: 0.0 s No Solution: 0.0 s  
 Fixed Solution: 100.00% Float Solution: 0.00% No Solution: 0.00%

OK





GNSS-Inertial Processor

Settings

Mission: Mission 1

GNSS Mode: IN-Fusion Single Base

Stabilized Mount: Model

Base Station: OCLA

Status

Alignment Status: Unavailable

Positioning Mode: Unavailable

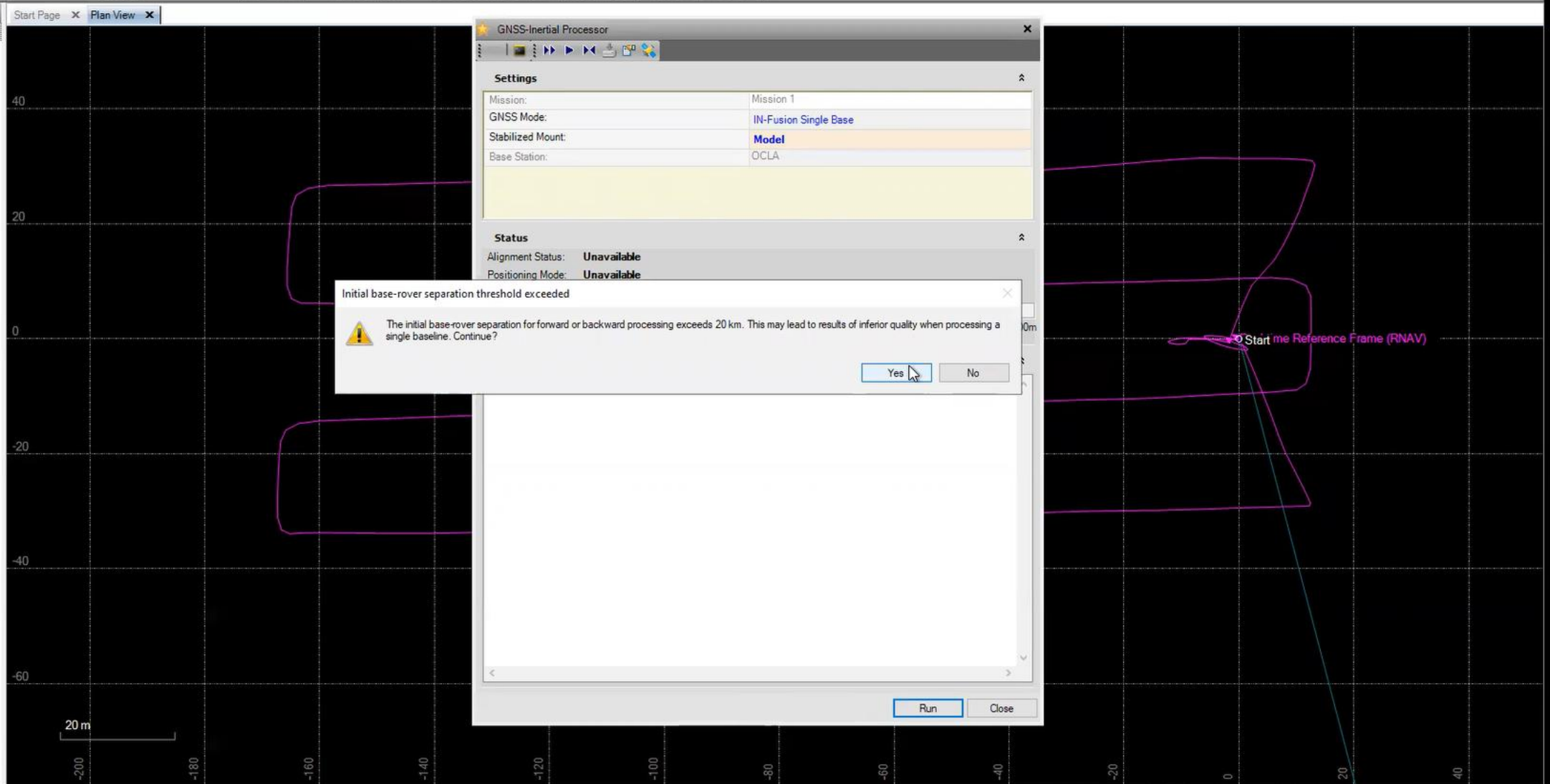
Position Accuracy: .001 .01 0.1 1.0 10 100m

Message Log

Run Close

Project Explorer

- Unnamed
  - Mission 1



**Initial base-rover separation threshold exceeded**

The initial base-rover separation for forward or backward processing exceeds 20 km. This may lead to results of inferior quality when processing a single baseline. Continue?

Yes No

Project Explorer

Start Page x Plan View x



### GNSS-Inertial Processor

Settings

Mission:	Mission 1
GNSS Mode:	IN-Fusion Single Base
Stabilized Mount:	Model
Base Station:	OCLA

Status

Alignment Status: **Unavailable**

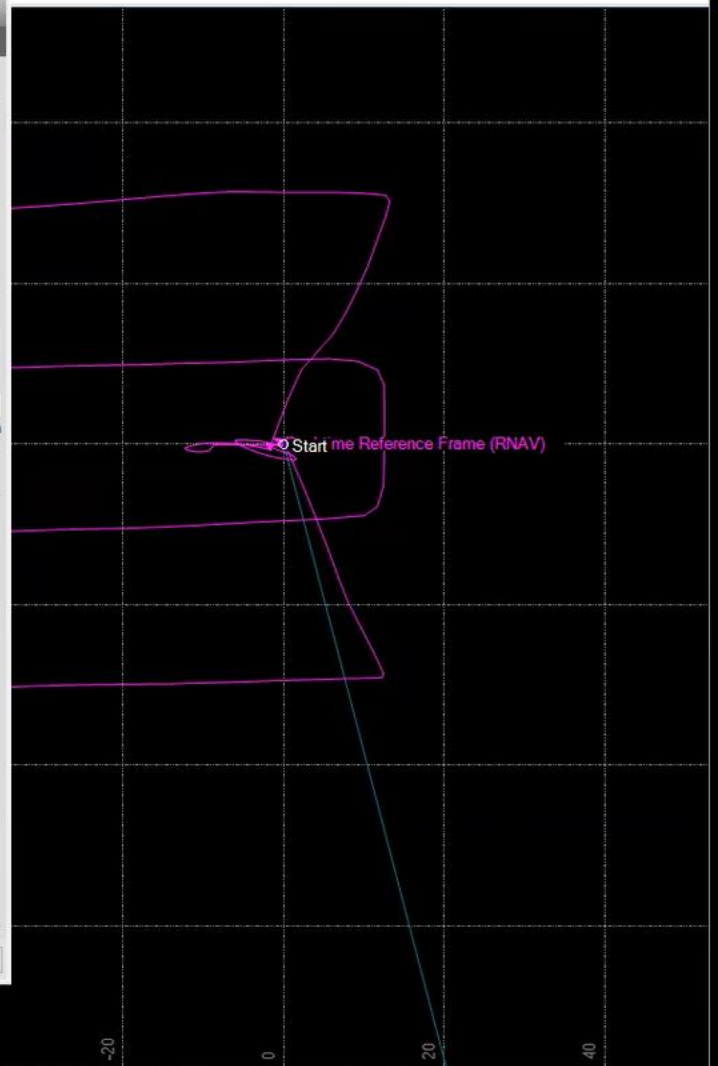
Positioning Mode: **Unavailable**

Position Accuracy: **Unavailable**

0.001 0.01 0.1 1.0 10 100m

Message Log

Run Close

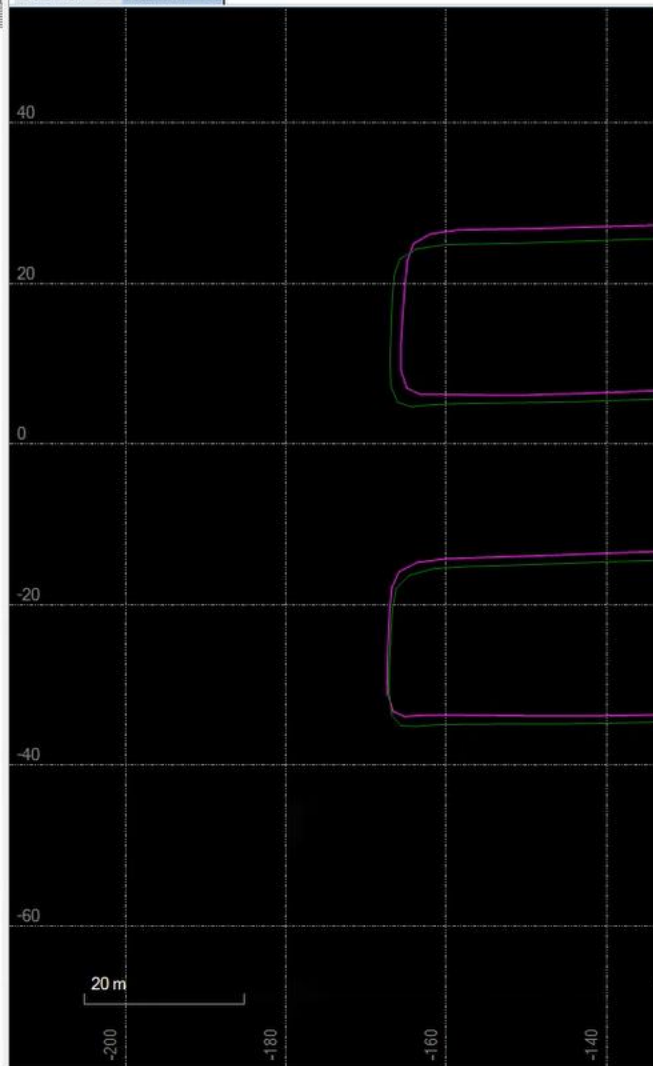


Project Explorer

Start Page x Plan View x

Unnamed

Mission 1



### GNSS-Inertial Processor

Settings

Mission: Mission 1

GNSS Mode: IN-Fusion Single Base

Stabilized Mount: Model

Base Station: OCLA

---

Status

Termination Stat.: Normal

Position Accuracy:

0.001 0.01 0.1 1.0 10 100m

---

Message Log

RTS Smoother [Jun 27 2022]  
 Copyright (c) 2008-2022 Applanix Corporation. All rights reserved.  
 Date : 03/29/23 Time : 12:06:23

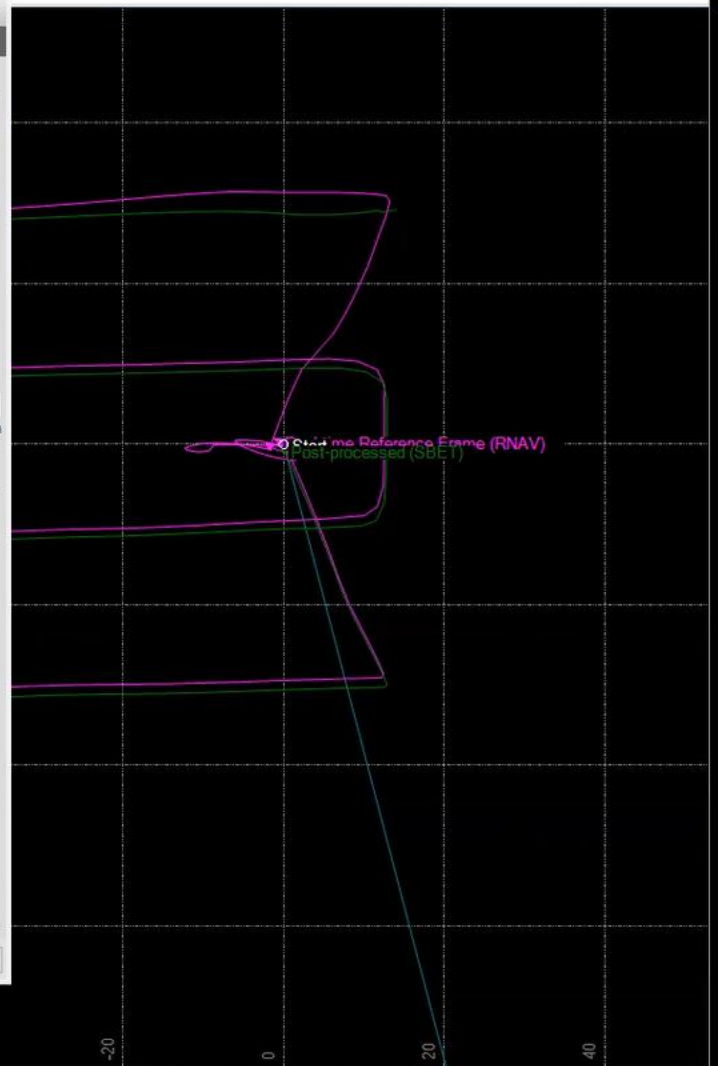
Processed data path : C:\Users\ayushshama\Documents\POSPac UAV\Unnamed(2)\Mission 1\Proc  
 Processed data kernel : Mission 1  
 Nominal IIN time increment : 0.0050  
 Output SBET time increment : 0.0050

Computing smoothed states.  
 Processing started  
 Writing SBET

Termination status : Normal  
 Execution time : 2.52

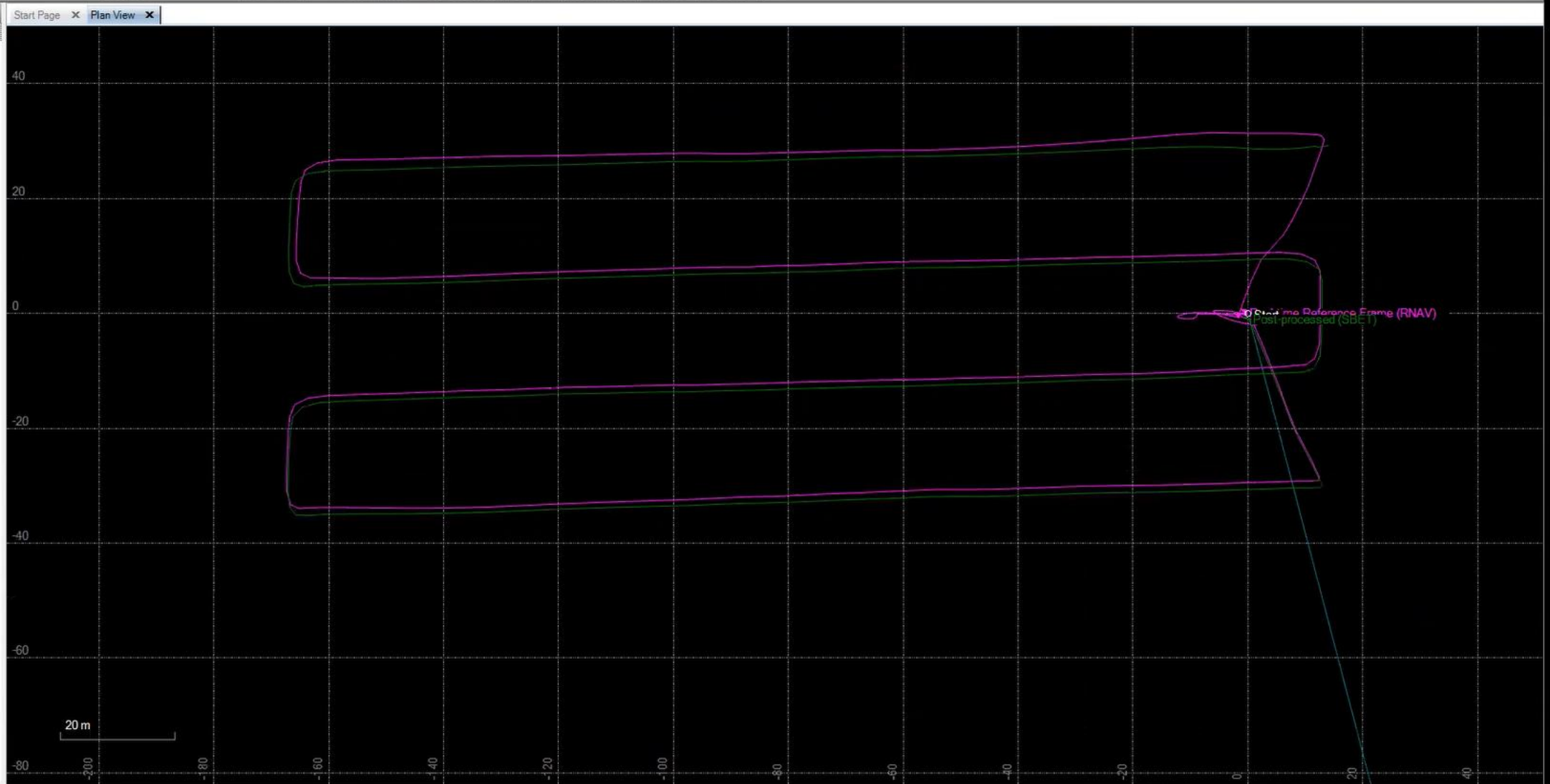
RTS smoother completed

Run Close



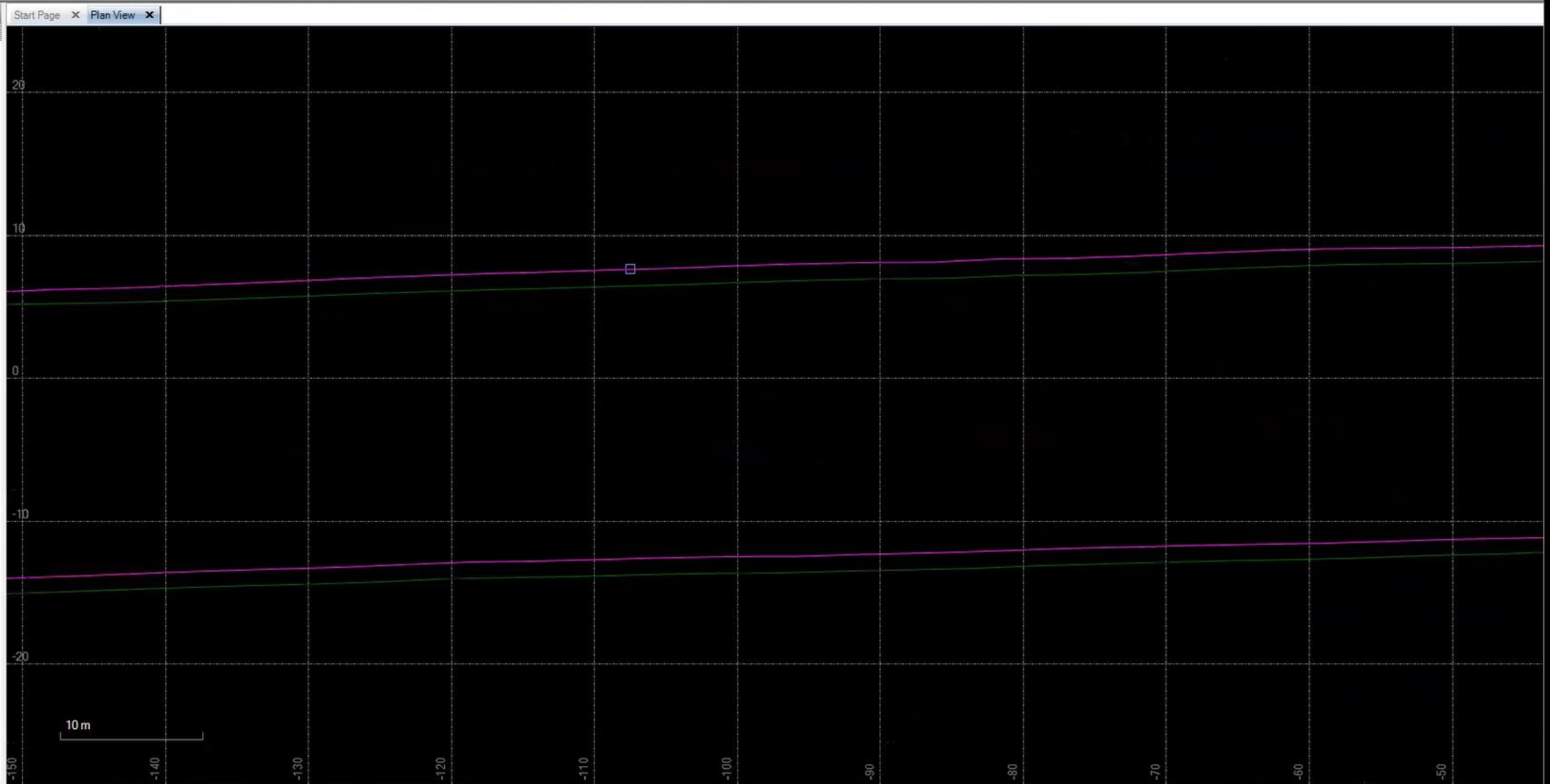
Project Explorer

- Unnamed
- Mission 1



Project Explorer

- Unnamed
- Mission 1







100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

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File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, New item, Easy access

Open: Properties, Edit, History

Select: Select all, Select none, Invert selection

Address bar: This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Search: Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Name	Date modified	Type	Size
AGP	3/29/2023 11:27 AM	File folder	
AGP21	3/29/2023 11:47 AM	File folder	
APX	3/29/2023 11:35 AM	File folder	
PCAP	3/29/2023 11:35 AM	File folder	
AGP21.pospac	3/29/2023 11:47 AM	POSPAC File	81 KB
AGP21.pospac.lk	3/29/2023 11:47 AM	POSPAC,LK File	2 KB
frameIndex_0.txt	10/31/2022 11:04 AM	Text Document	31 KB
frameIndex_2000.txt	10/31/2022 11:04 AM	Text Document	25 KB
frameIndex_3552.txt	10/31/2022 11:05 AM	Text Document	32 KB
frameIndex_5552.txt	10/31/2022 11:05 AM	Text Document	23 KB
frameIndex_6992.txt	10/31/2022 11:05 AM	Text Document	32 KB
frameIndex_8992.txt	10/31/2022 11:06 AM	Text Document	24 KB
gpsMonitor.json	10/31/2022 11:00 AM	JSON Source File	1 KB
imu_gps.txt	10/31/2022 11:10 AM	Text Document	10,012 KB
lidar.pcap.idx	10/31/2022 11:10 AM	IDX File	285 KB
ortho.ini	11/2/2022 4:38 PM	Configuration sett...	1 KB
pps.txt	10/31/2022 11:10 AM	Text Document	7 KB
pps_time_tag.txt	10/31/2022 11:10 AM	Text Document	19 KB
raw_0	10/31/2022 11:04 AM	File	682,500 KB
raw_0.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_0.png	10/31/2022 11:12 AM	PNG File	3,183 KB
raw_0_rd	11/1/2022 2:36 PM	File	1,365,000 KB
raw_0_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_2000	10/31/2022 11:04 AM	File	529,620 KB
raw_2000.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_2000.png	10/31/2022 11:12 AM	PNG File	2,521 KB
raw_2000_rd	11/1/2022 2:36 PM	File	1,059,240 KB
raw_2000_rd.hdr	11/1/2022 2:36 PM	HDR File	4 KB
raw_3552	10/31/2022 11:05 AM	File	682,500 KB
raw_3552.hdr	10/31/2022 11:05 AM	HDR File	6 KB
raw_3552.png	10/31/2022 11:12 AM	PNG File	2,831 KB
raw_3552_rd	11/1/2022 2:37 PM	File	1,365,000 KB
raw_3552_rd.hdr	11/1/2022 2:37 PM	HDR File	4 KB

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

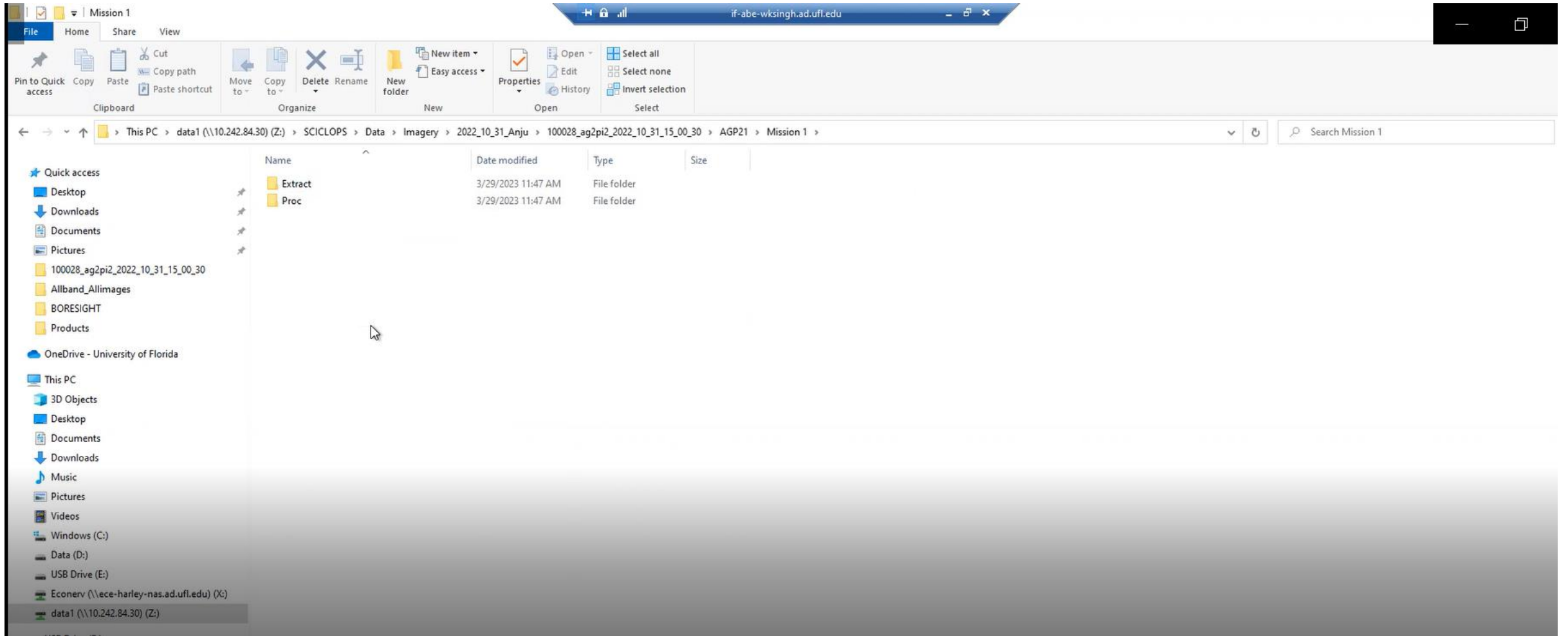
New: New folder, New item, Easy access

Open: Properties, Edit, History

Select: Select all, Select none, Invert selection

This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 > AGP21

Name	Date modified	Type	Size
DataArchive	3/29/2023 11:47 AM	File folder	
Missing 1	3/29/2023 11:47 AM	File folder	
SingleSelectArchive	3/29/2023 11:47 AM	File folder	
Ephm3040.22g	10/31/2022 7:30 PM	22G File	350 KB
Ephm3040.22n	10/31/2022 6:51 PM	22N File	255 KB
igl22340.sp3	11/30/2022 5:48 PM	SP3 File	157 KB
igl22341.sp3	11/30/2022 5:48 PM	SP3 File	157 KB
igl22342.sp3	11/30/2022 5:48 PM	SP3 File	157 KB
igs22340.sp3	12/4/2022 5:48 PM	SP3 File	246 KB
igs22341.sp3	12/5/2022 5:47 PM	SP3 File	246 KB
igs22342.sp3	12/6/2022 5:48 PM	SP3 File	246 KB
P1P22210.DCB	3/29/2023 11:58 AM	DCB File	3 KB
P1P22210.DCB.Z	3/29/2023 11:58 AM	Z File	1 KB



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File Project Edit View Reports Tools Window Help

Export Exterior Orientation Processor Camera Calibration and QC LiDAR Calibration and QC LiDAR Point Cloud Generator Smoothed Free Inertial Processor SAR POSTrack Conversion GNSS Planning SmartBase Cloud Options

Project Explorer

- AGP21
  - Mission 1



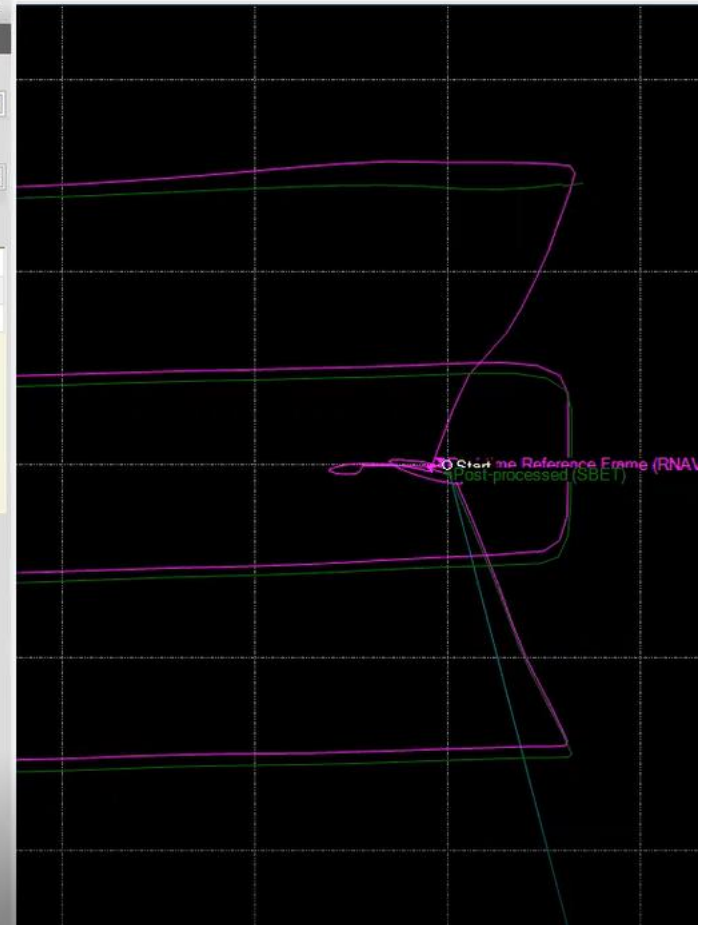
Export

Export File Name  
 \\Data\imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\AGP21\Mission 1\Export\export\_Mission 1.out

Export File Format  
 Custom Smoothed BET

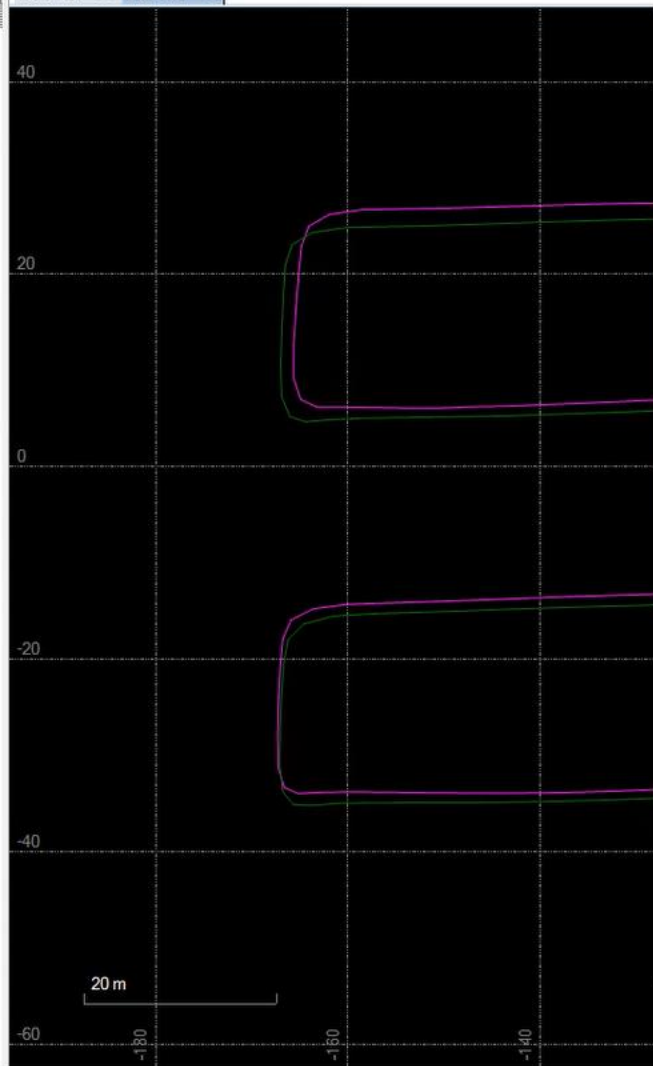
Settings

Output Rate	All Records
Output Height	Ellipsoid
Solution In Use	Post-processed



Project Explorer

- AGP21
  - Mission 1



Export

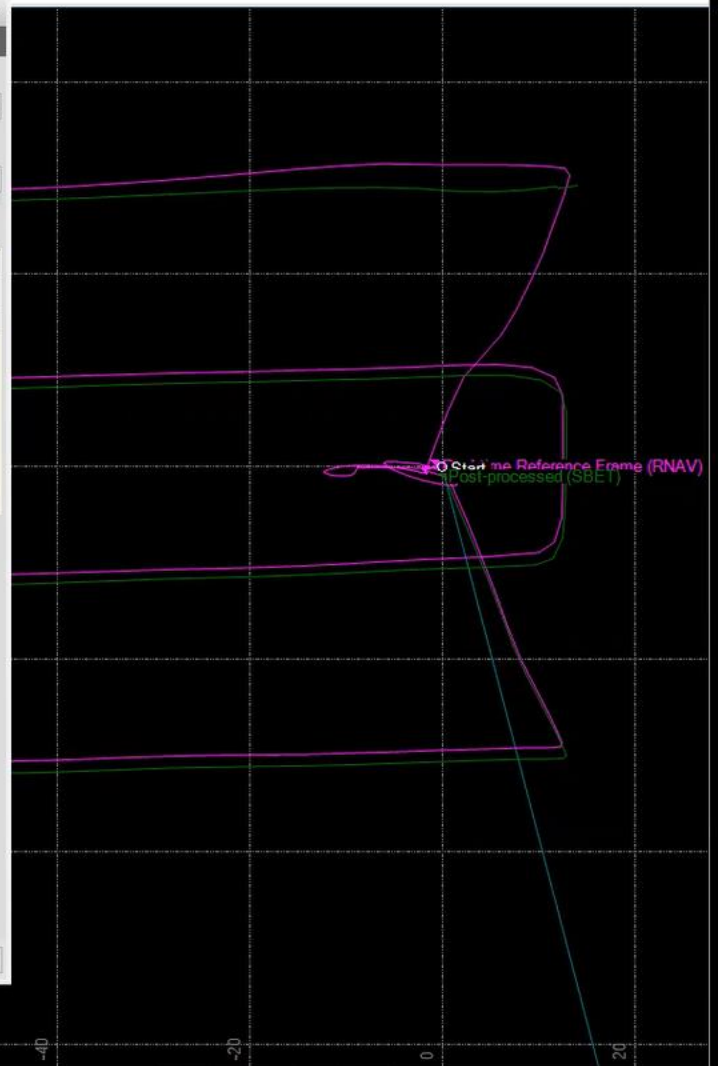
Export File Name  
i:\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\AGP21\Mission 1\Export\SBET\_export\_Missio

Export File Format  
Custom Smoothed BET

Settings

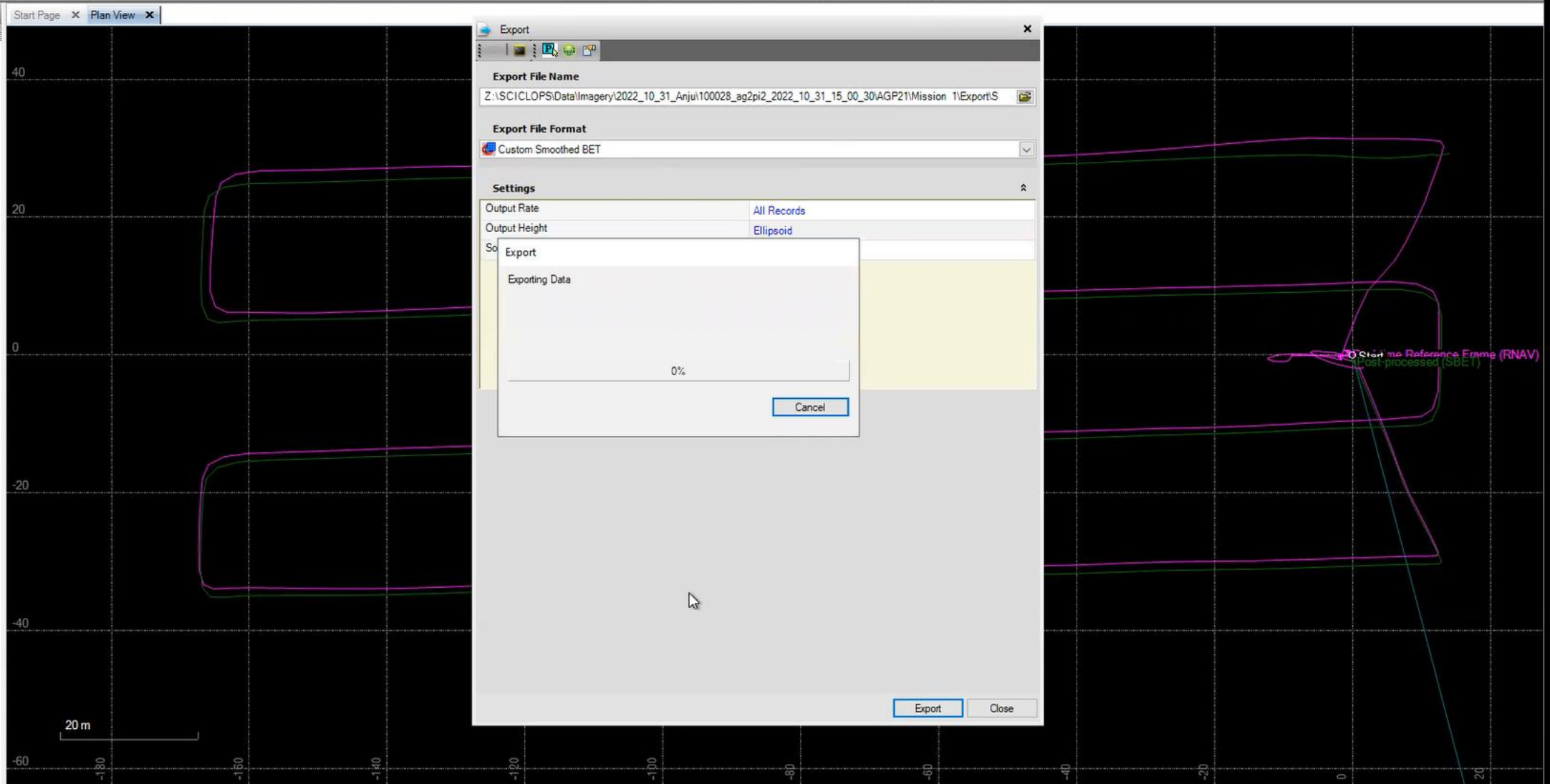
Output Rate	All Records
Output Height	Ellipsoid
Solution In Use	Post-processed

Export Close



Project Explorer

- AGP21
  - Mission 1



Export

Export File Name  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\AGP21\Mission 1\ExportS

Export File Format  
Custom Smoothed BET

Settings

Output Rate: All Records  
Output Height: Ellipsoid

So Export

Exporting Data

0%

Cancel

Export Close

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, New item, Easy access

Open: Properties, Edit, History

Select: Select all, Select none, Invert selection

This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 > AGP21 > Mission 1

Search Mission 1

Name	Date modified	Type	Size
Export	3/29/2023 11:48 AM	File folder	
Extract	3/29/2023 11:47 AM	File folder	
Proc	3/29/2023 11:47 AM	File folder	

- Quick access
- Desktop
- Downloads
- Documents
- Pictures
- 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
- Allband\_Allimages
- BORESIGHT
- Products
- OneDrive - University of Florida
- This PC
  - 3D Objects
  - Desktop
  - Documents
  - Downloads
  - Music
  - Pictures
  - Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- data1 (\\10.242.84.30) (Z:)
- USB Drive (E:)
- Network

Next video



Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, Easy access, New item

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

← → ↑ > This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 > AGP21 > Mission 1 > Export

Search Export

- Quick access
  - Desktop
  - Downloads
  - Documents
  - Pictures
  - 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
  - Allband\_Allimages
  - BORESIGHT
  - Products
- OneDrive - University of Florida
- This PC
  - 3D Objects
  - Desktop
  - Documents
  - Downloads
  - Music
  - Pictures
  - Videos
- Windows (C:)
  - Data (D:)
  - USB Drive (E:)
- Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- data1 (\\10.242.84.30) (Z:)
- USB Drive (E:)
- Network

Name	Date modified	Type	Size
SBET_export_Mission 1.log	3/29/2023 11:49 AM	Text Document	2 KB
SBET_export_Mission 1.out	3/29/2023 11:49 AM	OUT File	15,831 KB

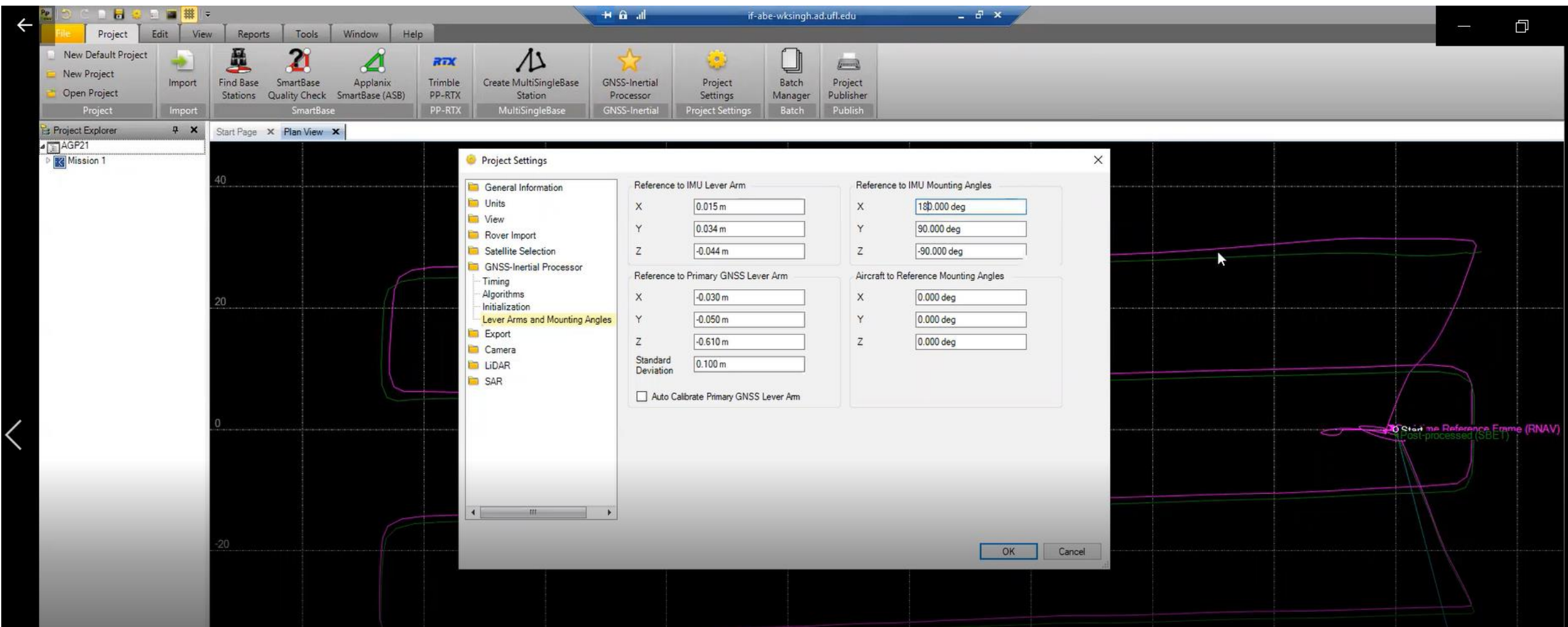
2 items State: Online

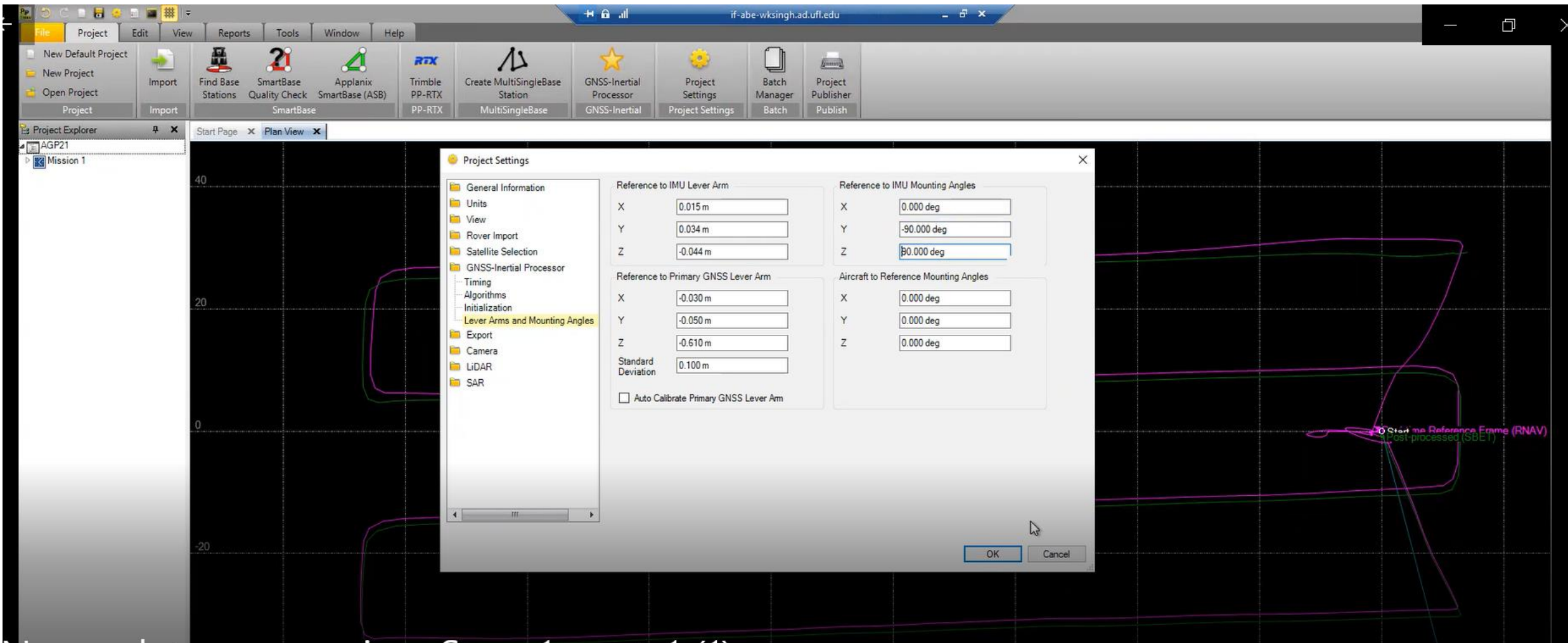
Taskbar: Windows Start, Search (Type here to search), Task View, Edge, File Explorer, Teams, PowerPoint, Play Store, Photos

System Tray: 67°F Sunny, 12:09 PM 3/29/2023, Network, Volume, Speaker

Taskbar: Windows Start, Search (Type here to search), Chrome, Adobe Reader, File Explorer, Teams, PowerPoint, Play Store, Photos

System Tray: 3:45 PM 05/15/2023, Network, Volume, Speaker





File Project Edit View Reports Tools Window Help

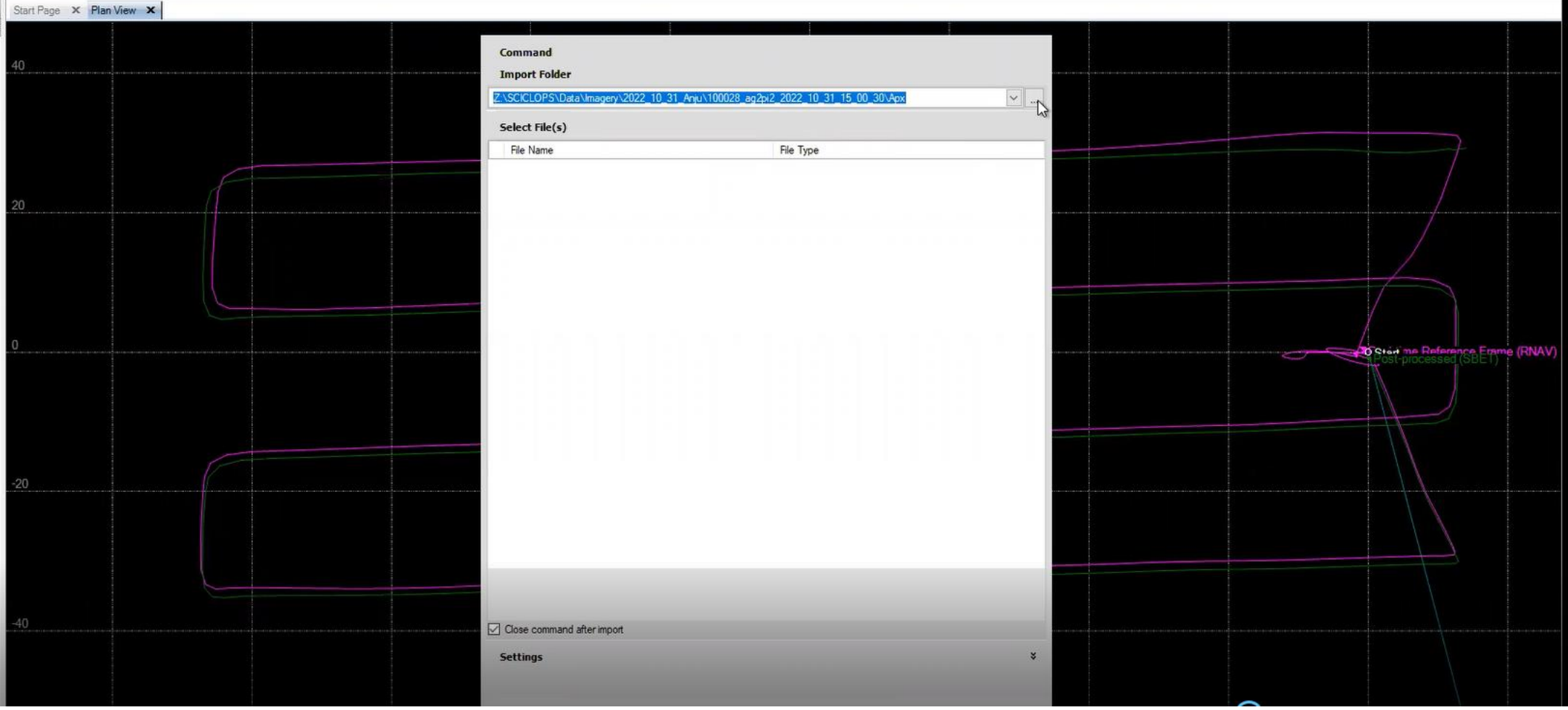
New Default Project New Project Open Project Project Import

Find Base Stations SmartBase Quality Check SmartBase Applanix SmartBase (ASB) SmartBase

RTX Trimble PP-RTX Create MultiSingleBase Station MultiSingleBase GNSS-Inertial Processor GNSS-Inertial Project Settings Project Settings Batch Manager Batch Project Publisher Publish

Project Explorer

- AGP21
  - Mission 1



Start the Reference Frame (RNAV)  
Post-processed (SBE)

File Project Edit View Reports Tools Window Help

New Default Project New Project Open Project

Import Find Base Stations SmartBase Quality Check SmartBase Applanix SmartBase (ASB) Trimble PP-RTX Create MultiSingleBase Station GNSS-Inertial Processor Project Settings Batch Manager Project Publisher

Project Import SmartBase PP-RTX MultiSingleBase GNSS-Inertial Project Settings Batch Publish

Project Explorer

- AGP21
  - Mission 1



Import

Import Folder

Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\Apx

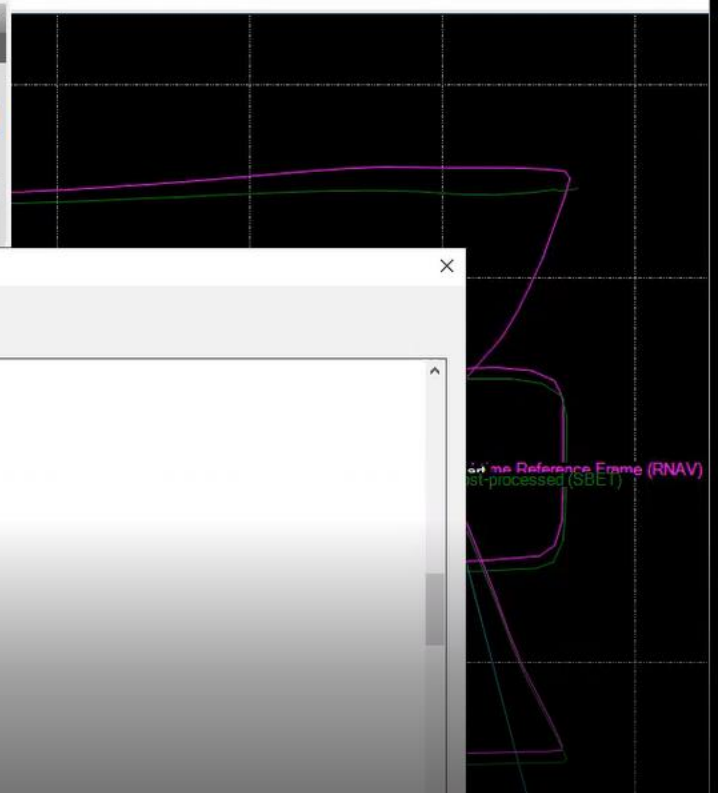
Select File(s)

File Name	File Type
5809C00340202210311457.T04	
5809C00340202210311500.T04	
5809C0	Browse For Folder
5809C0	
5809C0	
5809C0	

Import Folder

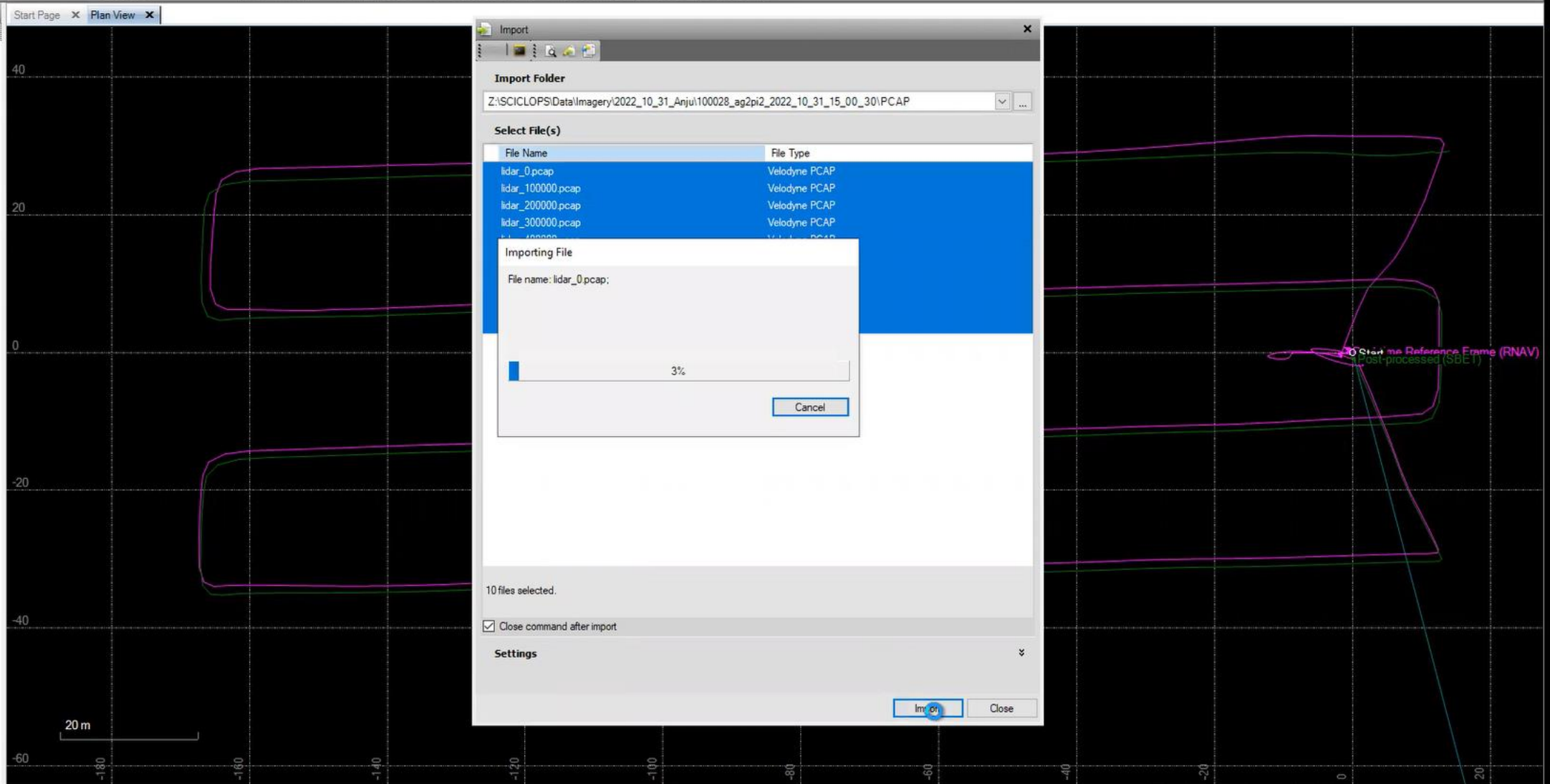
- 2022\_07\_07\_navdeep
- 2022\_07\_08\_Navdeep
- 2022\_08\_04\_Anju
- 2022\_08\_10\_corn\_Ayush
- 2022\_09\_15\_PSREU\_aerial
- 2022\_10\_28\_Citra\_aerial
- 2022\_10\_31\_Anju
  - 100025\_ag2pi\_dark\_2022\_10\_31\_14\_33\_03
  - 100026\_ag2pi\_2022\_10\_31\_14\_33\_26
  - 100027\_ag2pi2\_dark\_2022\_10\_31\_15\_00\_10
  - 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
    - AGP
    - AGP21
    - APX
    - PCAP
  - AGP21
  - APX

Type: File folder  
Date modified: 3/20/2023 11:35 AM



Project Explorer

- AGP21
  - Mission 1



Import

Import Folder

Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anjul100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\PCAP

Select File(s)

File Name	File Type
lidar_0.pcap	Velodyne PCAP
lidar_100000.pcap	Velodyne PCAP
lidar_200000.pcap	Velodyne PCAP
lidar_300000.pcap	Velodyne PCAP
lidar_400000.pcap	Velodyne PCAP

Importing File

File name: lidar\_0.pcap:

3%

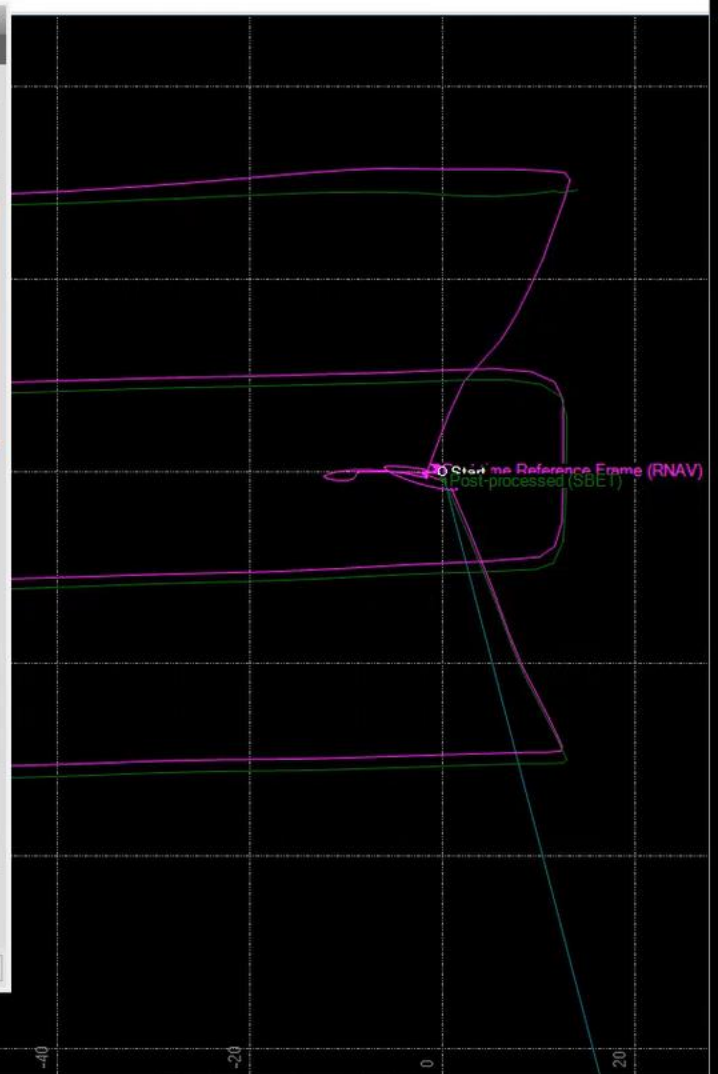
Cancel

10 files selected.

Close command after import

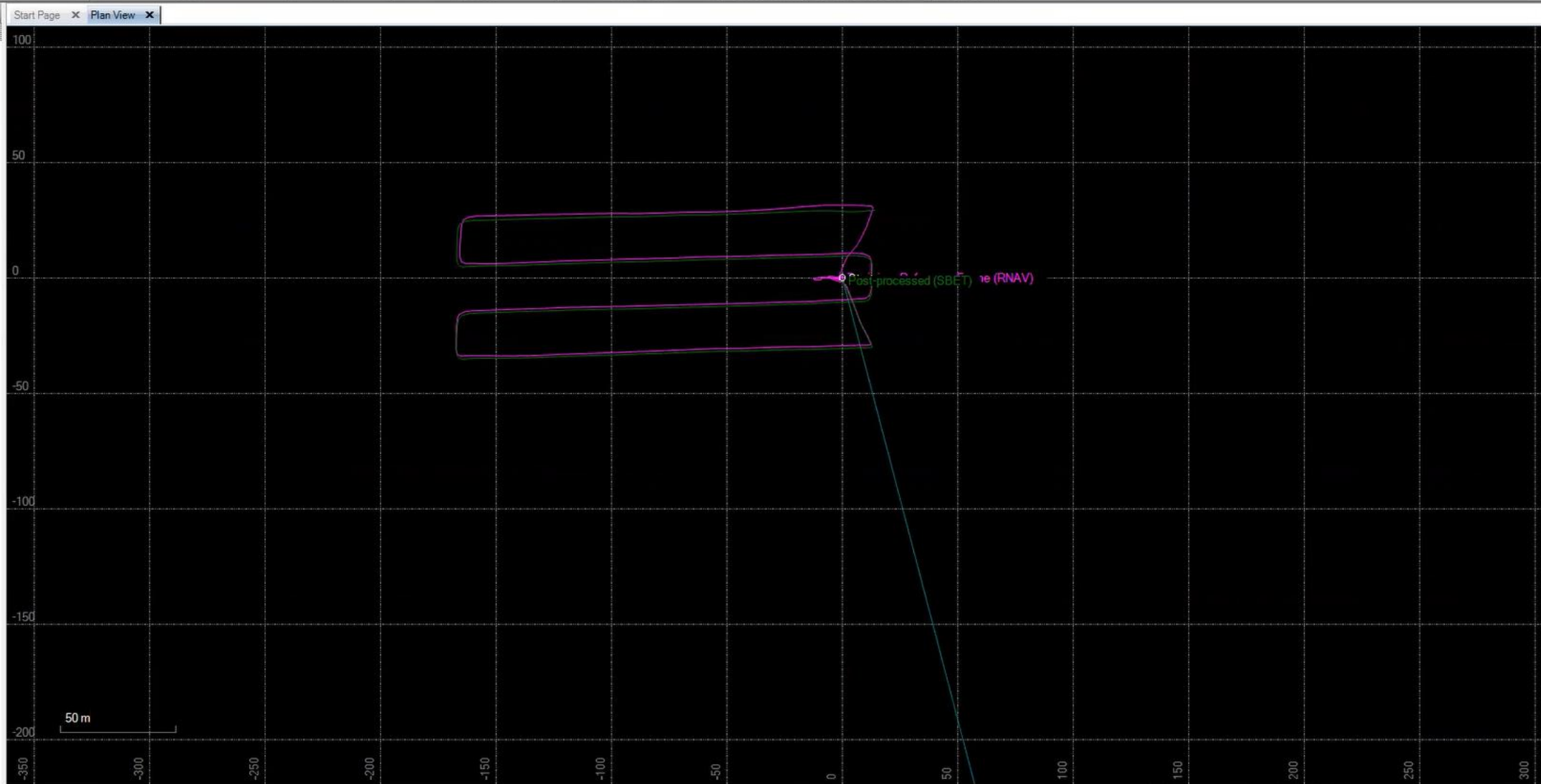
Settings

Import Close



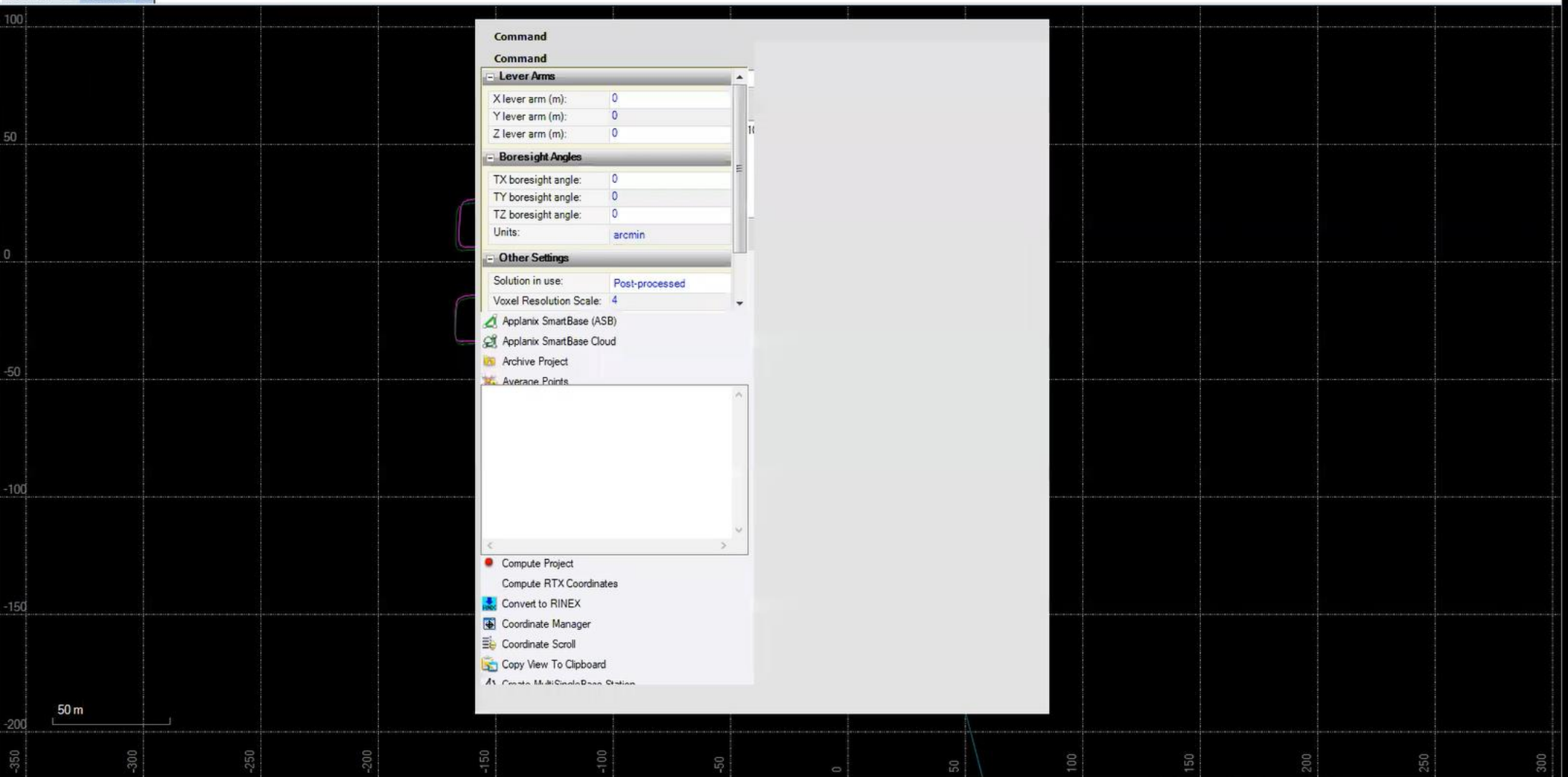
Project Explorer

- AGP21
  - Mission 1



Project Explorer

- AGP21
  - Mission 1





Project Explorer

- AGP21
  - Mission 1



LiDAR Calibration and QC

**Settings**

- Lever Arms**
  - X lever arm (m): 0
  - Y lever arm (m): 0
  - Z lever arm (m): 0
- Boresight Angles**
  - TX boresight angle: 5400
  - TY boresight angle: -16
  - TZ boresight angle: 5400
  - Units: arcmin
- Other Settings**
  - Solution in use: Post-processed
  - Voxel Resolution Scale: 4
  - Trajectory adjustment: Enabled
  - Boresight calibration: Enabled

**Status**

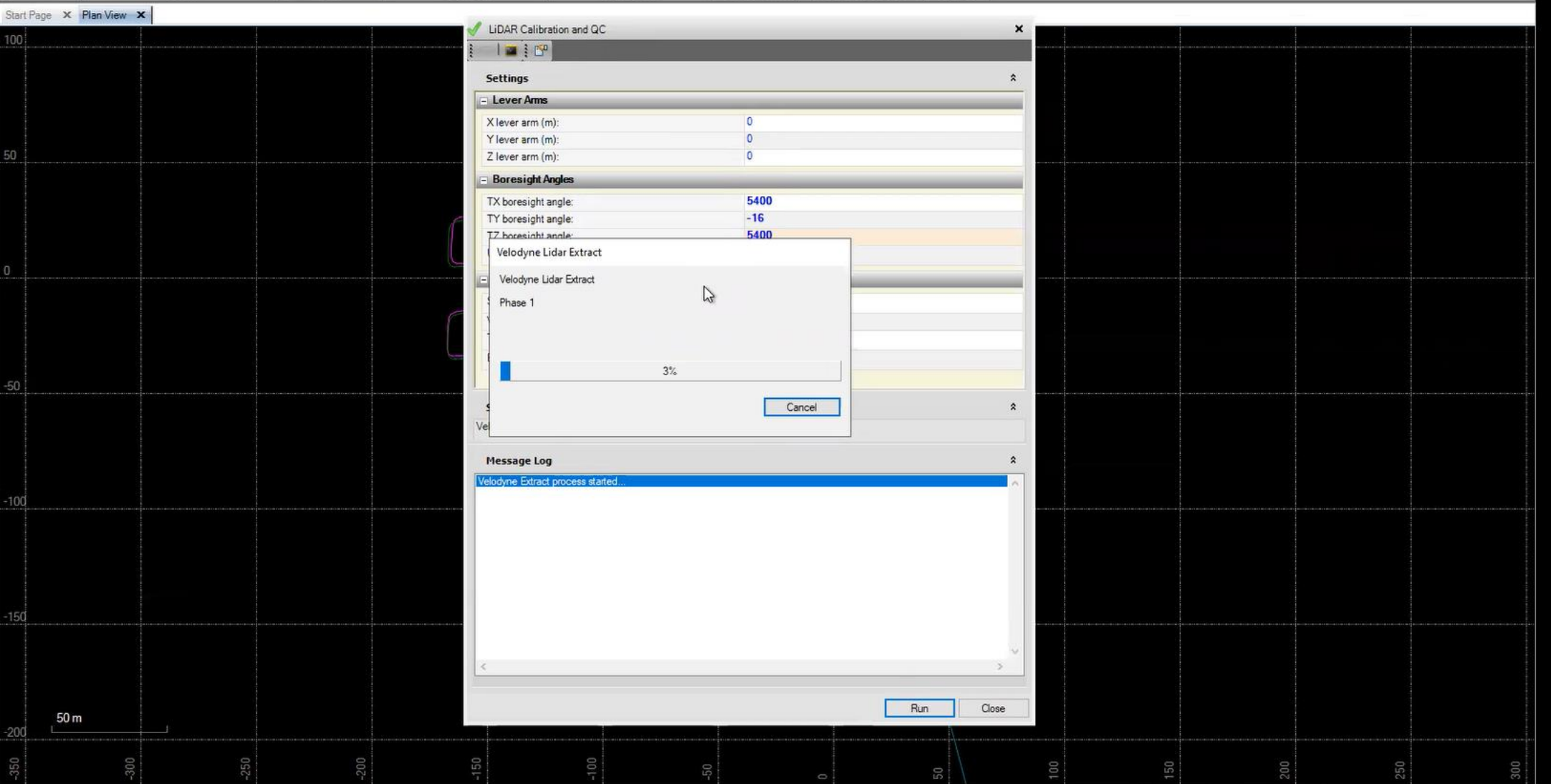
**Message Log**

Run Close



Project Explorer

- AGP21
  - Mission 1



File Home Share View

to Quick access Copy Paste Cut Copy path Paste shortcut Move to Copy to Delete Rename New folder New item Easy access Properties Edit History Select all Select none Invert selection

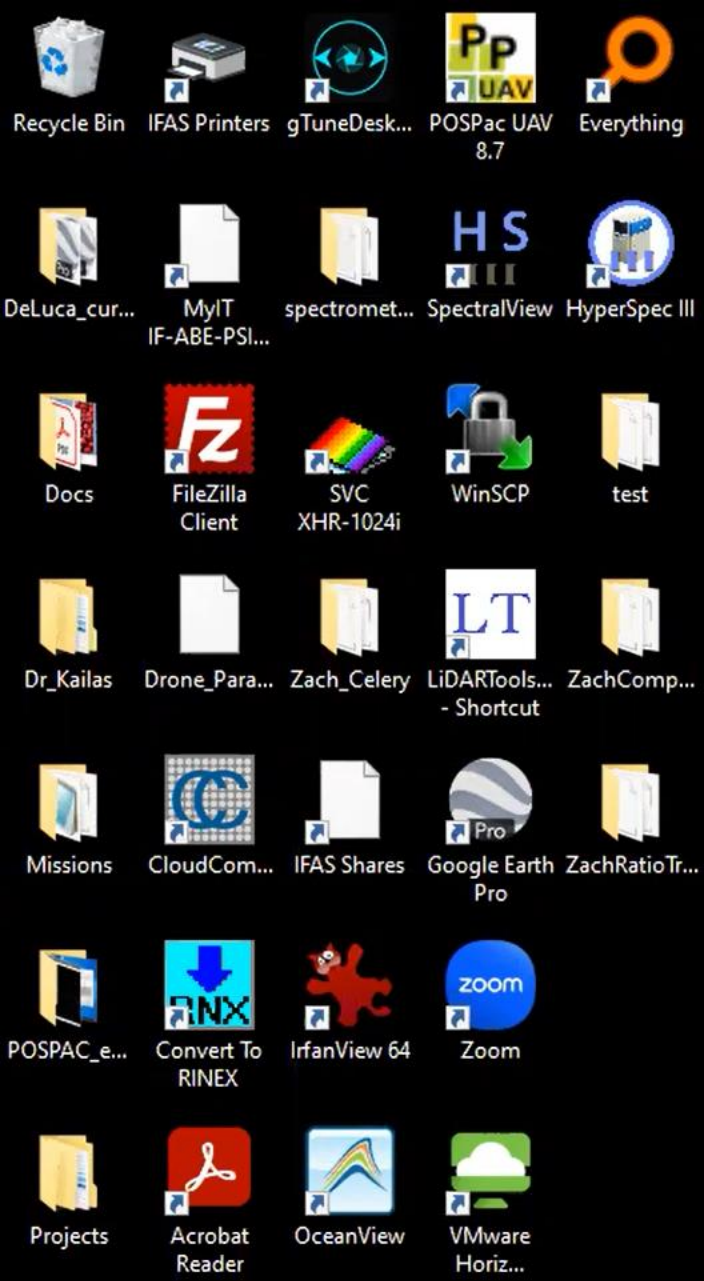
This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 > AGP21 > Mission 1

- Quick access
  - Desktop
  - Downloads
  - Documents
  - Pictures
  - 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
  - Allband\_Allimages
  - BORESIGHT
  - Products
- OneDrive - University of Florida
- This PC
  - 3D Objects
  - Desktop
  - Documents
  - Downloads
  - Music
  - Pictures
  - Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- data1 (\\10.242.84.30) (Z:)
- USB Drive (E:)
- Network

Name	Date modified	Type	Size
Export	3/29/2023 11:48 AM	File folder	
Extract	3/29/2023 11:47 AM	File folder	
Proc	3/29/2023 11:47 AM	File folder	
LIDARQC	3/29/2023 11:51 AM	File folder	

Type: File folder  
Date modified: 3/29/2023 11:51 AM  
Files: lidarqc\_velodyne\_extract.log

# Radiometric calibration



- Radiance Batch Ctrl+R
- Ortho-Rectification Batch
- Cube to Image
- Unpack 12bit Cubes
- NUC
- Remove NUC

---

- Reflectance Batch





Buttons for Radiance, Reflectance, and Ortho R. processing.





C: 634 GB

- Radiance Batch Ctrl+R
- Ortho-Rectification Batch
- Cube to Image
- Unpack 12bit Cubes
- NUC
- Remove NUC
- Reflectance Batch

Radiance Batch

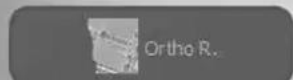
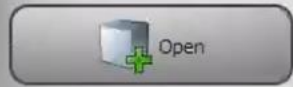
File Selection Calibration Batch

Files:     Filter:

< Previous Next > Cancel

C:  634 GB



HS Radiance Batch

File Selection Calibration Batch

Files: Filter:



HS Open Header Files

This PC > data1 (\\ecodata2) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Organize New folder

Name	Date modified	Type	Size
AGP	3/29/2023 11:27 AM	File folder	
AGP21	3/29/2023 11:47 AM	File folder	
APX	3/29/2023 11:35 AM	File folder	
PCAP	3/29/2023 11:35 AM	File folder	
raw_0.hdr	10/31/2022 11:04 AM	HyperSpec III	6 KB
raw_2000.hdr	10/31/2022 11:04 AM	HyperSpec III	6 KB
raw_3552.hdr	10/31/2022 11:05 AM	HyperSpec III	6 KB
raw_5552.hdr	10/31/2022 11:05 AM	HyperSpec III	6 KB
raw_6992.hdr	10/31/2022 11:05 AM	HyperSpec III	6 KB
raw_8992.hdr	10/31/2022 11:06 AM	HyperSpec III	6 KB

File name: "raw\_8992.hdr" "raw\_0.hdr" "raw\_2000.hdr" "raw\_3552.hdr" "raw\_5552.hdr" "raw\_6992.hdr" Header Files (\*.hdr)

Open Cancel





Open  
Radiance  
Reflectance  
Ortho R.

### Radiance Batch

File Selection Calibration Batch

Calibration Files

Radio Calibration: C:/Headwall/sensorConfig/nHS-209/8mm/radioCal.mp/RC\_DN.hdr

Dark Reference: [Browse]

Target Wavelengths

Selected: 273

From(nm): 399.18

To(nm): 1000.97

Step(nm): 0.00

Select

Clear

Select RGB

<input checked="" type="checkbox"/>	399.191 nm
<input checked="" type="checkbox"/>	401.404 nm
<input checked="" type="checkbox"/>	403.616 nm
<input checked="" type="checkbox"/>	405.828 nm
<input checked="" type="checkbox"/>	408.041 nm
<input checked="" type="checkbox"/>	410.253 nm
<input checked="" type="checkbox"/>	412.466 nm
<input checked="" type="checkbox"/>	414.678 nm
<input checked="" type="checkbox"/>	416.89 nm
<input checked="" type="checkbox"/>	419.103 nm
<input checked="" type="checkbox"/>	421.315 nm
<input checked="" type="checkbox"/>	423.528 nm
<input checked="" type="checkbox"/>	425.74 nm
<input checked="" type="checkbox"/>	427.952 nm
<input checked="" type="checkbox"/>	430.165 nm
<input checked="" type="checkbox"/>	432.377 nm
<input checked="" type="checkbox"/>	434.59 nm

< Previous    Next >    Cancel



Open

Radiance

Reflectance

Ortho R.

### Radiance Batch

File Selection Calibration Batch

Calibration Files

Radio Calibration: C:/Headwall/sensorConfig/nHS-209/8mm/radioCal.mp/RC\_DN.hdr

Dark Reference:

Target Wavelengths

Selected: 273

From(nm): 399.18

To(nm): 1000.97

Step(nm): 0.00

Select

Clear

Select RGB

<input checked="" type="checkbox"/>	399.191 nm
<input checked="" type="checkbox"/>	401.404 nm
<input checked="" type="checkbox"/>	403.616 nm
<input checked="" type="checkbox"/>	405.828 nm
<input checked="" type="checkbox"/>	408.041 nm
<input checked="" type="checkbox"/>	410.253 nm
<input checked="" type="checkbox"/>	412.466 nm
<input checked="" type="checkbox"/>	414.678 nm
<input checked="" type="checkbox"/>	416.89 nm
<input checked="" type="checkbox"/>	419.103 nm
<input checked="" type="checkbox"/>	421.315 nm
<input checked="" type="checkbox"/>	423.528 nm
<input checked="" type="checkbox"/>	425.74 nm
<input checked="" type="checkbox"/>	427.952 nm
<input checked="" type="checkbox"/>	430.165 nm
<input checked="" type="checkbox"/>	432.377 nm
<input checked="" type="checkbox"/>	434.59 nm

< Previous Next > Cancel



HS Open Header File

This PC > data1 (\\ecodata2) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > Search 2022\_10\_31\_Anju

Organize New folder

Name	Date modified	Type	Size
100025_ag2pi_dark_2022_10_31_14_33_03	11/1/2022 2:23 PM	File folder	
100026_ag2pi_2022_10_31_14_33_26	11/1/2022 2:24 PM	File folder	
100027_ag2pi2_dark_2022_10_31_15_00_10	11/1/2022 2:24 PM	File folder	
100028_ag2pi2_2022_10_31_15_00_30	3/29/2023 12:48 PM	File folder	
AGP21	2/17/2023 1:42 PM	File folder	
APX	11/1/2022 3:28 PM	File folder	
Combined_LAS	2/17/2023 1:55 PM	File folder	
Trimbal	11/1/2022 3:31 PM	File folder	

File name: Header file (\*.hdr)

Open Cancel



Open Header File

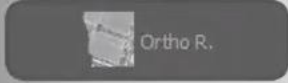
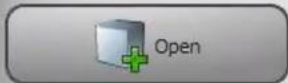
This PC > data1 (\\ecodata2) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100027\_ag2pi2\_dark\_2022\_10\_31\_15\_00\_10

Organize New folder

Name	Date modified	Type	Size
raw_0.hdr	10/31/2022 11:00 AM	HyperSpec III	6 KB

File name: raw\_0.hdr Header file (\*.hdr)

Open Cancel



**Radiance Batch**

File Selection Calibration **Batch**

Calibration Files

Radio Calibration: C:/Headwall/sensorConfig/nHS-209/8mm/radioCal.mp/RC\_DN.hdr

Dark Reference: S:\Data\Imagery\2022\_10\_31\_Anju\100027\_ag2pi2\_dark\_2022\_10\_31\_15\_00\_10\_yaw\_0.hdr

Target Wavelengths

Selected: 273

From(nm): 399.18

To(nm): 1000.97

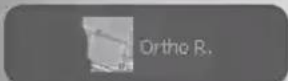
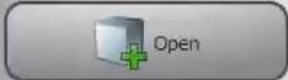
Step(nm): 0.00

Select

Clear

Select RGB

<input checked="" type="checkbox"/>	399.191 nm
<input checked="" type="checkbox"/>	401.404 nm
<input checked="" type="checkbox"/>	403.616 nm
<input checked="" type="checkbox"/>	405.828 nm
<input checked="" type="checkbox"/>	408.041 nm
<input checked="" type="checkbox"/>	410.253 nm
<input checked="" type="checkbox"/>	412.466 nm
<input checked="" type="checkbox"/>	414.678 nm
<input checked="" type="checkbox"/>	416.89 nm
<input checked="" type="checkbox"/>	419.103 nm
<input checked="" type="checkbox"/>	421.315 nm
<input checked="" type="checkbox"/>	423.528 nm
<input checked="" type="checkbox"/>	425.74 nm
<input checked="" type="checkbox"/>	427.952 nm
<input checked="" type="checkbox"/>	430.165 nm
<input checked="" type="checkbox"/>	432.377 nm
<input checked="" type="checkbox"/>	434.59 nm



### Radiance Batch

File Selection Calibration **Batch**

Overall

Suffix:

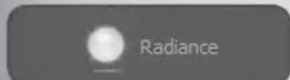
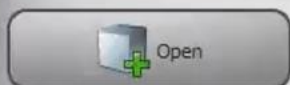
Overwrite  Read, write,read, ...

File:

Read:

Write:

Log



### Radiance Batch

File Selection Calibration Batch


Overall

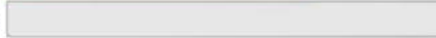
Suffix:

Overwrite  Read, write,read, ...

0%

File: Z:/SCICLOPS/Data/Imagery/2022\_10\_31\_Anju/100028\_ag2pi2\_2022\_10\_31\_15\_00\_30/raw\_0.hdr

Read:  33%

Write:  0%

Log

C:  633 GB



- Open
- Radiance
- Reflectance
- Ortho R.

### Radiance Batch

File Selection Calibration **Batch**

Overall

Suffix:

Overwrite  Read, write,read, ...

0%

File: Z:/SCICLOPS/Data/Imagery/2022\_10\_31\_Anju/100028\_ag2pi2\_2022\_10\_31\_15\_00\_30/raw\_0.hdr

Read:	<div style="width: 100%; background-color: green;"></div>	100%
Write:	<div style="width: 56%; background-color: green;"></div>	56%

Log

< Previous    Next >    Cancel



File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New item, Easy access, New folder

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

← → ↕ ↑ This PC > data1 (\\ecodata2) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Search 100028\_ag...

Name	Date modified	Type	Size
ortho.ini	11/2/2022 4:38 PM	Configuration sett...	1 KB
pps.txt	10/31/2022 11:10 AM	Text Document	7 KB
pps_time_tag.txt	10/31/2022 11:10 AM	Text Document	19 KB
raw_0	10/31/2022 11:04 AM	File	682,500 KB
raw_0.hdr	10/31/2022 11:04 AM	HyperSpec III	6 KB
raw_0.png	10/31/2022 11:12 AM	IrfanView PNG File	3,183 KB
raw_2000	10/31/2022 11:04 AM	File	529,620 KB
raw_2000.hdr	10/31/2022 11:04 AM	HyperSpec III	6 KB
raw_2000.png	10/31/2022 11:12 AM	IrfanView PNG File	2,521 KB
raw_3552	10/31/2022 11:05 AM	File	682,500 KB
raw_3552.hdr	10/31/2022 11:05 AM	HyperSpec III	6 KB
raw_3552.png	10/31/2022 11:12 AM	IrfanView PNG File	2,831 KB
raw_5552	10/31/2022 11:05 AM	File	491,400 KB
raw_5552.hdr	10/31/2022 11:05 AM	HyperSpec III	6 KB
raw_5552.png	10/31/2022 11:12 AM	IrfanView PNG File	2,044 KB
raw_6992	10/31/2022 11:05 AM	File	682,500 KB
raw_6992.hdr	10/31/2022 11:05 AM	HyperSpec III	6 KB
raw_6992.png	10/31/2022 11:12 AM	IrfanView PNG File	2,824 KB
raw_8992	10/31/2022 11:06 AM	File	501,979 KB
raw_8992.hdr	10/31/2022 11:06 AM	HyperSpec III	6 KB
raw_8992.png	10/31/2022 11:12 AM	IrfanView PNG File	2,100 KB
settings.txt	10/31/2022 11:10 AM	Text Document	1 KB
raw_0_rd	3/29/2023 12:54 PM	File	1,365,000 KB
raw_0_rd.hdr	3/29/2023 12:54 PM	HyperSpec III	4 KB

40 items State: Online

Windows taskbar with search bar, task icons, and system tray (1:15 PM 3/29/2023, 5:32 PM 05/15/2023).

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New item, Easy access, New folder

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

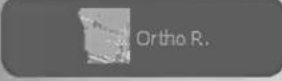
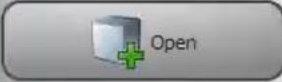
← → ↕ ↑ > This PC > data1 (\\ecodata2) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 >

Search 100028\_ag...

Name	Date modified	Type	Size
frameIndex_8992.txt	10/31/2022 11:06 AM	Text Document	24 KB
gpsMonitor.json	10/31/2022 11:00 AM	JSON File	1 KB
imu_gps.txt	10/31/2022 11:10 AM	Text Document	10,012 KB
lidar.pcap.idx	10/31/2022 11:10 AM	IDX File	285 KB
ortho.ini	11/2/2022 4:38 PM	Configuration sett...	1 KB
pps.txt	10/31/2022 11:10 AM	Text Document	7 KB
pps_time_tag.txt	10/31/2022 11:10 AM	Text Document	19 KB
raw_0	10/31/2022 11:04 AM	File	682,500 KB
raw_0.hdr	10/31/2022 11:04 AM	HyperSpec III	6 KB
raw_0.png	10/31/2022 11:12 AM	IrfanView PNG File	3,183 KB
raw_0_rd	3/29/2023 12:54 PM	File	1,365,000 KB
raw_0_rd.hdr	3/29/2023 12:54 PM	HyperSpec III	4 KB
raw_2000	10/31/2022 11:04 AM	File	529,620 KB
raw_2000.hdr	10/31/2022 11:04 AM	HyperSpec III	6 KB
raw_2000.png	10/31/2022 11:12 AM	IrfanView PNG File	2,521 KB
raw_2000_rd	3/29/2023 12:55 PM	File	1,059,240 KB
raw_2000_rd.hdr	3/29/2023 12:55 PM	HyperSpec III	4 KB
raw_34	10/31/2022 11:05 AM	File	682,500 KB
raw_3552.hdr	10/31/2022 11:05 AM	HyperSpec III	6 KB
raw_3552.png	10/31/2022 11:12 AM	IrfanView PNG File	2,831 KB
raw_3552_rd	3/29/2023 12:56 PM	File	1,365,000 KB
raw_3552_rd.hdr	3/29/2023 12:56 PM	HyperSpec III	4 KB
raw_5552	10/31/2022 11:05 AM	File	491,400 KB
raw_5552.hdr	10/31/2022 11:05 AM	HyperSpec III	6 KB

48 items State: Online

Windows taskbar with search bar and system tray. System tray shows time 1:18 PM 3/29/2023 and 5:37 PM 05/15/2023.



### Radiance Batch

File Selection Calibration **Batch**

Overall

Suffix:

Overwrite  Read, write,read, ...

100%

Start Stop Save List

File:

Read: 100%

Write: 100%

Log

```
Z:/SCICLOPS/Data/Imagery/2022_10_31_Anju/100028_ag2pi2_2022_10_31_15_00_30/raw_0.hdr  
Z:/SCICLOPS/Data/Imagery/2022_10_31_Anju/100028_ag2pi2_2022_10_31_15_00_30/raw_2000.hdr  
Z:/SCICLOPS/Data/Imagery/2022_10_31_Anju/100028_ag2pi2_2022_10_31_15_00_30/raw_3552.hdr  
Z:/SCICLOPS/Data/Imagery/2022_10_31_Anju/100028_ag2pi2_2022_10_31_15_00_30/raw_5552.hdr  
Z:/SCICLOPS/Data/Imagery/2022_10_31_Anju/100028_ag2pi2_2022_10_31_15_00_30/raw_6992.hdr  
Z:/SCICLOPS/Data/Imagery/2022_10_31_Anju/100028_ag2pi2_2022_10_31_15_00_30/raw_8992.hdr
```

< Previous Next > Cancel



ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
Atcor 4, Version 7.4	atcor_4_v74.zip (159 MB)	N/A	Install	Start
Droacor, Version 2.0	droacor_v20.zip (51 MB)	Installed	Re-Install	Start
Parge Version 3.5	parge_v35.zip (55 MB)	Installed	Re-Install	Start
Modo 4	modo_v4.zip (59 MB)	N/A	Install	Start
Modo 5.2	modo_v52.zip (23 MB)	N/A	Install	Start
Modo 6.0	modo_v60.zip (40 MB)	N/A	Install	Start

choose applications to install...

Web Download
  from USB Stick or HD

0

Cancel Download

Help    Check Connection    Proxy Settings    Done



Media Player

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
-----------------------	---------------------------	-----	---------	-------

**DROACOR V 2.0.1 - Drone Atmospheric Correction**

File Import DROACOR Product Help

Licensed for University of Florida Version 2.0.1 Build 80 (c) DS ReSe 2023

```

.....
DROACOR
Processing Console
.....

DROACOR(R). Version 2.0.1, Build 80
Date: Sun Feb 5 10:48:04 2023

(c) 2023: ReSe Applications LLC, Wil, Switzerland
www.rese-apps.com / info@rese-apps.com
  
```

Show Log File Clear Console  Stop!

- Recycle
- Atcor 4, Version 7
- Droacor, Version 2
- Parge Version 3.5
- Modo 4
- Modo 5.2
- Modo 6.0
- ... starting Droac
- use command: C
- CloudCor

RNX

Convert To RINEX

POSPac U



IFAS Printers

Taskbar icons: Chrome, Zoom, PDF, R, File Explorer, Panda, Red cat, Edge, Teams, RSe Software, Empty, Plot, Word, Excel, R



Media Player

ReSe Software Installer, version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
-----------------------	---------------------------	-----	---------	-------

**DROACOR V 2.0.1 - Drone Atmospheric Correction**

for University of Florida    Version 2.0.1 Build 80 (c) DS ReSe 2023

File    **Import**    DROACOR    Product    Help

- Specim AISA
- Itres CASI
- Headwall Hyperspec**
- NEO Mjolnir
- Resonon PIKA
- Corning Shark
- Single Side Looking
- TIR Spectroscopy    Build 80  
23
- FLIR Duo    \_C. Wil, Switzerland  
@rese-apps.com
- Micasense
- DB2 Laquinta
- JPEG >
- TIFF >

Show Log File    Clear Console     Stop!

- Recycle
- Atcor 23, Version 9.4
- Atcor 4, Version 7
- Droacor, Version 2
- Parge Version 3.5
- Modo 4
- Modo 5.2
- Modo 6.0
- ... starting Droacor
- use command: C
- CloudCom

RNX

Convert To RINEX

PP UA

POSPac UA



Taskbar icons: Chrome, Zoom, PDF, R, File Explorer, Panda, Red character, Edge, Teams, File Explorer, Word, Excel, R



Media Player

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
-----------------------	---------------------------	-----	---------	-------

DROACOR V 2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Licensed for University of Florida Version 2.0.1 Build 80 (c) DS ReSe 2022

Headwall Hyperspec Data Import

Select Input Directory: C:\ReSe\_Software\_Win64\droacor\bin\

File Filter: raw\*[0123456789]\_rd Apply Nr. of files found:

Select Calibration File: >> DEFAULT <<

Select Reference Image: AUTO

Ground Elevation :  from Global DEM  from Meta Data  from DEM File  Constant Elevation [m]: 0.0

Currently Selected DEM File:  
... select input directory ...

Select Output Directory: C:\ReSe\_Software\_Win64\droacor\bin\

Help Import Data Done

Recycle

Acrobat R

CloudCor

RNX

Convert To RINEX

PDF



IFAS Printers



Media Player

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
-----------------------	---------------------------	-----	---------	-------

DROACOR V 2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Licensed for University of Florida - Version 2.0.1 Build 80 (6) DS-DrSe-2022

Headwall Hyperspec Data Import

Select Input Directory: C:\ReSe\_Software\_Win64\droacor\bin\

File Filter: raw\*[0123456789]\_rd

Select Calibration File: >> DEFAULT <<

Select Reference Image: AUTO

Ground Elevation:  from Global DEM  from Meta Data

Currently Selected DEM File:  
... select input directory ...

Select Output Directory: C:\ReSe\_Software\_Win64\droacor\bin\

Help Import

Browse For Folder

Input Directory Location

- > bin
- > demo\_data
- help
- > glimps
- > IDL87
- > parge
- Temp
- > Users
- > Windows
- > Data (D:)
- > USB Drive (E:)
- > Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- > data1 (\\10.242.84.30) (Z:)
- Libraries
- > USB Drive (I: Space free: 9.47 TB Total size: 26.1 TB)
- > Network
- > Control Panel
- Recycle Bin

Recycle

Acrobat R

CloudCor

RNX

Convert To RINEX

POSPac UA

Google Chrome

Zoom

Daluca tissue

PDF

IRAS Shares

IrfanView





ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\  
Atcor 23, Version 9.4 atcor\_23\_v94.zip (233 MB) N/A [Install] [Start]  
Atcor 4, Version 7  
Droacor, Version 2  
Parge Version 3.5  
Modo 4  
Modo 5.2  
Modo 6.0  
... starting Droacor  
use command: C

DROACOR V2.0.1 - Drone Atmospheric Correction  
File Import DROACOR Product Help  
Licensed for University of Florida Version 2.0.1 Build 00 (c) DS ReSe 2022

Headwall Hyperspec Data Import

Select Input Directory: C:\ReSe\_Software\_Win64\droa  
File Filter: raw\*[01234  
Select Calibration File: >> DEFAULT <<  
Select Reference Image: AUTO  
Ground Elevation:  from Global DEM  fr  
Currently Selected DEM Fi  
... select input directory .  
Select Output Directory: C:\ReSe\_Software\_Win64\droa  
[Help] [Import]

Windows Security

### Enter network credentials

Enter your credentials to connect to: 10.242.84.30

UFAD\ecodyn\_sharma

Remember my credentials

The user name or password is incorrect.

[More choices](#)

- > USB Drive (E:)
- > Network
- > Control Panel
- > Recycle Bin
- > py-radiometric-corrections

[Make New Folder] [OK]



Media Player

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
-----------------------	---------------------------	-----	---------	-------

DROACOR V 2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Licensed for University of Florida - Version 2.0.1 Build 190 (c) DR-DeSe 2022

Headwall Hyperspec Data Import

Select Input Directory: C:\ReSe\_Software\_Win64\droacor\bin\

File Filter: raw\*[0123456789]\_rd

Select Calibration File: >> DEFAULT <<

Select Reference Image: AUTO

Ground Elevation :  from Global DEM  from Meta Data

Currently Selected DEM File:  
... select input directory ...

Select Output Directory: C:\ReSe\_Software\_Win64\droacor\bin\

Help Import

Browse For Folder

Input Directory Location

- > bin
- > demo\_data
- > help
- > glimps
- > IDL87
- > parge
- Temp
- > Users
- > Windows
- > Data (D:)
- > USB Drive (E:)
- > Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- > data1 (10.242.84.30) (Z:)
- Libraries
- > USB Drive (I:)
- > Network
- > Control Panel
- Recycle Bin

Space free: 9.47 TB  
Total size: 26.1 TB

- Recycle
- Acrobat R
- CloudCor
- RNX
- Convert To RINEX
- POSPac U
- Google Chrome
- Zoom
- PDF



ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Package Name	File Name	Size	Buttons
Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install Start
Atcor 4, Version 7			
Droacor, Version 2			
Parge Version 3.5			
Modo 4			
Modo 5.2			
Modo 6.0			

... starting Droacor  
use command: C

Select Input Directory: C:\ReSe\_Software\_Win64\droacor\bin\

File Filter: raw\*[0123456789]\_rd

Select Calibration File: >> DEFAULT <<

Select Reference Image: AUTO

Ground Elevation:  from Global DEM  from Meta Data

Currently Selected DEM File:  
... select input directory ...

Select Output Directory: C:\ReSe\_Software\_Win64\droacor\bin\

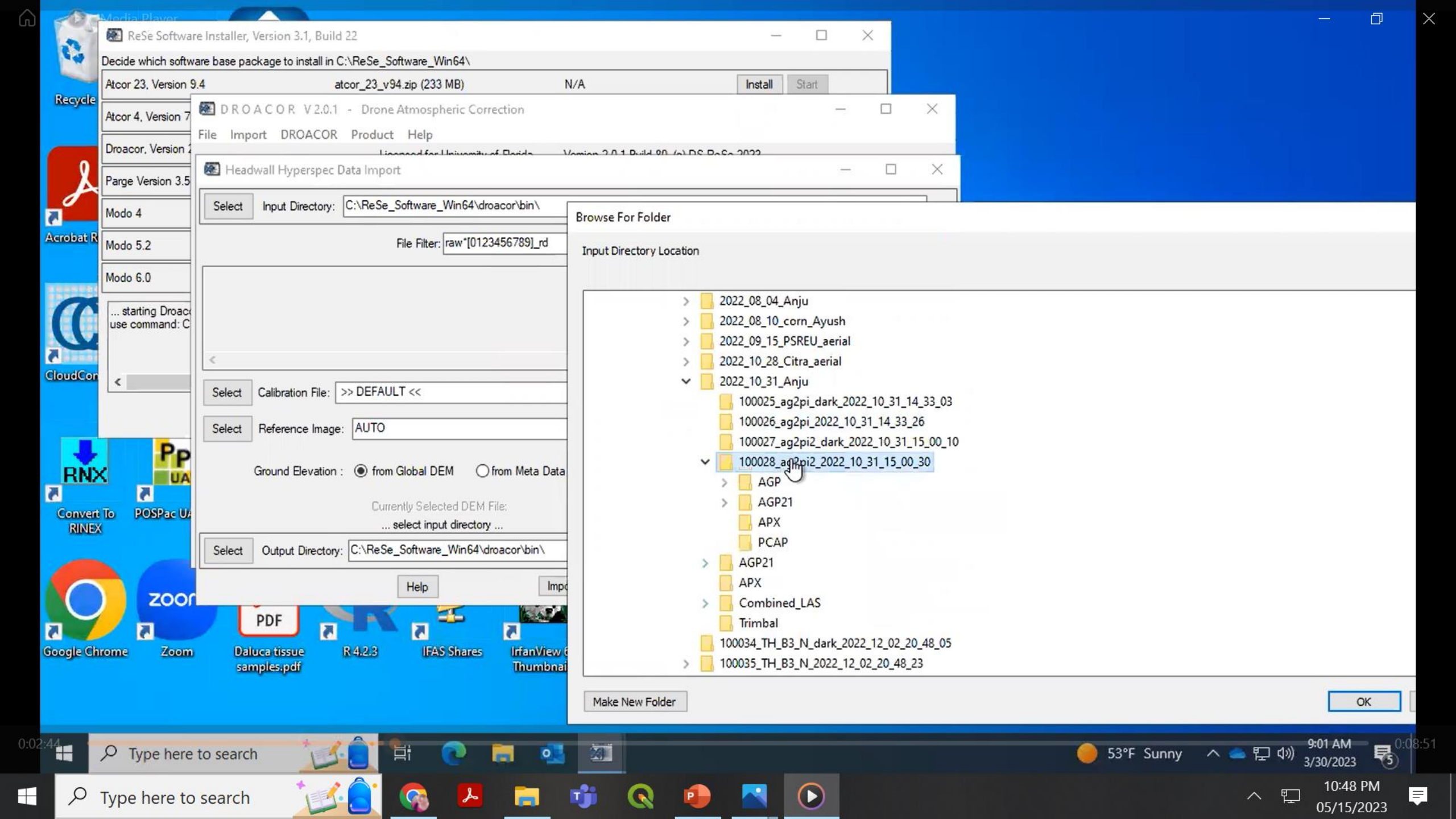
Buttons: Help, Import

Browse For Folder

Input Directory Location

- > 2022\_08\_04\_Anju
- > 2022\_08\_10\_corn\_Ayush
- > 2022\_09\_15\_PSREU\_aerial
- > 2022\_10\_28\_Citra\_aerial
- ▼ 2022\_10\_31\_Anju
  - 100025\_ag2pi\_dark\_2022\_10\_31\_14\_33\_03
  - 100026\_ag2pi\_2022\_10\_31\_14\_33\_26
  - 100027\_ag2pi2\_dark\_2022\_10\_31\_15\_00\_10
  - ▼ 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
    - > AGP
    - > AGP21
    - > APX
    - > PCAP
  - > AGP21
  - > APX
  - > Combined\_LAS
  - > Trimbal
- 100034\_TH\_B3\_N\_dark\_2022\_12\_02\_20\_48\_05
- > 100035\_TH\_B3\_N\_2022\_12\_02\_20\_48\_23

Buttons: Make New Folder, OK



100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New item, Easy access, New folder

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

← → ↕ ↑ > This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 >

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Name	Date modified	Type	Size
03_17_2022			
03_27_2022			
BORESIGHT			
Products			
OneDrive - University of Florida			
This PC			
3D Objects			
Desktop			
Documents			
Downloads			
Music			
Pictures			
Videos			
Windows (C:)			
Data (D:)			
USB Drive (E:)			
Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)			
data1 (\\10.242.84.30) (Z:)			
USB Drive (E:)			
Network			
raw_2000_rd	3/29/2023 12:55 PM	File	1,059,240 KB
raw_2000_rd.hdr	3/29/2023 12:55 PM	HDR File	4 KB
raw_3552	10/31/2022 11:05 AM	File	682,500 KB
raw_3552.hdr	10/31/2022 11:05 AM	HDR File	6 KB
raw_3552.png	10/31/2022 11:12 AM	PNG File	2,831 KB
raw_3552_rd	3/29/2023 12:56 PM	File	1,365,000 KB
raw_3552_rd.hdr	3/29/2023 12:56 PM	HDR File	4 KB
raw_5552	10/31/2022 11:05 AM	File	491,400 KB
raw_5552.hdr	10/31/2022 11:05 AM	HDR File	6 KB
raw_5552.png	10/31/2022 11:12 AM	PNG File	2,044 KB
raw_5552_rd	3/29/2023 12:57 PM	File	982,800 KB
raw_5552_rd.hdr	3/29/2023 12:57 PM	HDR File	4 KB
raw_6992	10/31/2022 11:05 AM	File	682,500 KB
raw_6992.hdr	10/31/2022 11:05 AM	HDR File	6 KB
raw_6992.png	10/31/2022 11:12 AM	PNG File	2,824 KB
raw_6992_rd	3/29/2023 12:57 PM	File	1,365,000 KB
raw_6992_rd.hdr	3/29/2023 12:57 PM	HDR File	4 KB
raw_8992	10/31/2022 11:06 AM	File	501,979 KB
raw_8992.hdr	10/31/2022 11:06 AM	HDR File	6 KB
raw_8992.png	10/31/2022 11:12 AM	PNG File	2,100 KB
raw_8992_rd	3/29/2023 12:58 PM	File	1,003,958 KB
raw_8992_rd.hdr	3/29/2023 12:58 PM	HDR File	4 KB
settings.txt	10/31/2022 11:10 AM	Text Document	1 KB
DRACOR	3/30/2023 8:41 AM	File folder	

50 items 1 item selected State: Online

0:02:56 Type here to search

53°F Sunny 9:02 AM 3/30/2023

0:08:39 Type here to search

10:48 PM 05/15/2023



File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Cut, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New item, Easy access, New folder

Open: Properties, Open, History

Select: Select all, Select none, Invert selection

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - University
- This PC
  - 3D Objects
  - Desktop
  - Documents
  - Downloads
  - Music
  - Pictures
  - Videos
- Windows (C:)
  - Data (D:)
  - USB Drive (E:)
  - Econerv (\\econ-har
  - data1 (\\10.242.84.30) (Z:)
  - USB Drive (F:)

### Headwall Hyperspec Data Import

Select Input Directory: C:\ReSe\_Software\_Win64\droacor\bin\

File Filter: raw\*[0123456789]\_rd

Select Calibration File: >> DEFAULT <<

Select Reference Image: AUTO

Ground Elevation:  from Global DEM  from Meta Data

Currently Selected DEM File:  
... select input directory ...

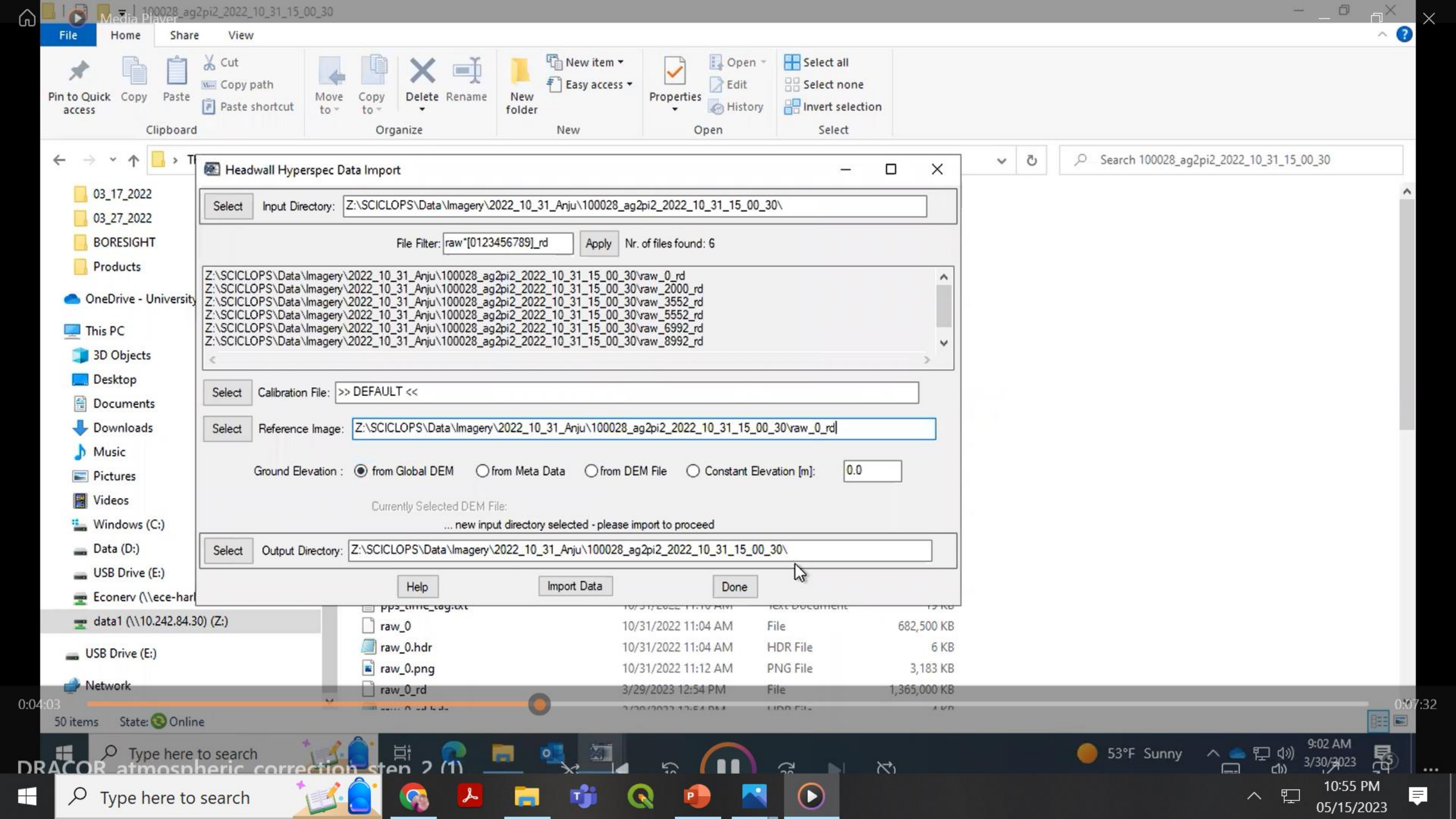
Select Output Directory: C:\ReSe\_Software\_Win64\droacor\bin\

Buttons: Help, Import

### Browse For Folder

Input Directory Location

- > 2022\_08\_04\_Anju
- > 2022\_08\_10\_corn\_Ayush
- > 2022\_09\_15\_PSREU\_aerial
- > 2022\_10\_28\_Citra\_aerial
- ▼ 2022\_10\_31\_Anju
  - 100025\_ag2pi\_dark\_2022\_10\_31\_14\_33\_03
  - 100026\_ag2pi\_2022\_10\_31\_14\_33\_26
  - 100027\_ag2pi2\_dark\_2022\_10\_31\_15\_00\_10
  - ▼ 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
    - > AGP
    - > AGP21
    - APX
    - DRACOR
    - PCAP
    - > AGP21
    - APX
    - > Combined\_LAS
    - Trimbal



File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New item, Easy access, New folder

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

### Headwall Hyperspec Data Import

Select Input Directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\

File Filter: raw\*[0123456789]\_rd Apply Nr. of files found: 6

Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_0\_rd  
 Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_2000\_rd  
 Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_3552\_rd  
 Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_5552\_rd  
 Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_6992\_rd  
 Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_8992\_rd

Select Calibration File: >> DEFAULT <<

Select Reference Image: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_0\_rd

Ground Elevation:  from Global DEM  from Meta Data  from DEM File  Constant Elevation [m]: 0.0

Currently Selected DEM File:  
 ... new input directory selected - please import to proceed

Select Output Directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\

Buttons: Help, Import Data, Done

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - University
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\ece-har...)
- data1 (\\10.242.84.30) (Z:)
- USB Drive (E:)
- Network

Name	Date	Type	Size
raw_0	10/31/2022 11:04 AM	File	682,500 KB
raw_0.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_0.png	10/31/2022 11:12 AM	PNG File	3,183 KB
raw_0_rd	3/29/2023 12:54 PM	File	1,365,000 KB

0:04:03 50 items State: Online 0:07:32

53°F Sunny 9:02 AM 3/30/2023

Type here to search DRACOR atmospheric correction step 2 (1)

Windows Start button, Search bar, Taskbar icons (Chrome, File Explorer, Teams, etc.), System tray (Network, Volume, Date/Time)

10:55 PM 05/15/2023



Media Player

100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

File Home Share View

Pin to Quick access Copy Paste Cut Copy path New item Easy access Open Edit Select all Select none

DROACOR V 2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Licensed for University of Florida Version 2.0.1 Build 80 (c) DS ReSe 2023

```

2023-03-30T09:02:51 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:02:51 acimp_nano: Writing JSON parameter file: Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:02:51 acimp_nano: Working on file : 6 of 6
2023-03-30T09:02:51 acimp_nano: Reading frame sync file: Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:02:52 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:02:52 acimp_nano: Writing JSON parameter file: Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:02:52 Process completed!
2023-03-30T09:02:52 ac_calibrate: Reading reference json: Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:02:52 ac_calibrate: Calibrating sensor based on file
2023-03-30T09:02:52 ac_calibrate: Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\raw_0_rd
2023-03-30T09:02:54 ac_speccal: Calculating spectral shifts ...
2023-03-30T09:02:54 ac_speccal: calibrating on 760 nm feature ...
2023-03-30T09:02:55 ac_speccal: no or not enough bands at 1268 nm for spectral recalibration
2023-03-30T09:02:55 ac_speccal: no or not enough bands at 2000 nm for spectral recalibration
2023-03-30T09:02:56 ac_speccal: Shifts: VNIR: -5.915, SWIR: 999.000 nm
2023-03-30T09:02:56 ac_reslut: Resampling LUT...
2023-03-30T09:03:03 ac_calibrate: LUT file written to: Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:03:03 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:03:03 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:03:03 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:03:04 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:03:04 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:03:04 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\
2023-03-30T09:03:04 ac_import: Import of 6 nano-files completed

```

Show Log File Clear Console  Stop!

Help Import Data Done

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - Universit
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\econerv-10.242.84.30)
- data1 (\\10.242.84.30) (Z:)

pps.txt	10/31/2022 11:10 AM	Text Document	7 KB
pps_time_tag.txt	10/31/2022 11:10 AM	Text Document	19 KB



Media Player

File Home Share View

Pin to Quick access Copy Paste Copy path New item Easy access Open Edit Select all Select none

DROACOR V 2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

- Inflight Calibration
- Dual Target Calibration
- Reflectance Processor
- Thermal Processor
- Batch Processor

```

of Florida Version 2.0.1 Build 80 (c) DS ReSe 2023
2023-03-30T09:02:52 ac_calibrate: Calibrating sensor based on file
2023-03-30T09:02:52 ac_calibrate: Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\raw_0_rd
2023-03-30T09:02:54 ac_speccal: Calculating spectral shifts ...
2023-03-30T09:02:54 ac_speccal: calibrating on 760 nm feature ...
2023-03-30T09:02:55 ac_speccal: no or not enough bands at 1268 nm for spectral recalibration
2023-03-30T09:02:55 ac_speccal: no or not enough bands at 2000 nm for spectral recalibration
2023-03-30T09:02:56 ac_speccal: Shifts: VNIR: -5.915, SWIR: 999.000 nm
2023-03-30T09:02:56 ac_reslut: Resampling LUT...
2023-03-30T09:03:03 ac_calibrate: LUT file written to: Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\at
2023-03-30T09:03:03 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_
2023-03-30T09:03:03 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_
2023-03-30T09:03:03 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_
2023-03-30T09:03:04 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_
2023-03-30T09:03:04 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_
2023-03-30T09:03:04 ac_jsonwrite: Droacor Parameter file written to Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_
2023-03-30T09:03:04 ac_import: Import of 6 nano-files completed
  
```

Show Log File Clear Console  Stop!

Help Import Data Done

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - Universit
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\eccc-har
- data1 (\\10.242.84.30) (Z:)

pps.txt	10/31/2022 11:10 AM	Text Document	7 KB
pps_time_tag.txt	10/31/2022 11:10 AM	Text Document	19 KB

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30



File Home Share View

Pin to Quick access Copy Paste Cut Copy path New item Easy access Open Edit Select all Select none

DROACOR V 2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Reflectance Retrieval - Directory Processor

Select Input Directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\  
Sensor: nano File Filter: raw\_\*.img.bsq Apply  
Nr. of image files: 0

Select Reference Image: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\rav\_0\_rd

Select Output directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\  
Extension: .rfl

Cloud Shadow Removal:  None  Absolute  Relative Polishing:  None  Weak  Medium  Strong  Stronger

Absorption Bands:  No Interpolation  Interpolate 1400/1800  Interpolate All Remove:  None  Interpolated Bands

Side Outputs:  Delete All  Keep Unpolished  Keep All

Help Run DROACOR Show Output Done

Clipboard

03\_17\_2022  
03\_27\_2022  
BORESIGHT  
Products

OneDrive - Universit

This PC  
3D Objects  
Desktop  
Documents  
Downloads  
Music  
Pictures  
Videos

Windows (C:)  
Data (D:)  
USB Drive (E:)  
Econerv (\\ece-har  
data1 (\\10.242.84.3  
USB Drive (E:)  
Network

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

raw\_0.hdr 10/31/2022 11:04 AM HDR File 6 KB



Media Player

100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

File Home Share View

Pin to Quick access Copy Paste Cut Copy path New item Easy access Open Edit Select all Select none

DROACOR V2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Licensed for University of Florida Version 2.0.1 Build 80 (64) DS-De-Sc-2022

Reflectance Retrieval - Directory Processor

Select Input Directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\

Sensor: nano File Filter: raw\_\*.rd Apply

Nr. of image files: 0

Empty list area for image files

Select Reference Image: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\rav\_0\_rd

Select Output directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\ Extension: \_rfl

Cloud Shadow Removal:  None  Absolute  Relative Polishing:  None  Weak  Medium  Strong  Stronger

Absorption Bands:  No Interpolation  Interpolate 1400/1800  Interpolate All Remove:  None  Interpolated Bands

Side Outputs:  Delete All  Keep Unpolished  Keep All

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - Universit
- This PC
  - 3D Objects
  - Desktop
  - Documents
  - Downloads
  - Music
  - Pictures
  - Videos
- Windows (C:)
  - Data (D:)
  - USB Drive (E:)
  - Econerv (\\ece-har
  - data1 (\\10.242.84.3

Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

File Home Share View

Pin to Quick access Copy Paste Cut Copy path New item Easy access Open Edit Select all Select none

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - Universit
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\e-ce-har
- data1 (\\10.242.84.3
- USB Drive (E:)
- Network

DROACOR V 2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Licensed for University of Florida Version 2.0.1 Build 80 (c) DS, Dr. Sc. 2022

Reflectance Retrieval - Directory Processor

Select Input Directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju

Sensor: nano	File F	Nr. o
Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_		
Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_		
Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_		
Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_		
Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_		
Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_		

Select Reference Image: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju

Select Output directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju

Cloud Shadow Removal:  None  Absolute  Relative

Absorption Bands:  No Interpolation  Interpolate 1400/1800

Side Outputs:  Delete All

Help Run DROACOR

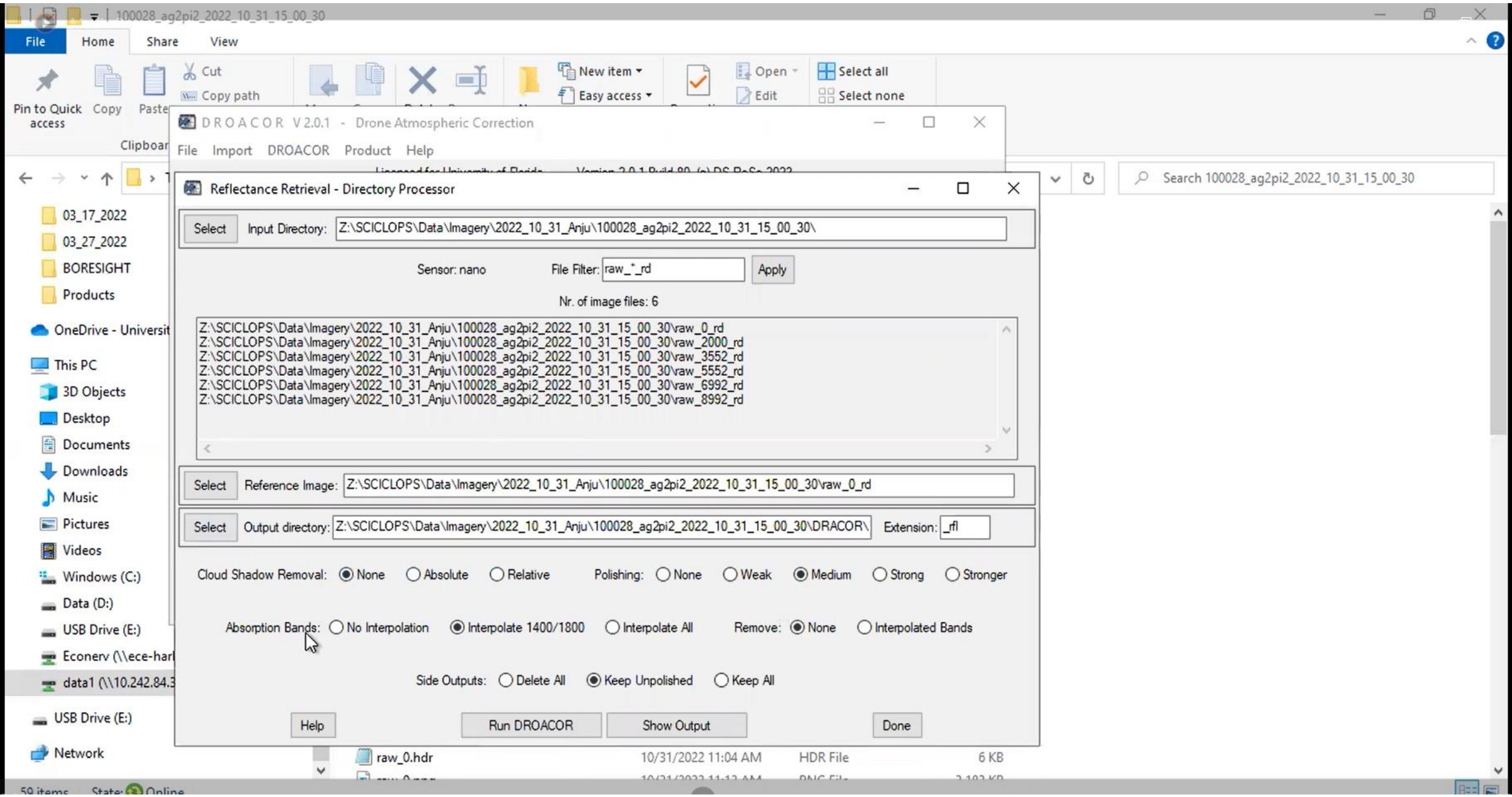
Search 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30

Browse For Folder

Output Directory Location

- > 2022\_09\_15\_PSREU\_aerial
- > 2022\_10\_28\_Citra\_aerial
- > 2022\_10\_31\_Anju
  - 100025\_ag2pi\_dark\_2022\_10\_31\_14\_33\_03
  - 100026\_ag2pi\_2022\_10\_31\_14\_33\_26
  - 100027\_ag2pi2\_dark\_2022\_10\_31\_15\_00\_10
  - > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30
    - > AGP
    - > AGP21
    - APX
    - DRACOR
    - PCAP
  - > AGP21
  - > APX
  - > Combined\_LAS
  - Trimbal
  - 100034\_TH\_B3\_N\_dark\_2022\_12\_02\_20\_48\_05
  - > 100035\_TH\_B3\_N\_2022\_12\_02\_20\_48\_23
  - 100036\_DL473\_dark\_2022\_12\_05\_15\_45\_56

raw\_0.hdr



DROACOR V2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Reflectance Retrieval - Directory Processor

Select Input Directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\

Sensor: nano File Filter: raw\_\*.rd Apply

Nr. of image files: 6

Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_0\_rd  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_2000\_rd  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_3552\_rd  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_5552\_rd  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_6992\_rd  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_8992\_rd

Select Reference Image: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_0\_rd

Select Output directory: Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\DRACOR\ Extension: .rfl

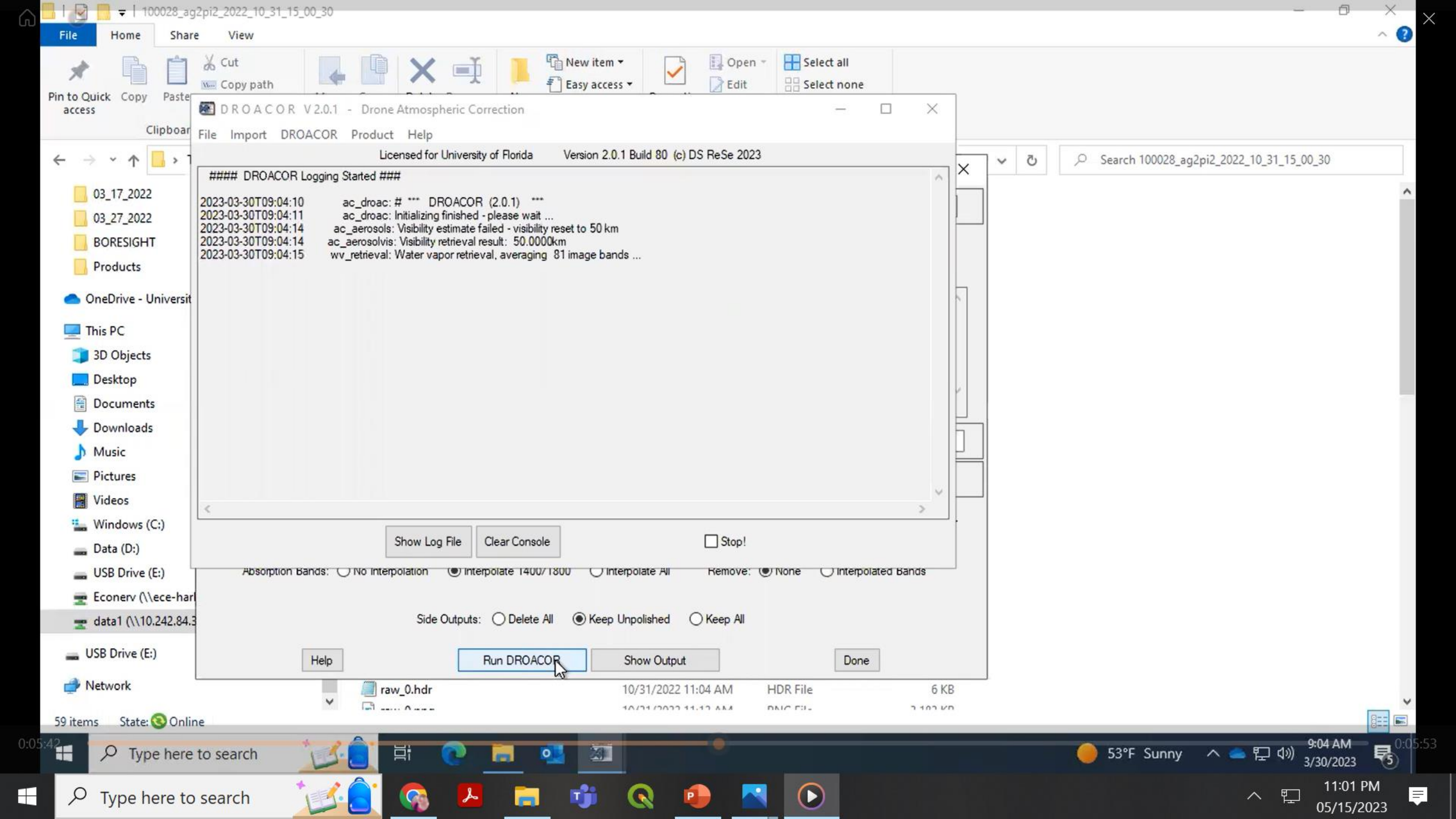
Cloud Shadow Removal:  None  Absolute  Relative Polishing:  None  Weak  Medium  Strong  Stronger

Absorption Bands:  No Interpolation  Interpolate 1400/1800  Interpolate All Remove:  None  Interpolated Bands

Side Outputs:  Delete All  Keep Unpolished  Keep All

Help Run DROACOR Show Output Done

raw_0.hdr	10/31/2022 11:04 AM	HDR File	6 KB
raw_0.hdr	10/31/2022 11:13 AM	DNG File	2,103 KB



DROACOR V2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Licensed for University of Florida Version 2.0.1 Build 80 (c) DS ReSe 2023

```
##### DROACOR Logging Started #####
2023-03-30T09:04:10 ac_droac: # *** DROACOR (2.0.1) ***
2023-03-30T09:04:11 ac_droac: Initializing finished - please wait ...
2023-03-30T09:04:14 ac_aerosols: Visibility estimate failed - visibility reset to 50 km
2023-03-30T09:04:14 ac_aerosolvis: Visibility retrieval result: 50.0000km
2023-03-30T09:04:15 wv_retrieval: Water vapor retrieval, averaging 81 image bands ...
2023-03-30T09:04:19 ac_droac: Image derived water vapor amount: 3.2046573 cm
2023-03-30T09:04:19 Starting reflectance retrieval for Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\raw_0_rd (maximum: 273)
2023-03-30T09:04:19
2023-03-30T09:04:27 Count: 130
```

Show Log File Clear Console Stop!

Absorption Bands:  No Interpolation  Interpolate 1400/1800  Interpolate All Remove:  None  Interpolated Bands

Side Outputs:  Delete All  Keep Unpolished  Keep All

Help Run DROACOR Show Output Done

IDL Status Window

Starting reflectance retrieval for  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_0\_rd

130

Progress of calculation (final: 273)

Cancel

DROACOR V2.0.1 - Drone Atmospheric Correction

File Import DROACOR Product Help

Licensed for University of Florida Version 2.0.1 Build 80 (c) DS ReSe 2023

```
##### DROACOR Logging Started #####
2023-03-30T09:04:10 ac_droac: # *** DROACOR (2.0.1) ***
2023-03-30T09:04:11 ac_droac: Initializing finished - please wait ...
2023-03-30T09:04:14 ac_aerosols: Visibility estimate failed - visibility reset to 50 km
2023-03-30T09:04:14 ac_aerosolvis: Visibility retrieval result: 50.0000km
2023-03-30T09:04:15 wv_retrieval: Water vapor retrieval, averaging 81 image bands ...
2023-03-30T09:04:19 ac_droac: Image derived water vapor amount: 3.2046573 cm
2023-03-30T09:04:19 Starting reflectance retrieval for Z:\SCICLOPS\Data\Imagery\2022_10_31_Anju\100028_ag2pi2_2022_10_31_15_00_30\raw_0_rdr (maximum: 273)
2023-03-30T09:04:19 Count: 130
```

Show Log File Clear Console Stop!

Absorption Bands:  No Interpolation  Interpolate 1400/1800  Interpolate All Remove:  None  Interpolated Bands

Side Outputs:  Delete All  Keep Unpolished  Keep All

Help Run DROACOR Show Output Done

IDL Status Window

Starting reflectance retrieval for  
Z:\SCICLOPS\Data\Imagery\2022\_10\_31\_Anju\100028\_ag2pi2\_2022\_10\_31\_15\_00\_30\raw\_0\_rdr

130

Progress of calculation (final: 273)

Cancel

File Name	Date/Time	File Type	Size
raw_0_hdr	10/31/2022 11:04 AM	HDR File	6 KB
...	10/31/2022 11:13 AM	...	...

Clipboard: Pin to Quick access, Copy, Paste, Cut, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, New item, Easy access

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 > DRACOR Search DRACOR

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - University of Florida
- This PC
  - 3D Objects
  - Desktop
  - Documents
  - Downloads
  - Music
  - Pictures
  - Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- data1 (\\10.242.84.30) (Z:)

Name	Date modified	Type	Size
droacor_rfl_2023-03-30T13.log	3/30/2023 8:43 AM	Text Document	1 KB
raw_0_rd_rfl.bsq	3/30/2023 8:44 AM	BSQ File	682,500 KB
raw_0_rd_rfl.hdr	3/30/2023 8:44 AM	HDR File	8 KB
raw_0_rd_rfl.json	3/30/2023 8:44 AM	JSON Source File	17 KB
raw_0_rd_rfl.log	3/30/2023 8:44 AM	Text Document	5 KB
raw_0_rd_rfl_ft.bsq	3/30/2023 8:44 AM	BSQ File	682,500 KB
raw_0_rd_rfl_ft.hdr	3/30/2023 8:44 AM	HDR File	10 KB
raw_0_rd_rfl_ft.json	3/30/2023 8:44 AM	JSON Source File	17 KB
raw_2000_rd_rfl.bsq	3/30/2023 8:45 AM	BSQ File	529,620 KB
raw_2000_rd_rfl.hdr	3/30/2023 8:45 AM	HDR File	8 KB
raw_2000_rd_rfl.json	3/30/2023 8:45 AM	JSON Source File	17 KB
raw_2000_rd_rfl.log	3/30/2023 8:45 AM	Text Document	5 KB
raw_2000_rd_rfl_ft.bsq	3/30/2023 8:45 AM	BSQ File	529,620 KB
raw_2000_rd_rfl_ft.hdr	3/30/2023 8:45 AM	HDR File	10 KB
raw_2000_rd_rfl_ft.json	3/30/2023 8:45 AM	JSON Source File	17 KB
raw_3552_rd_rfl.bsq	3/30/2023 8:46 AM	BSQ File	3,072 KB
raw_3552_rd_rfl.log	3/30/2023 8:46 AM	Text Document	2 KB







DRACOR  
Media Player



File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Cut, Copy path, Paste shortcut, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, New item, Easy access

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

← → ↕ ⏪ ⏩ << data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_10\_31\_Anju > 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 > DRACOR

🔍 Search DRACOR

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - University of Florida
- This PC
  - 3D Objects
  - Desktop
  - Documents
  - Downloads
  - Music
  - Pictures
  - Videos
- Windows (C:)
  - Data (D:)
  - USB Drive (E:)
  - Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
  - data1 (\\10.242.84.30) (Z:)

Name	Date modified	Type	Size
droacor_rfl_2023-03-30T13.log	3/30/2023 8:43 AM	Text Document	1 KB
raw_0_rd_rfl.bsq	3/30/2023 8:44 AM	BSQ File	682,500 KB
raw_0_rd_rfl.hdr	3/30/2023 8:44 AM	HDR File	8 KB
raw_0_rd_rfl.json	3/30/2023 8:44 AM	JSON Source File	17 KB
raw_0_rd_rfl.log	3/30/2023 8:44 AM	Text Document	5 KB
raw_0	3/30/2023 8:44 AM	File	682,500 KB
raw_0_rd_rfl_ft.hdr	3/30/2023 8:44 AM	HDR File	10 KB
raw_0_rd_rfl_ft.json	3/30/2023 8:44 AM	JSON Source File	17 KB
raw_2000_rd_rfl.bsq	3/30/2023 8:45 AM	BSQ File	529,620 KB
raw_2000_rd_rfl.hdr	3/30/2023 8:45 AM	HDR File	8 KB
raw_2000_rd_rfl.json	3/30/2023 8:45 AM	JSON Source File	17 KB
raw_2000_rd_rfl.log	3/30/2023 8:45 AM	Text Document	5 KB
raw_2000_rd_rfl_ft.bsq	3/30/2023 8:45 AM	BSQ File	529,620 KB
raw_2000_rd_rfl_ft.hdr	3/30/2023 8:45 AM	HDR File	10 KB
raw_2000_rd_rfl_ft.json	3/30/2023 8:45 AM	JSON Source File	17 KB
raw_3552_rd_rfl.bsq	3/30/2023 8:46 AM	BSQ File	616,024 KB
raw_3552_rd_rfl.log	3/30/2023 8:46 AM	Text Document	2 KB



DRACOR  
Media Player

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Cut, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, New item, Easy access

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

« data1 (\\10.242.84.30) (Z:) » SCICLOPS » Data » Imagery » 2022\_10\_31\_Anju » 100028\_ag2pi2\_2022\_10\_31\_15\_00\_30 » DRACOR Search DRACOR

- 03\_17\_2022
- 03\_27\_2022
- BORESIGHT
- Products
- OneDrive - University of Florida
- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows (C:)
- Data (D:)
- USB Drive (E:)
- Econerv (\\ece-harley-nas.ad.ufl.edu) (X:)
- data1 (\\10.242.84.30) (Z:)

Name	Date modified	Type	Size
droacor_rfl_2023-03-30T13.log	3/30/2023 8:43 AM	Text Document	1 KB
raw_0	3/30/2023 8:44 AM	File	682,500 KB
raw_0_rd_rfl.bsq	3/30/2023 8:44 AM	BSQ File	682,500 KB
raw_0_rd_rfl.hdr	3/30/2023 8:44 AM	HDR File	8 KB
raw_0_rd_rfl.json	3/30/2023 8:44 AM	JSON Source File	17 KB
raw_0_rd_rfl.log	3/30/2023 8:44 AM	Text Document	5 KB
raw_0_hdr	3/30/2023 8:44 AM	HDR File	10 KB
raw_0_rd_rfl_ft.json	3/30/2023 8:44 AM	JSON Source File	17 KB
raw_2000_rd_rfl.bsq	3/30/2023 8:45 AM	BSQ File	529,620 KB
raw_2000_rd_rfl.hdr	3/30/2023 8:45 AM	HDR File	8 KB
raw_2000_rd_rfl.json	3/30/2023 8:45 AM	JSON Source File	17 KB
raw_2000_rd_rfl.log	3/30/2023 8:45 AM	Text Document	5 KB
raw_2000_rd_rfl_ft.bsq	3/30/2023 8:45 AM	BSQ File	529,620 KB
raw_2000_rd_rfl_ft.hdr	3/30/2023 8:45 AM	HDR File	10 KB
raw_2000_rd_rfl_ft.json	3/30/2023 8:45 AM	JSON Source File	17 KB
raw_3552_rd_rfl.bsq	3/30/2023 8:46 AM	BSQ File	682,500 KB
raw_3552_rd_rfl.hdr	3/30/2023 8:46 AM	HDR File	8 KB
raw_3552_rd_rfl.json	3/30/2023 8:46 AM	JSON Source File	17 KB
raw_3552_rd_rfl.log	3/30/2023 8:46 AM	Text Document	2 KB
raw_3552_rd_rfl_ft.bsq	3/30/2023 8:46 AM	BSQ File	527,360 KB

2201\_2400

if-abe-wksingh.ad.ufl.edu

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename, New folder

New: New item, Easy access

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

Address bar: This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_04\_13\_Ayush > 100035\_hastings2\_2022\_04\_13\_16\_12\_10 > DRACOR\_2 > 2201\_2400

Search: Search 2201\_2400

Name	Date modified	Type	Size
2201-2300	3/28/2023 10:09 PM	File folder	
Allband_allimages	3/28/2023 10:04 PM	File folder	
frameIndex_228746.txt	4/13/2022 1:19 PM	Text Document	2 KB
frameIndex_228846.txt	4/13/2022 1:19 PM	Text Document	2 KB
frameIndex_228946.txt	4/13/2022 1:19 PM	Text Document	2 KB
frameIndex_229046.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229146.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229246.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229346.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229446.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229546.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229646.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229746.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229846.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229946.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230046.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230146.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230246.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230346.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230446.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230546.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230646.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230746.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230846.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230946.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231046.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231146.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231246.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231346.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231446.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231546.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231646.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231746.txt	4/13/2022 1:20 PM	Text Document	2 KB

File Explorer window showing a directory structure. The address bar indicates the path: This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_04\_13\_Ayush > 100035\_hastings2\_2022\_04\_13\_16\_12\_10 > DRACOR\_2 > 2201\_2400 >

The left sidebar shows navigation options like Quick access, Desktop, Downloads, Documents, Pictures, Allband\_Allimages, BORESIGHT, full, Products, OneDrive - University of Florida, This PC, 3D Objects, Desktop, Documents, Downloads, Music, Pictures, Videos, Windows (C:), Data (D:), USB Drive (E:), Econerv (\\eace-harley-nas.ad.ufl.edu) (X:), data1 (\\10.242.84.30) (Z:), USB Drive (E:), and Network.

The main pane displays a list of files with columns for Name, Date modified, Type, and Size. The file 'raw\_228746.hdr' is selected, and a tooltip is visible over it.

Name	Date modified	Type	Size
frameIndex_230924.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237054.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237154.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237254.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237354.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237454.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237554.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237654.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237754.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237854.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_237954.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_238054.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_238154.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_238254.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_238354.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_238454.txt	4/13/2022 1:21 PM	Text Document	2 KB
frameIndex_238554.txt	4/13/2022 1:21 PM	Text Document	2 KB
imu_gps.txt	4/13/2022 1:25 PM	Text Document	75,139 KB
NAV_DSM	3/29/2023 10:58 AM	File	654,057 KB
NAV_DSM.hdr	3/29/2023 10:58 AM	HDR File	1 KB
parge_error.log	3/29/2023 11:04 AM	Text Document	4 KB
raw_228746	2/20/2023 9:09 AM	File	34,125 KB
raw_228746.hdr	2/20/2023 9:09 AM	HDR File	9 KB
raw_228746	2/20/2023 9:09 AM	HDR File	8 KB
raw_228746	2/20/2023 9:10 AM	File	34,125 KB
raw_228746	2/20/2023 9:10 AM	HDR File	9 KB
raw_228846_rd_rfl.hdr	2/20/2023 9:10 AM	HDR File	8 KB
raw_228946	2/20/2023 9:11 AM	File	34,125 KB
raw_228946.hdr	2/20/2023 9:11 AM	HDR File	9 KB
raw_228946_rd_rfl.hdr	2/20/2023 9:11 AM	HDR File	8 KB
raw_229046	2/20/2023 9:13 AM	File	34,125 KB
raw_229046.hdr	2/20/2023 9:13 AM	HDR File	9 KB
raw_229046_rd_rfl.hdr	2/20/2023 9:13 AM	HDR File	8 KB
raw_229146	2/20/2023 9:14 AM	File	34,125 KB
raw_229146.hdr	2/20/2023 9:14 AM	HDR File	9 KB
raw_229146_rd_rfl.hdr	2/20/2023 9:14 AM	HDR File	8 KB
raw_229246	2/20/2023 9:15 AM	File	34,125 KB
raw_229246.hdr	2/20/2023 9:15 AM	HDR File	9 KB
raw_229246_rd_rfl.hdr	2/20/2023 9:14 AM	HDR File	8 KB

409 items 1 item selected State: Online

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Cut, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename, New folder, Easy access

New: New item, Easy access

Open: Properties, Open, Edit, History

Select: Select all, Select none, Invert selection

← → ↑ This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_04\_13\_Ayush > 100035\_hastings2\_2022\_04\_13\_16\_12\_10 > DRACOR\_2 > 2201\_2400

Search 2201\_2400

Name	Date modified	Type	Size
raw_237454	2/20/2023 10:43 AM	File	34,125 KB
raw_237454.hdr	2/20/2023 10:43 AM	HDR File	9 KB
raw_237454_rd_rfl.hdr	2/20/2023 10:43 AM	HDR File	8 KB
raw_237554	2/20/2023 10:44 AM	File	34,125 KB
raw_237554.hdr	2/20/2023 10:44 AM	HDR File	9 KB
raw_237554_rd_rfl.hdr	2/20/2023 10:44 AM	HDR File	8 KB
raw_237654	2/20/2023 10:45 AM	File	34,125 KB
raw_237654.hdr	2/20/2023 10:45 AM	HDR File	9 KB
raw_237654_rd_rfl.hdr	2/20/2023 10:45 AM	HDR File	8 KB
raw_237754	2/20/2023 10:46 AM	File	34,125 KB
raw_237754.hdr	2/20/2023 10:46 AM	HDR File	9 KB
raw_237754_rd_rfl.hdr	2/20/2023 10:46 AM	HDR File	8 KB
raw_237854	2/20/2023 10:47 AM	File	34,125 KB
raw_237854.hdr	2/20/2023 10:47 AM	HDR File	9 KB
raw_237854_rd_rfl.hdr	2/20/2023 10:47 AM	HDR File	8 KB
raw_237954	2/20/2023 10:48 AM	File	34,125 KB
raw_237954.hdr	2/20/2023 10:48 AM	HDR File	9 KB
raw_237954_rd_rfl.hdr	2/20/2023 10:48 AM	HDR File	8 KB
raw_238054	2/20/2023 10:50 AM	File	34,125 KB
raw_238054.hdr	2/20/2023 10:50 AM	HDR File	9 KB
raw_238054_rd_rfl.hdr	2/20/2023 10:50 AM	HDR File	8 KB
raw_238154	2/20/2023 10:51 AM	File	34,125 KB
raw_238154.hdr	2/20/2023 10:51 AM	HDR File	9 KB
raw_238154_rd_rfl.hdr	2/20/2023 10:51 AM	HDR File	8 KB
raw_238254	2/20/2023 10:52 AM	File	34,125 KB
raw_238254.hdr	2/20/2023 10:52 AM	HDR File	9 KB
raw_238254_rd_rfl.hdr	2/20/2023 10:52 AM	HDR File	8 KB
raw_238354	2/20/2023 10:53 AM	File	34,125 KB
raw_238354.hdr	2/20/2023 10:53 AM	HDR File	9 KB
raw_238354_rd_rfl.hdr	2/20/2023 10:53 AM	HDR File	8 KB
raw_238454	2/20/2023 10:54 AM	File	34,125 KB
raw_238454.hdr	2/20/2023 10:54 AM	HDR File	9 KB
raw_238454_rd_rfl.hdr	2/20/2023 10:54 AM	HDR File	8 KB
raw_238554	2/20/2023 10:55 AM	File	34,125 KB
raw_238554.hdr	2/20/2023 10:55 AM	HDR File	9 KB
raw_238554_rd_rfl.hdr	2/20/2023 10:55 AM	HDR File	8 KB
SBET_export_Mission 1.log	2/18/2023 11:04 PM	Text Document	2 KB
SBET_export_Mission 1.out	2/18/2023 11:04 PM	OUT File	67,067 KB

File Home Share View

Clipboard: Pin to Quick access, Copy, Paste, Copy path, Paste shortcut

Organize: Move to, Copy to, Delete, Rename

New: New folder, Easy access, New item

Open: Properties, Edit, History

Select: Select all, Select none, Invert selection

← → ↑ This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data > Imagery > 2022\_04\_13\_Ayush > 100035\_hastings2\_2022\_04\_13\_16\_12\_10 > DRACOR\_2 > 2201\_2400 >

Search 2201\_2400

Name	Date modified	Type	Size
2201-2300	3/28/2023 10:09 PM	File folder	
Allband_allimages	3/28/2023 10:04 PM	File folder	
dsm.tif	2/23/2023 2:52 PM	TIF File	654,169 KB
frameIndex_228746.txt	4/13/2022 1:19 PM	Text Document	2 KB
frameIndex_228846.txt	4/13/2022 1:19 PM	Text Document	2 KB
frameIndex_228946.txt	4/13/2022 1:19 PM	Text Document	2 KB
frameIndex_229046.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229146.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229246.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229346.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229446.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229546.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229646.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229746.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229846.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_229946.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230046.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230146.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230246.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230346.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230446.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230546.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230646.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230746.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230846.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_230946.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231046.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231146.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231246.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231346.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231446.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231546.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231646.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231746.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231846.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_231946.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_232046.txt	4/13/2022 1:20 PM	Text Document	2 KB
frameIndex_232146.txt	4/13/2022 1:20 PM	Text Document	2 KB

406 items State: Online

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
Atcor 4, Version 7.4	atcor_4_v74.zip (159 MB)	N/A	Install	Start
Droacor, Version 2.0	droacor_v20.zip (51 MB)	Installed	Re-Install	Start
Parge Version 3.5	parge_v35.zip (55 MB)	Installed	Re-Install	Start
Modo 4	modo_v4.zip (59 MB)	N/A	Install	Start
Modo 5.2	modo_v52.zip (23 MB)	N/A	Install	Start
Modo 6.0	modo_v60.zip (40 MB)	N/A	Install	Start

choose applications to install...

Web Download  from USB Stick or HD

0

Cancel Download

Help Check Connection Proxy Settings Done

Convert To RINEX  
POSPac UAV 8.8  
Daluca\_soil.pdf

Google Chrome  
Zoom  
Daluca tissue samples.pdf

R 4.2.3  
Microsoft Teams  
Daluca tissue samples.xlsx

IFAS Shares  
ReSe\_Software - Shortcut  
R 4.2.2  
IrfanView 64 Thumbnails  
IrfanView 64  
Microsoft Edge  
Error of allocation ...  
Plot\_shp\_buff...  
Spectral indices\_ENVI...  
Visual Studio Code  
py-radiometri...





P A R G E Parametric Orthorectification

- File
- Edit
- DEM
- Auxiliary
- Control
- Special
- QC
- Processor
- Help

Import >

- ENVI
- Raw
- Global Elevation
- ARC GRID-ASCII
- ASCII Points
- Lon-Lat/DTED
- GEOTIFF**
- ERDAS Imagine
- PCI
- USGS
- Swiss L+T

Create DEM

Define Parameters

Resize DEM

Display DEM

Smoothing

Slope/Aspect

Shading

Skyview Factor

ATCOR Preparation

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Software Name	Package File	Status	Buttons
Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install Start
Atcor 4, Version 7.4	atcor_4_v74.zip (159 MB)	N/A	Install Start
Droacor, Version 2.0	droacor_v20.zip (51 MB)	Installed	Re-Install Start
Parge Version 3.5	parge_v35.zip (55 MB)	Installed	Re-Install Start
Modo 4	modo_v4.zip (59 MB)	N/A	Install Start
Modo 5.2	modo_v52.zip (23 MB)	N/A	Install Start
Modo 6.0	modo_v60.zip (40 MB)	N/A	Install Start

... starting Parge Version 3.5  
use command: C:\ReSe\_Software\_Win64\IDL87\IDL87\bin\bin.x86\_64\dlit.exe -vm="C:\ReSe\_Sof

Web Download  from USB Stick or HD

0

Cancel Download

Help Check Connection Proxy Settings Done

Read GEOTIFF DEM

This PC > data1 (\\10.242.84.30) (Z:) > SCICLOPS > Data

Organize New folder

Name	Date modified	Type	Size
100039_hastings_cal_2022_04_13_17_49_25	12/21/2022 8:27 PM	File folder	
APX	12/13/2022 11:24 AM	File folder	
Data_Parge	12/14/2022 2:56 PM	File folder	
for_Loren	3/2/2022 2:41 PM	File folder	
Imagery	1/31/2023 3:42 PM	File folder	
LiDAR	4/19/2022 10:33 AM	File folder	
Trimble	12/11/2022 11:34 AM	File folder	
Non-Admin Workflow PP Installation.pdf	10/28/2022 2:17 PM	Adobe Acrobat D...	138 KB

File name:  \*.\*

Install Start

Install Start

Re-Install Start

Re-Install Start

Install Start

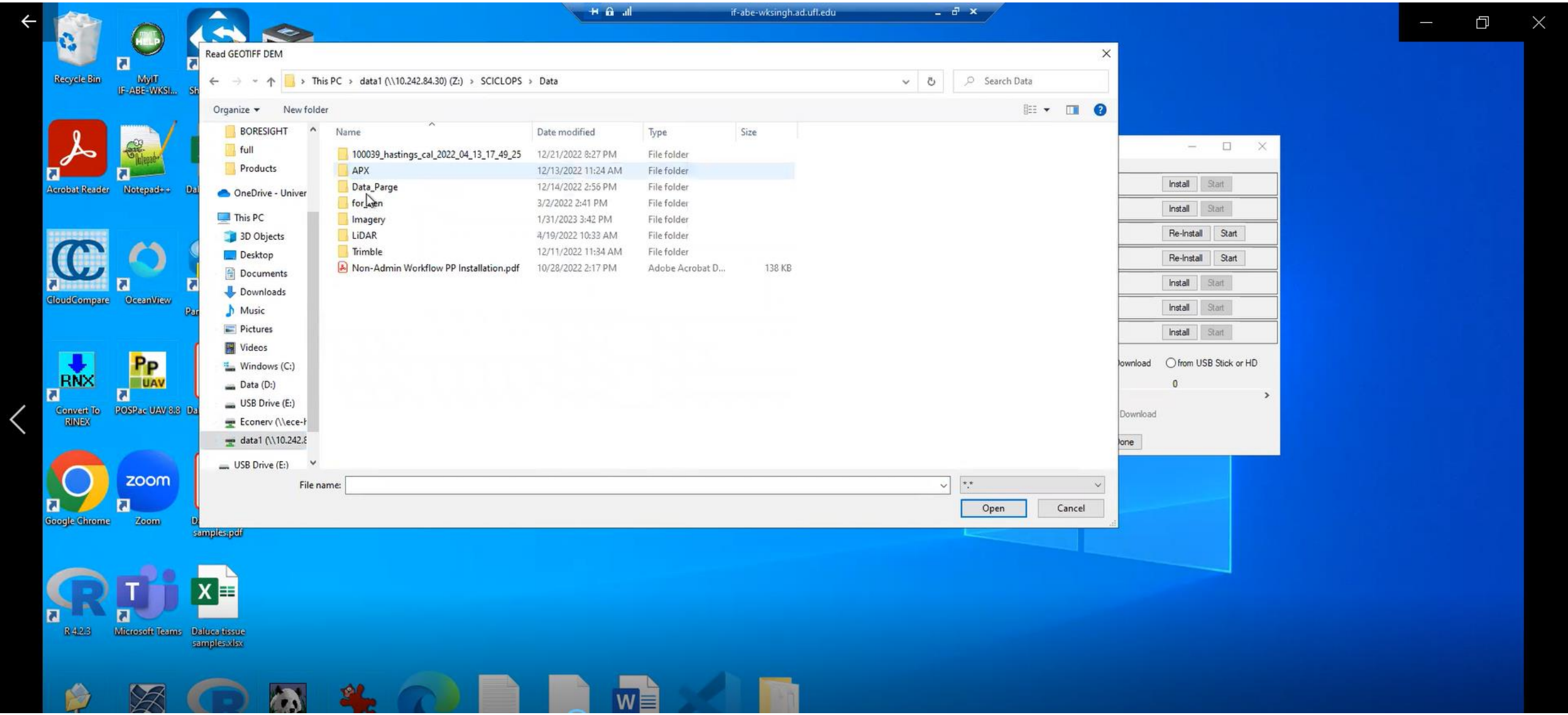
Install Start

Download  from USB Stick or HD

0

Download

Done



P A R G E Parametric Orthorectification  
File Edit DEM Auxiliary Control Special QC Processor Help

Define Output File Name

<< SCICLOPS >> Data > Imagery > 2022\_04\_13\_Ayush > 100035\_hastings2\_2022\_04\_13\_16\_12\_10 > DRACOR\_2 > 2201\_2400 >

Search 2201\_2400

Organize	New folder	Name	Date modified	Type	Size
		full			
		Products			
		OneDrive - Univer			
		This PC			
		3D Objects			
		Desktop			
		Documents			
		Downloads			
		Music			
		Pictures			
		Videos			
		Windows (C:)			
		Data (D:)			
		USB Drive (E:)			
		Econerv (\\vece-1			
		data1 (\\10.242.8			
		2201-2300	3/28/2023 10:09 PM	File folder	
		Allband_allimages	3/28/2023 10:04 PM	File folder	
		dsm.tif	2/23/2023 2:52 PM	TIF File	654,169 KB
		frameIndex_228746.txt	4/13/2022 1:19 PM	Text Document	2 KB
		frameIndex_228846.txt	4/13/2022 1:19 PM	Text Document	2 KB
		frameIndex_228946.txt	4/13/2022 1:19 PM	Text Document	2 KB
		frameIndex_229046.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229146.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229246.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229346.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229446.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229546.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229646.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229746.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229846.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_229946.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_230046.txt	4/13/2022 1:20 PM	Text Document	2 KB
		frameIndex_230146.txt	4/13/2022 1:20 PM	Text Document	2 KB

File name: NAV\_DSM

Save as type: \*.\*

Save Cancel

Install Start

Install Start

Re-Install Start

Re-Install Start

Install Start

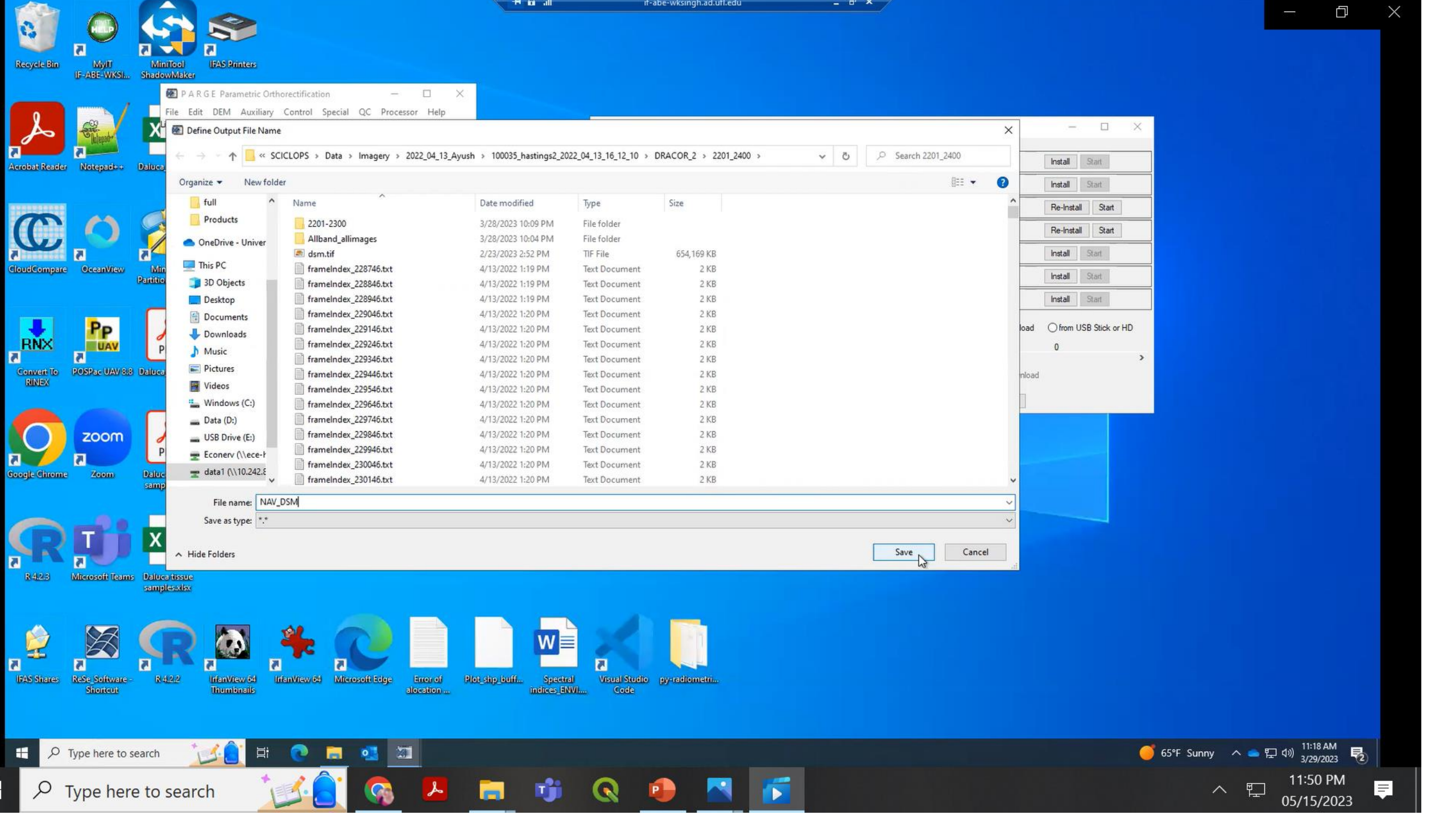
Install Start

Install Start

load  from USB Stick or HD

0

download





P A R G E Parametric Orthorectification

File Edit DEM Auxiliary Control Special QC Processor Help

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IDL Status Window

Converting Tiff to ENVI from  
Z:\SCICLOPS\Data\imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\ds m.tif

working on band:  
1

Progress of calculation (final: 1)

Cancel

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install Start
Atcor 4, Version 7.4	atcor_4_v74.zip (159 MB)	N/A	Install Start
Droacor, Version 2.0	droacor_v20.zip (51 MB)	Installed	Re-Install Start
Parge Version 3.5	parge_v35.zip (55 MB)	Installed	Re-Install Start
Modo 4	modo_v4.zip (59 MB)	N/A	Install Start
Modo 5.2	modo_v52.zip (23 MB)	N/A	Install Start
Modo 6.0	modo_v60.zip (40 MB)	N/A	Install Start

... starting Parge Version 3.5  
use command: C:\ReSe\_Software\_Win64\IDL87\bin\bin\_x86\_64\dlrt.exe -vm="C:\ReSe\_Sof

Web Download  from USB Stick or HD

0

Cancel Download

Help Check Connection Proxy Settings Done



P A R G E Parametric Orthorectification  
File Edit DEM Auxiliary Control Special QC Processor Help  
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IDL Alert Window  
Attention: DEM values below -1000m detected - will be reset to zero | OK

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
Atcor 4, Version 7.4	atcor_4_v74.zip (159 MB)	N/A	Install	Start
Droacor, Version 2.0	droacor_v20.zip (51 MB)	Installed	Re-Install	Start
Parge Version 3.5	parge_v35.zip (55 MB)	Installed	Re-Install	Start
Modo 4	modo_v4.zip (59 MB)	N/A	Install	Start
Modo 5.2	modo_v52.zip (23 MB)	N/A	Install	Start
Modo 6.0	modo_v60.zip (40 MB)	N/A	Install	Start

... starting Parge Version 3.5  
use command: C:\ReSe\_Software\_Win64\IDL87\IDL87\bin\x86\_64\dlit.exe -vm="C:\ReSe\_Sof

Web Download  from USB Stick or HD

0

Cancel Download

Help Check Connection Proxy Settings Done



P A R G E Parametric Orthorectification

File Edit DEM Auxiliary Control Special QC Processor Help  
Version 3.5, © DS ReSe 2022

- Import
- Create DEM
- Define Parameters
- Resize DEM
- Display DEM**
- Smoothing
- Slope/Aspect
- Shading
- Skyview Factor
- ATCOR Preparation

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
Atcor 4, Version 7.4	atcor_4_v74.zip (159 MB)	N/A	Install	Start
Droacor, Version 2.0	droacor_v20.zip (51 MB)	Installed	Re-Install	Start
Parge Version 3.5	parge_v35.zip (55 MB)	Installed	Re-Install	Start
Modo 4	modo_v4.zip (59 MB)	N/A	Install	Start
Modo 5.2	modo_v52.zip (23 MB)	N/A	Install	Start
Modo 6.0	modo_v60.zip (40 MB)	N/A	Install	Start

... starting Parge Version 3.5  
use command: C:\ReSe\_Software\_Win64\NDL87\NDL87\bin\bin.x86\_64\idlit.exe -vm="C:\ReSe\_Sof

Web Download  from USB Stick or HD

0

Cancel Download

Help Check Connection Proxy Settings Done

Recycle Bin

MyIT IF-ABE-WKSI...

MintTool ShadowMaker

IFAS Printers

Acrobat Reader

Notepad++

Daluc...

CloudCompare

OceanView

Mint...

Partic...

Convert To RINEX

PP UAV

POS Pac UAV 8.8

Daluc...

Google Chrome

Zoom

Daluc...

samp...

R 4.2.3

Microsoft Teams

Daluc...

samp...

IFAS Shares

ReSe\_Software - Shortcut

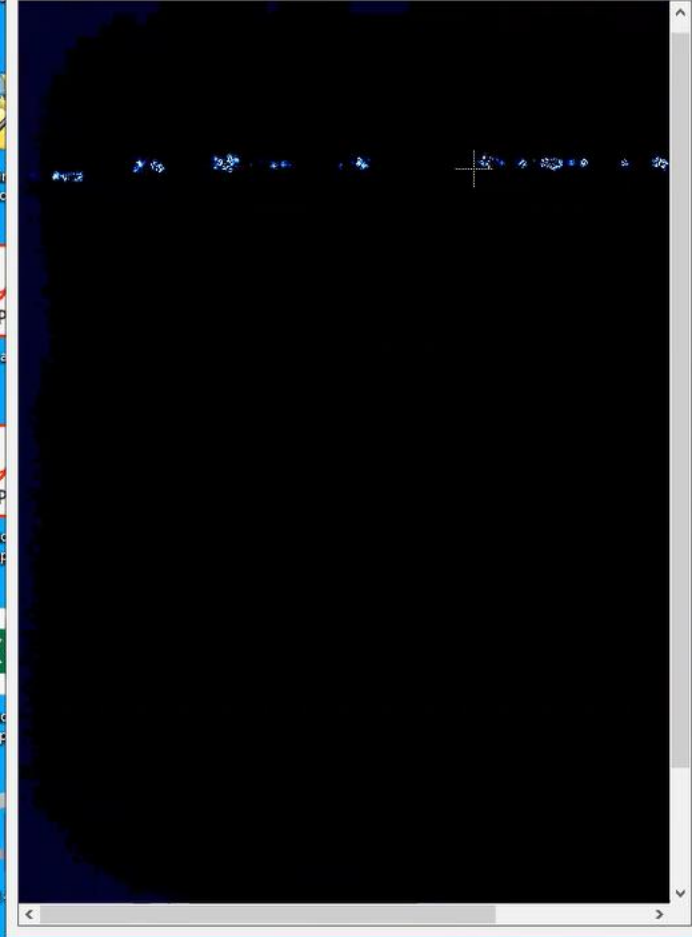
R...

P A R G E Parametric Orthorectification

File Edit DEM Auxiliary Control Special QC Processor Help

..2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\NAV\_DSM

File Edit Profile Calculate Export Help



P A R G E Parametric Orthorectification

File Edit Profile Calculate Export Help



Download Progress

N/A	Install	Start
N/A	Install	Start
Installed	Re-Install	Start
Installed	Re-Install	Start
N/A	Install	Start
N/A	Install	Start
N/A	Install	Start

File Name: ...\ReSe\_Sof

Web Download  from USB Stick or HD

0

Cancel Download

Done



P A R G E Parametric Orthorectification

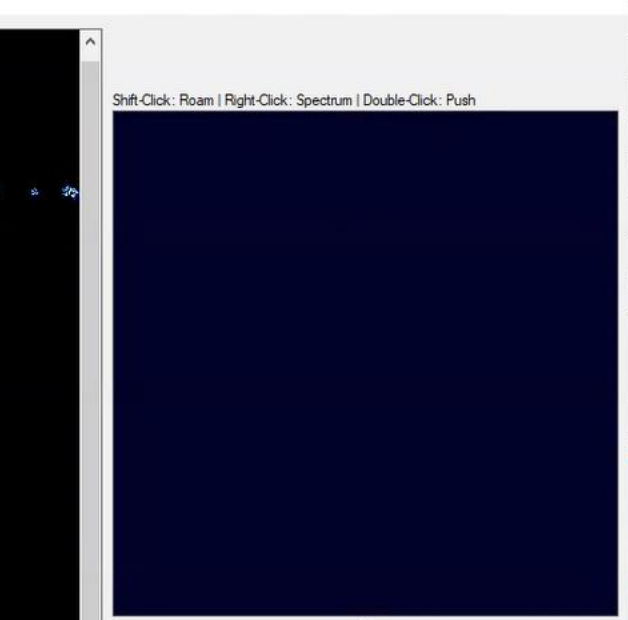
File Edit DEM Auxiliary Control Special QC Processor Help  
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Version 3.5 © DS ReSe 2022

File Edit Profile Calculate Export Help

Equalize Image

- Scale Image >
  - Scale Zoom >
  - No Scaling
  - Scale to Range
  - Load Color Table
  - Flip Vertically
  - Resize Image
- Mean-1
  - Mean-2
  - Mean-3
  - Lin 1%
  - Lin 2%
  - Lin 4%
  - RGB 2%

..2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\NAV\_DSM



Zoom Scale

Position x: 461837.925 y: 3290722.925

Image Value(s)  
Band Number: 1

Get Position Push Position



N/A	Install	Start
N/A	Install	Start
Installed	Re-Install	Start
Installed	Re-Install	Start
N/A	Install	Start
N/A	Install	Start
N/A	Install	Start

Web Download (selected) or from USB Stick or HD

0

Cancel Download

Done

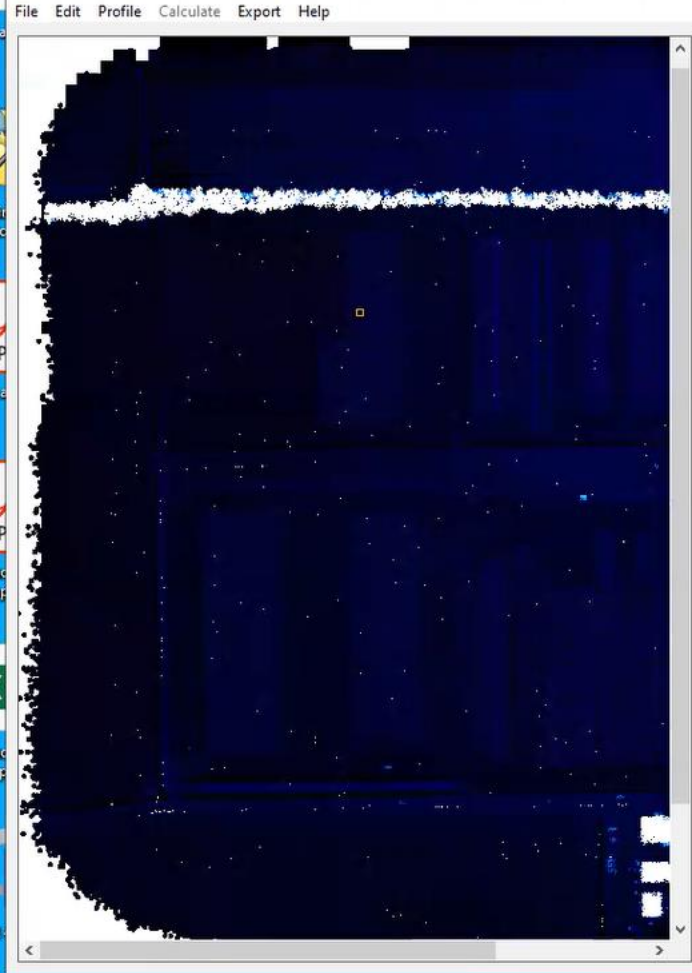




P A R G E Parametric Orthorectification

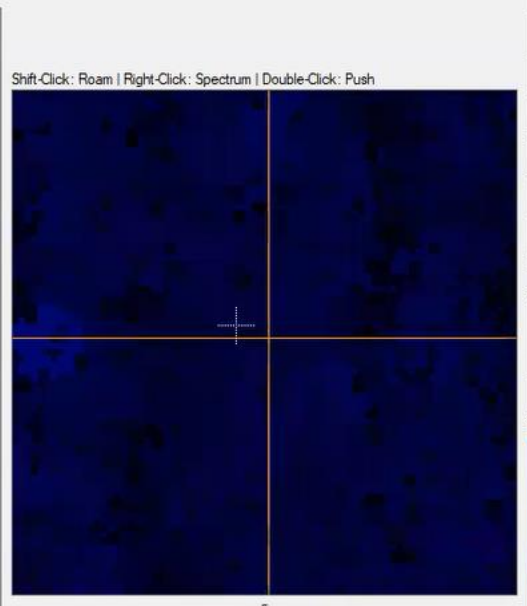
File Edit DEM Auxiliary Control Special QC Processor Help  
Licensed for University of Florida  
Version 3.5 © DS ReSe 2022

File Edit Profile Calculate Export Help



..2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\NAV\_DSM

File Edit Profile Calculate Export Help



Zoom Scale

Position x: 457078.350 y: 3285179.650

Pixel (4607/10353) Value: -21.8677  
Band Number: 1

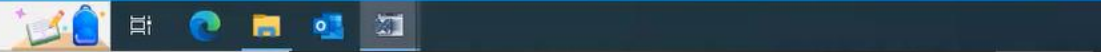
Get Position Push Position



N/A	Install	Start
N/A	Install	Start
Installed	Re-Install	Start
Installed	Re-Install	Start
N/A	Install	Start
N/A	Install	Start
N/A	Install	Start

File: C:\ReSe\_Sof  
 Web Download  from USB Stick or HD  
 0  
 Cancel Download

Proxy Settings Done





PARGE Parametric Orthorectification

File Edit DEM Auxiliary Control Special QC Processor Help

- Check Parameters
- Define Process Parameters
- Direct Processor
- Batch
- IGM Main Processor
- IGM Cube Rectification
- IGM Rotated Rectification
- IGM Inverse Processor
- Integrated Processing
- Process Band or RGB
- Direct Display
- Final Warping
- Mosaicking

- File Processor
- Hyspex Directory Processor
- Hyspex VS Dual Processor
- Hymap Directory Processor
- Nano Directory Processor
- Show Console

ReSe Software Installer, Version 3.1, Build 22

Decide which software base package to install in C:\ReSe\_Software\_Win64\

Atcor 23, Version 9.4	atcor_23_v94.zip (233 MB)	N/A	Install	Start
	atcor_4_v74.zip (159 MB)	N/A	Install	Start
	droacor_v20.zip (51 MB)	Installed	Re-Install	Start
	parge_v35.zip (55 MB)	Installed	Re-Install	Start
	modo_v4.zip (59 MB)	N/A	Install	Start
	modo_v52.zip (23 MB)	N/A	Install	Start
Modo 6.0	modo_v60.zip (40 MB)	N/A	Install	Start

... starting Parge Version 3.5  
use command: C:\ReSe\_Software\_Win64\IDL87\bin\bin\_x86\_64\dlrt.exe -vm="C:\ReSe\_Sof

Web Download  from USB Stick or HD

0

Cancel Download

Help Check Connection Proxy Settings Done

### Hyperspec NANO Directory Processing

Select Input Directory Name:

... select directory first

Select Bands (All Bands Selected) Sensor Total FOV: 0.00000000 Hyperspec Standard

Select DSM File: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_

Select Boresighting File:

GPS z: 0.000000 Sensor z: 0.000000 Z-Offset from DSM [m]: 0.000000 Estimate

Output Coordinate System:

UTM Standard Zone:  Default  User Defined Search  Hints

Projection: PROJCS["WGS\_1972\_UTM\_Zone\_10N",GEOGCS["GCS\_WGS\_1972",DATUM["D\_WGS\_1972",SPHEROID["WGS\_1972",6378137,0,0,0,0,0],PRIM["WGS\_1972",1,0,0,0,0,0],UNIT["Meter",1,0,0,0,0,0,0,0,0,0,0,0],AUTHORITY["EPSG",32610]],UNIT["Meter",1,0,0,0,0,0,0,0,0,0,0,0]]

Projection: WGS\_1984\_UTM\_Zone\_1N, EPSG: 32601, Datum: D\_WGS\_1984, Type: Transverse\_Mercator  
Datum: D\_WGS\_1984, Values: 0.000, 0.000, 0.000, 0.00e+000, 0.00e+000, 0.00e+000, 0.00e+000

Range in longitude-direction: min. 0.000 max. 0.000 Pixel Size [m]: 0.00000000

Range in latitude-direction: min. 0.000 max. 0.000 Guess

Resampling method: Fast Nearest Bi-Linear : good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing IGMs

Side outputs:  RGB JPG-Preview  Full Mosaic

Define Output directory:

Help Check Consistency Process Directory Mosaic Only Done

Recycle Bin MyIT IF-ABE-WKSI... MiniTool ShadowMaker IFAS Printers

Acrobat Reader Notepad++ Daluca

CloudCompare OceanView Min Partition

Convert To RINEX POSPac UAV 8.8 Daluca

Google Chrome Zoom Daluca samp

R 4.2.3 Microsoft Teams Daluca tissue samples.xlsx

IFAS Shares ReSe\_Software - Shortcut R 4.2.2 IfanView 64 Thumbnails IfanView 64 Microsoft Edge Error of allocation ... Plot\_shp\_buff... Spectral indices\_ENVI... Visual Studio Code py-radiometri...



P A R G E Parametric Orthorectification  
 File Edit DEM Auxiliary Control Special QC Processor Help  
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### Hyperspec NANO Directory Processing

Select Input Directory Name: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Found 100 raw files and imu\_gps in directory

Select Bands (All Bands Selected) Sensor Total FOV: 32.00000000 Hyperspec Applix

Select DSM File: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Select Boresighting File:

GPS z: 0.000000 Sensor z: 0.000000 Z-Offset from DSM [m]: 0.000000 Estimate

Output Coordinate System:

UTM Standard Zone:  Default  User Defined Search Hints

Projection: PROJCS["WGS\_1972\_UTM\_Zone\_10N",GEOGCS["GCS\_WGS\_1972",DATUM["D\_WGS\_1972",SPHEROID["WGS\_1972",6378137,0,0,0,0,0],PRIM["WGS\_1972",1,0,0,0,0,0],UNIT["Meter",1,0,0,0,0,0],AUTHORITY["EPSG",31466]],UNIT["Meter",1,0,0,0,0,0]]

Projection: WGS\_1984\_UTM\_Zone\_1N, EPSG: 32601, Datum: D\_WGS\_1984, Type: Transverse\_Mercator  
 Datum: D\_WGS\_1984, Values: 0.000, 0.000, 0.000, 0.00e+000, 0.00e+000, 0.00e+000, 0.00e+000

Range in longitude-direction: min: 456924 max: 457365 Pixel Size [m]: 0.00000000

Range in latitude-direction: min: 3284736 max: 3285293 Guess

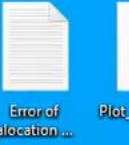
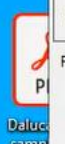
Resampling method: Fast Nearest Bi-Linear : good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing IGMs

Side outputs:  RGB JPG-Preview  Full Mosaic

Define Output directory: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Help Check Consistency Process Directory Mosaic Only Done



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Hyperspec NANO Directory Processing

Select Boresighting File

This PC > data1 (\\10.242.84.30 (Z:)) > SCICLOPS > Data > Imagery >

Organize New folder

Name	Date modified	Type	Size
Allband_Allimag			
BORESIGHT			
full			
Products			
100045_DL_564_dark_2022_12_06_19_24_43	12/11/2022 11:33 AM	File folder	
100046_DL_564_2022_12_06_19_25_02	12/17/2022 7:43 PM	File folder	
100047_DL_475_dark_2022_12_07_15_14_57	12/11/2022 11:48 AM	File folder	
100049_DL_475_2022_12_07_16_03_50	12/17/2022 11:54 PM	File folder	
100050_DL_453_dark_2022_12_07_16_49_08	12/11/2022 12:04 PM	File folder	
100051_DL_453_2022_12_07_16_49_23	12/11/2022 12:04 PM	File folder	
100052_DL_453_2022_12_07_16_50_37	12/18/2022 9:40 PM	File folder	
100053_DL_457_dark_2022_12_07_18_06_52	12/11/2022 12:19 PM	File folder	
100054_DL_457_2022_12_07_18_07_06	12/18/2022 10:08 PM	File folder	
100055_DL_435_dark_2022_12_07_18_58_11	12/11/2022 12:34 PM	File folder	
100056_DL_435_2022_12_07_18_58_28	12/19/2022 10:27 AM	File folder	
100060_DL_429_dark_2022_12_09_15_03_25	12/12/2022 3:50 PM	File folder	
100061_DL_429_2022_12_09_15_03_40	12/19/2022 2:31 PM	File folder	
100062_DL_408_dark_2022_12_09_15_49_34	12/12/2022 4:02 PM	File folder	
100063_DL_408_2022_12_09_15_49_51	12/19/2022 6:43 PM	File folder	
100064_DL_206_dark_2022_12_09_17_31_54	12/12/2022 4:02 PM	File folder	
100065_DL_206_2022_12_09_17_32_21	12/19/2022 11:32 PM	File folder	
100066_DL_185_dark_2022_12_09_18_20_13	12/12/2022 4:28 PM	File folder	
100067_DL_185_2022_12_09_18_20_27	12/20/2022 11:04 AM	File folder	
BORESIGHT	12/19/2022 9:41 AM	File folder	

File name:  \*.gcs

Open Cancel

Recycle Bin  
MyIT  
IF-ABE-WKSI...

Acrobat Reader  
Notepad++  
Daluca

CloudCompare  
OceanView  
Min Partition

Convert To RINEX  
PP UAV  
POS Pac UAV 8.8  
Daluca

Google Chrome  
Zoom  
Daluca samples

R 4.2.3  
Microsoft Teams  
Daluca tissue samples.xlsx

IFAS Shares  
ReSe\_Software - Shortcut  
R 4.2.2  
IrfanView 64 Thumbnails  
IrfanView 64  
Microsoft Edge  
Error of allocation ...  
Plot\_shp\_buff...  
Spectral indices\_ENVI...  
Visual Studio Code  
py-radiometri...

Type here to search

65°F Sunny 11:23 AM 3/29/2023

12:00 AM 05/16/2023

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Hyperspec NANO Directory Processing

Select Boresighting File

< > > This PC > data1 (\\10.242.84.30 (Z:)) > SCICLOPS > Data > Imagery > BORESIGHT

Organize > New folder

Name	Date modified	Type	Size
Singh_boresight2.gcs	12/19/2022 2:32 AM	GCS File	217 KB

File name: Singh\_boresight2.gcs

\*.gcs

Open Cancel



Type here to search

Type here to search









P A R G E Parametric Orthorectification

File Edit DEM Auxiliary Control Special QC Processor Help

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Hyperspec NANO Directory Processing

Select Input Directory Name: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Found 100 raw files and imu\_gps in directory

Select Bands (All Bands Selected) Sensor Total FOV: 32.00000000 Hyperspec Applinix

Select DSM File: ta\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\NAV\_DSM

Select Boresighting File: Z:\SCICLOPS\Data\Imagery\BORESIGHT\Singh\_boresight2.gcs

GPS z: 0.000000 Sensor z: 0.000000 Z-Offset from DSM [m]: 0.000000 Estimate

Output Coordinate System:

UTM Standard Zone:  Default  User Defined Search 17N

Projection: PROJCS["WGS\_1984\_UTM\_Zone\_17N",GEOGCS["GCS\_WGS\_1984",DATUM["D\_WGS\_1984",SPHEROID["WGS\_1984",6378137,0],UNIT["Meter",1],AXES["Geographic",1,2,3]]]]

Projection: WGS\_1984\_UTM\_Zone\_17N, EPSG: 32617, Datum: D\_WGS\_1984, Type: Transverse\_Mercator

Datum: D\_WGS\_1984, Values: 0.000, 0.000, 0.000, 0.00e+000, 0.00e+000, 0.00e+000, 0.00e+000

Range in longitude-direction: min: 456924 max: 457365 Pixel Size [m]: 0.03000000

Range in latitude-direction: min: 3284736 max: 3285293 Guess

Resampling method: Fast Nearest Bi-Linear : good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing files

Side outputs:  RGB JPG-Preview  Full Mosaic

Define Output directory: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10

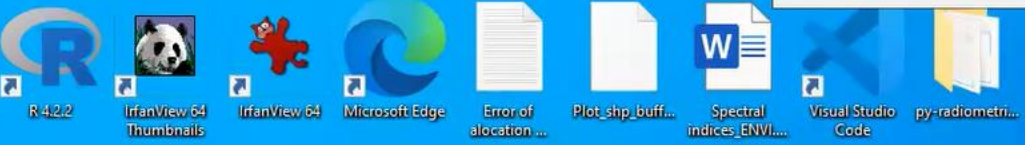
Help Check Consistency Process Directory Mosaic Only Do

Browse For Folder

Define Output Directory

- > 601\_800
- > 801\_1000
- > 1001\_1200
- > 1201\_1400
- > 1401\_1600
- > 1601\_1800
- > 1801\_2000
- > 2001\_2200
- > 2201\_2400
  - > 2201-2300
    - Allband\_allimages
    - Allimages\_all Type: File folder Date modified: 3/28/2023 10:04 PM
    - hdr
    - oneband\_allimages
- > Hastings2
- > Hastings2\_2
- > PCAP
- > 100036\_hastings1\_dark\_2022\_04\_13\_17\_27\_12

Make New Folder OK Cancel



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### Hyperspec NANO Directory Processing

Select Input Directory Name: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Found 100 raw files and imu\_gps in directory

Select Bands (All Bands Selected) Sensor Total FOV: 32.00000000 Hyperspec Applinix

Select DSM File: f:\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\NAV\_DSM

Select Boreighting File: Z:\SCICLOPS\Data\Imagery\BORESIGHT\Singh\_boresight2.gcs

GPS z: 0.000000 Sensor z: 0.000000 Z-Offset from DSM [m]: 0.000000 Estimate

Output Coordinate System:

UTM Standard Zone:  Default  User Defined Search 17N Hints

Projection: PROJCS["WGS 1984 UTM Zone 17N",GEOGCS["GCS WGS 1984",DATUM["D\_WGS 1984",SPHEROID["WGS 1984",6378137,0],PRIMEM["Greenwich",0],UNIT["Meter",1]],AXES["Latitude",1,"Longitude",2]],PROJCS["Transverse Mercator",FUSION["NONE"],UNIT["Meter",1]]]

Projection: WGS\_1984\_UTM\_Zone\_17N, EPSG: 32617, Datum: D\_WGS\_1984, Type: Transverse\_Mercator  
 Datum: D\_WGS\_1984, Values: 0.000, 0.000, 0.000, 0.00e+000, 0.00e+000, 0.00e+000, 0.00e+000

Range in longitude-direction: min: 456924 max: 457365 Pixel Size [m]: 0.03000000

Range in latitude-direction: min: 3284736 max: 3285293 Guess

Resampling method: Fast Nearest Bi-Linear : good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing IGMs

Side outputs:  RGB JPG-Preview  Full Mosaic

Define Output directory: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Help Check Consistency Process Directory Mosaic Only Done



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### Hyperspec NANO Directory Processing

Select Input Directory Name: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Found 100 raw files and imu\_gps in directory

Select Bands (All Bands Selected) Sensor Total FOV: 32.00000000 Hyperspec Applinix

Select DSM File: I:\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\NAV\_DSM

Select Boreighting File: Z:\SCICLOPS\Data\Imagery\BORESIGHT\Singh\_boresight2.gcs

GPS z: 0.000000 Sensor z: 0.000000 Z-Offset from DSM [m]: 0.000000 Estimate

Output Coordinate System:

UTM Standard Zone:  Default  User Defined Search 17N Hints

Projection: PROJCS["WGS\_1984\_UTM\_Zone\_17N",GEOGCS["GCS\_WGS\_1984",DATUM["D\_WGS\_1984",SPHEROID["WGS\_1984",6378137,0,0,0,0,0],PRIMEM["Greenwich",0,0],UNIT["Meter",1],AXES["Easting",0,"Northing",1]]]]

Projection: WGS\_1984\_UTM\_Zone\_17N, EPSG: 32617, Datum: D\_WGS\_1984, Type: Transverse\_Mercator  
 Datum: D\_WGS\_1984, Values: 0.000, 0.000, 0.000, 0.00e+000, 0.00e+000, 0.00e+000, 0.00e+000

Range in longitude-direction: min: 456924 max: 457365 Pixel Size [m]: 0.03000000

Range in latitude-direction: min: 3284736 max: 3285293 Guess

Resampling method: Fast Nearest Bi-Linear : good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing IGMs

Side outputs:  RGB JPG-Preview  Full Mosaic

Define Output directory: I:\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\Allband\_allimages\

Buttons: Help Check Consistency Process Directory Mosaic Only Done



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Hyperspec NANO Directory Processing

Select Input Directory Name: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Found 100 raw files and imu\_gps in directory

Select Bands (All Bands Selected) Sensor Total FOV: 32.00000000 Hyperspec Applinix

Select DSM File: IDL Alert Window

Data Consistency Check:  
GPS Range:  
X : 456944.69 - 457344.22  
Y : 3284756.4 - 3285272.7  
DSM Range:  
X : 456847.97 - 457435.02  
Y : 3284662.0 - 3285375.0

GPS Altitude Range:  
Z : -18.795146 - 31.305139

Check OK - no obvious problems found.

Projection: WGS\_1984

Datum: D\_WGS\_1984, Values: 0.000, 0.000, 0.000, 0.00e+000, 0.00e+000, 0.00e+000, 0.00e+000

Range in longitude-direction: min. 456924 max. 457365 Pixel Size [m]: 0.03000000

Range in latitude-direction: min. 3284736 max. 3285293

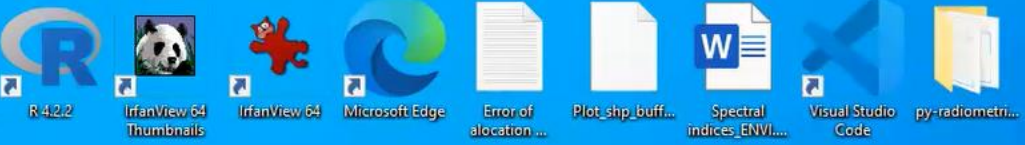
Resampling method: Fast Nearest Bi-Linear : good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing IGMs

Side outputs:  RGB JPG-Preview  Full Mosaic

Define Output directory: \ery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\Allband\_allimages\

Buttons: Help, Check Consistency, Process Directory, Mosaic Only, Done



Type here to search

Type here to search

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### Hyperspec NANO Directory Processing

Select Input Directory Name: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201

Found 100 raw files and imu\_gps in directory

Select Bands (All Bands Selected) Sensor Total FOV: 32.00000000 Hyperspec Applanix

Select DSM File: Z:\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\NAV\_DSM

Select Boreighting File: Z:\SCICLOPS\Data\Imagery\BORESIGHT\Singh\_boresight2.gcs

GPS z: 0.000000 Sensor z: 0.000000 Z-Offset from DSM [m]: 0.000000 Estimate

Output Coordinate System:

UTM Standard Zone:  Default  User Defined Search 17N Hints

Projection: PROJCS["WGS\_1984\_UTM\_Zone\_17N",GEOGCS["GCS\_WGS\_1984",DATUM["D\_WGS\_1984",SPHEROID["WGS\_1984",6378137,0,0,0,0,0],PRIMEM["Greenwich",0,0],UNIT["Meter",1],AXES["Geographic",0,1,2]]],UNIT["Meter",1]]

Projection: WGS\_1984\_UTM\_Zone\_17N, EPSG: 32617, Datum: D\_WGS\_1984, Type: Transverse\_Mercator  
 Datum: D\_WGS\_1984, Values: 0.000, 0.000, 0.000, 0.00e+000, 0.00e+000, 0.00e+000, 0.00e+000

Range in longitude-direction: min: 456924 max: 457365 Pixel Size [m]: 0.03000000

Range in latitude-direction: min: 3284736 max: 3285293 Guess

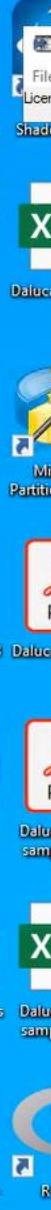
Resampling method: Fast Nearest Bi-Linear : good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing IGMs

Side outputs:  RGB JPG-Preview  Full Mosaic

Define Output directory: Z:\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\Allband\_allimages\

Help Check Consistency Process Directory Mosaic Only Done



PARGE Parametric Orthorectification  
File Edit DEM Auxiliary Control Special QC Processor Help  
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```

-----
PARGE
processing console
-----
2023-03-29T11:25:38 Nano Directory Processing Started
2023-03-29T11:25:38 Processing a set of 100raw files
2023-03-29T11:25:38 IMU GPS data: Z:\SCICLOPS\Data\imagery\2022_04_13_Ayush\100035_hastings2_2022
2023-03-29T11:25:38 Pixel size: 0.030000000
2023-03-29T11:25:38 Coordinate system: WGS_1984_UTM_Zone_32N
2023-03-29T11:25:39 Sensor FOV: 32.0000000
2023-03-29T11:25:39 IMU smoothing factor: 12
2023-03-29T11:25:39 Bore sight file: Z:\SCICLOPS\Data\imagery\BORESIGHT\Singh_boresight2.gcs
2023-03-29T11:25:40 DSM file: Z:\SCICLOPS\Data\imagery\2022_04_13_Ayush\100035_hastings2_2022_04
==== >>> Start working on file 1 out of 100
2023-03-29T11:25:44 Image: Z:\SCICLOPS\Data\imagery\2022_04_13_Ayush\100035_hastings2_2022_04_13_1
2023-03-29T11:25:45 Sync: Z:\SCICLOPS\Data\imagery\2022_04_13_Ayush\100035_hastings2_2022_04_13_1
2023-03-29T11:25:45 resetting PARGE session
2023-03-29T11:25:46 Reading parameters from Z:\SCICLOPS\Data\imagery\2022_04_13_Ayush\100035_hastings
2023-03-29T11:25:47 .. starting PARGE processing ..
2023-03-29T11:25:47 Sensor field of view: 32.0000000
2023-03-29T11:25:47 Parameter smoothing: 12
2023-03-29T11:25:47 Number of tiles: 1
2023-03-29T11:25:47 Altitude offset: no
2023-03-29T11:25:47 Resampling method: nearbilin

```

Help Show Log Clear Console Cancel Done

Resampling method: Fast Nearest Bi-Linear : good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing IGMs

Side outputs:  RGB JPG-Preview  Full Mosaic

Define Output directory: \ery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\Allband\_allimages\

Help Check Consistency Process Directory Mosaic Only Done





PARGE Parametric Orthorectification  
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```

... starting PARGE processing ...
Sensor field of view: 32.000000
Parameter smoothing: 12
Number of tiles: 1
Altitude offset: no
Resampling method: nearbilinear
importing UAV data from: Z:\SCICLOPS\Data\Imagery\2022_04_13_Ayush\100035_hastings
Initializing results for Z:\SCICLOPS\Data\Imagery\2022_04_13_Ayush\100035_hastings_2_20
Initialzing results for Z:\SCICLOPS\Data\Imagery\2022_04_13_Ayush\100035_hastings_2_20
Imported ENVI file information from Z:\SCICLOPS\Data\Imagery\2022_04_13_Ayush\100035_hastings_2_20
Imported external DEM file: Z:\SCICLOPS\Data\Imagery\2022_04_13_Ayush\100035_hastings_2_20
Reading external DEM file: Z:\SCICLOPS\Data\Imagery\2022_04_13_Ayush\100035_hastings_2_20
Imported attitude boresight angles from Z:\SCICLOPS\Data\Imagery\BORESIGHT\Singh_bore_sight_angles.txt
Output Pixel Size: 0.03000000
Processing Image Lines: 1-100
Processing Image Bands: 1-273
Status saved to: Z:\SCICLOPS\Data\Imagery\2022_04_13_Ayush\100035_hastings2_2022_04_13_16_12_10\DRACOR_2\2201_2400\NAV_DSM
Image Geometry Map Geocoding
=====
Now working on line #:
(maximum: 100)
80
-
Writing the IGM Output ("_igm")
Process completed!
ray tracing procedure finished for standard geometry
Z:\SCICLOPS\Data\Imagery\2022_04_13_Ayush\100035_hastings2_2022_04_13_16_12_10\DRACOR_2\2201_2400\NAV_DSM

```

Help Show Log Clear Console Cancel Done

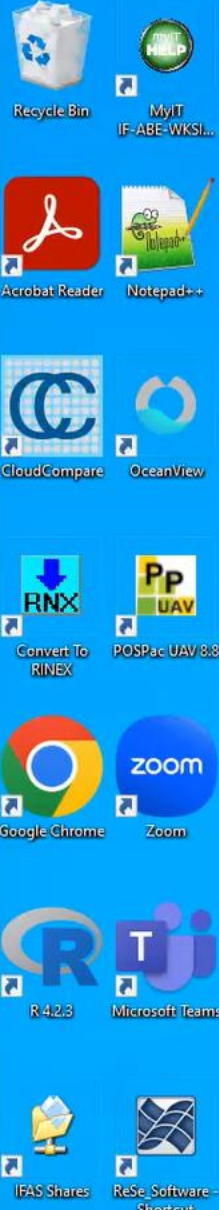
Resampling method: **Fast Nearest Bi-Linear** / good radiometry / modest geometry

Options:  Force processing of all scenes  Heading drift correction  Reuse existing IGMs

Side outputs:  RGB JPG-Preview  Full Mosaic

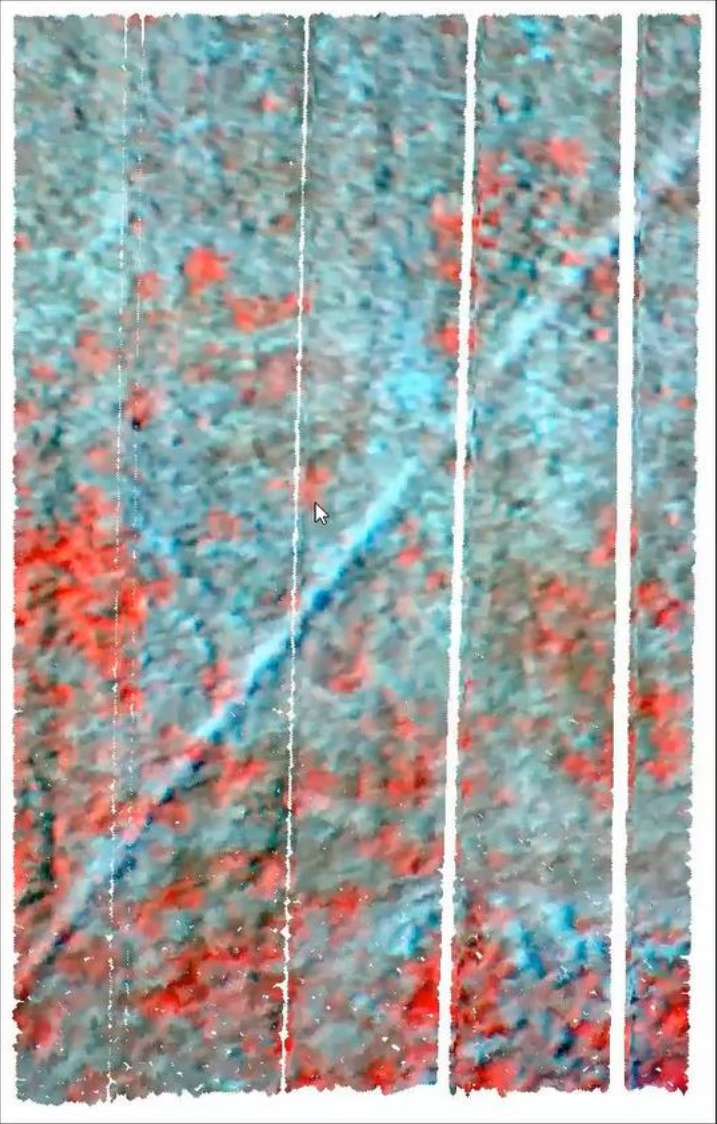
Output directory: Z:\SCICLOPS\Data\Imagery\2022\_04\_13\_Ayush\100035\_hastings2\_2022\_04\_13\_16\_12\_10\DRACOR\_2\2201\_2400\Allband\_allimages\

Help Check Consistency Process Directory Mosaic Only Done



Name	Date modified	Type	Size
DRACORraw_0_batch.txt	2/14/2023 1:22 PM	Text Document	18 KB
DRACORraw_0_geo.bsq	2/14/2023 1:23 PM	BSQ File	2,892 KB
DRACORraw_0_geo.gcs	2/14/2023 1:23 PM	GCS File	128 KB
DRACORraw_0_geo.hdr	2/14/2023 1:23 PM	HDR File	2 KB
DRACORraw_0_geo_igm.bsq	2/14/2023 1:42 PM	BSQ File	10,000 KB
DRACORraw_0_geo_igm.hdr	2/14/2023 1:23 PM	HDR File	1 KB
DRACORraw_0_geo_map.bsq	2/14/2023 1:23 PM	BSQ File	5,784 KB
DRACORraw_0_geo_map.hdr	2/14/2023 1:23 PM	HDR File	1 KB
DRACORraw_0_geo_rgb.jgw	2/14/2023 1:23 PM	JGW File	1 KB
DRACORraw_0_geo_rgb.jpg	2/14/2023 1:23 PM	JPG File	246 KB
DRACORraw_1000_batch.txt	2/14/2023 1:23 PM	Text Document	18 KB
DRACORraw_1000_geo.bsq	2/14/2023 1:23 PM	BSQ File	3,028 KB
DRACORraw_1000_geo.gcs	2/14/2023 1:23 PM	GCS File	128 KB
DRACORraw_1000_geo.hdr	2/14/2023 1:23 PM	HDR File	2 KB
DRACORraw_1000_geo_igm.bsq	2/14/2023 1:42 PM	BSQ File	10,000 KB
DRACORraw_1000_geo_igm.hdr	2/14/2023 1:23 PM	HDR File	1 KB
DRACORraw_1000_geo_map.bsq	2/14/2023 1:23 PM	BSQ File	6,056 KB
DRACORraw_1000_geo_map.hdr	2/14/2023 1:23 PM	HDR File	1 KB
DRACORraw_1000_geo_rgb.jgw	2/14/2023 1:23 PM	JGW File	1 KB
DRACORraw_1000_geo_rgb.jpg	2/14/2023 1:23 PM	JPG File	273 KB
DRACORraw_2000_batch.txt	2/14/2023 1:23 PM	Text Document	18 KB
DRACORraw_2000_geo.bsq	2/14/2023 1:24 PM	BSQ File	3,023 KB
DRACORraw_2000_geo.gcs	2/14/2023 1:24 PM	GCS File	128 KB
DRACORraw_2000_geo.hdr	2/14/2023 1:24 PM	HDR File	2 KB
DRACORraw_2000_geo_igm.bsq	2/14/2023 1:43 PM	BSQ File	10,000 KB
DRACORraw_2000_geo_igm.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_2000_geo_map.bsq	2/14/2023 1:24 PM	BSQ File	6,045 KB
DRACORraw_2000_geo_map.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_2000_geo_rgb.jgw	2/14/2023 1:24 PM	JGW File	1 KB
DRACORraw_2000_geo_rgb.jpg	2/14/2023 1:24 PM	JPG File	325 KB
DRACORraw_3000_batch.txt	2/14/2023 1:24 PM	Text Document	18 KB
DRACORraw_3000_geo.bsq	2/14/2023 1:24 PM	BSQ File	1,090 KB
DRACORraw_3000_geo.gcs	2/14/2023 1:24 PM	GCS File	80 KB
DRACORraw_3000_geo.hdr	2/14/2023 1:24 PM	HDR File	2 KB
DRACORraw_3000_geo_igm.bsq	2/14/2023 1:43 PM	BSQ File	4,400 KB
DRACORraw_3000_geo_igm.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_3000_geo_map.bsq	2/14/2023 1:24 PM	BSQ File	2,180 KB
DRACORraw_3000_geo_map.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_3000_geo_rgb.jgw	2/14/2023 1:24 PM	JGW File	1 KB
DRACORraw_3000_geo_rgb.jpg	2/14/2023 1:24 PM	JPG File	124 KB
DRACORraw_3440_batch.txt	2/14/2023 1:24 PM	Text Document	18 KB
DRACORraw_3440_geo.gcs	2/14/2023 1:24 PM	GCS File	126 KB
procdir2023-02-14T18.log	2/14/2023 1:24 PM	Text Document	35 KB

Who can see your viewing activity? X



Name	Date modified	Type	Size
DRACORraw_0_batch.txt	2/14/2023 1:22 PM	Text Document	18 KB
DRACORraw_0_geo.bsq	2/14/2023 1:23 PM	BSQ File	2,892 KB
DRACORraw_0_geo.gcs	2/14/2023 1:23 PM	GCS File	128 KB
DRACORraw_0_geo.hdr	2/14/2023 1:23 PM	HDR File	2 KB
DRACORraw_0_geo_igm.bsq	2/14/2023 1:42 PM	BSQ File	10,000 KB
DRACORraw_0_geo_igm.hdr	2/14/2023 1:23 PM	HDR File	1 KB
DRACORraw_0_geo_map.bsq	2/14/2023 1:23 PM	BSQ File	5,784 KB
DRACORraw_0_geo_map.hdr	2/14/2023 1:23 PM	HDR File	1 KB
DRACORraw_0_geo_rgb.jgw	2/14/2023 1:23 PM	JGW File	1 KB
DRACORraw_0_geo_rgb.jpg	2/14/2023 1:23 PM	JPG File	246 KB
DRACORraw_1000_batch.txt	2/14/2023 1:24 PM	Text Document	18 KB
DRACORraw_1000_geo.bsq	2/14/2023 1:24 PM	BSQ File	2,180 KB
DRACORraw_1000_geo.gcs	2/14/2023 1:24 PM	GCS File	128 KB
DRACORraw_1000_geo.hdr	2/14/2023 1:24 PM	HDR File	2 KB
DRACORraw_1000_geo_igm.bsq	2/14/2023 1:24 PM	BSQ File	10,000 KB
DRACORraw_1000_geo_igm.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_1000_geo_map.bsq	2/14/2023 1:24 PM	BSQ File	5,784 KB
DRACORraw_1000_geo_map.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_1000_geo_rgb.jgw	2/14/2023 1:24 PM	JGW File	1 KB
DRACORraw_1000_geo_rgb.jpg	2/14/2023 1:24 PM	JPG File	246 KB
DRACORraw_2000_batch.txt	2/14/2023 1:24 PM	Text Document	18 KB
DRACORraw_2000_geo.bsq	2/14/2023 1:24 PM	BSQ File	3,966 KB
DRACORraw_2000_geo.gcs	2/14/2023 1:24 PM	GCS File	128 KB
DRACORraw_2000_geo.hdr	2/14/2023 1:24 PM	HDR File	2 KB
DRACORraw_2000_geo_igm.bsq	2/14/2023 1:24 PM	BSQ File	10,000 KB
DRACORraw_2000_geo_igm.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_2000_geo_map.bsq	2/14/2023 1:24 PM	BSQ File	5,784 KB
DRACORraw_2000_geo_map.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_2000_geo_rgb.jgw	2/14/2023 1:24 PM	JGW File	1 KB
DRACORraw_2000_geo_rgb.jpg	2/14/2023 1:24 PM	JPG File	246 KB
DRACORraw_3000_batch.txt	2/14/2023 1:24 PM	Text Document	18 KB
DRACORraw_3000_geo.bsq	2/14/2023 1:24 PM	BSQ File	2,180 KB
DRACORraw_3000_geo.gcs	2/14/2023 1:24 PM	GCS File	128 KB
DRACORraw_3000_geo.hdr	2/14/2023 1:24 PM	HDR File	2 KB
DRACORraw_3000_geo_igm.bsq	2/14/2023 1:24 PM	BSQ File	10,000 KB
DRACORraw_3000_geo_igm.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_3000_geo_map.bsq	2/14/2023 1:24 PM	BSQ File	5,784 KB
DRACORraw_3000_geo_map.hdr	2/14/2023 1:24 PM	HDR File	1 KB
DRACORraw_3000_geo_rgb.jgw	2/14/2023 1:24 PM	JGW File	1 KB
DRACORraw_3000_geo_rgb.jpg	2/14/2023 1:24 PM	JPG File	246 KB
DRACORraw_3440_batch.txt	2/14/2023 1:24 PM	Text Document	18 KB
DRACORraw_3440_geo.bsq	2/14/2023 1:24 PM	BSQ File	3,966 KB
DRACORraw_3440_geo.gcs	2/14/2023 1:24 PM	GCS File	128 KB
DRACORraw_3440_geo.hdr	2/14/2023 1:24 PM	HDR File	2 KB

Get the Information You Need from Imagery.

ENVI Version 5.6

```

PARGE Parametric Orthorectification
File Edit DEM Auxiliary Control Spec...
Licensed for University of Florida

2023-02-14T13:45:09 importing UAV da
2023-02-14T13:45:09 Initializing results fr
2023-02-14T13:45:09 Initialized results fr
2023-02-14T13:45:10 Imported ENVI file
2023-02-14T13:45:10 Initialized results fr
2023-02-14T13:45:13 created pushbroo
2023-02-14T13:45:14 Imported UAV Da
2023-02-14T13:45:14 Reading external
2023-02-14T13:45:14 Imported ENVI De
2023-02-14T13:45:15 Imported attitude I
2023-02-14T13:45:15 Output Pixel Size:
2023-02-14T13:45:15 Processing Image
2023-02-14T13:45:15 Processing Image
2023-02-14T13:45:16 Status saved to Z
2023-02-14T13:45:17 Image Geometry I
2023-02-14T13:45:17 Now working on li
2023-02-14T13:45:17 (maximum: 1000)
980
2023-02-14T13:45:31 Writing the IGM Output ("_igm)
2023-02-14T13:45:31 Process completed!
2023-02-14T13:45:33 ray tracing procedure finished for standard geometry
2023-02-14T13:45:33 Z:\SCICLOPS\Data\Imagery\2022_08_04_Anju\100014_AGP_Citra_2022_08_04_13_46_03
2023-02-14T13:45:33 Creating Mapping File
2023-02-14T13:45:33 Z:\SCICLOPS\Data\Imagery\2022_08_04_Anju\100014_AGP_Citra_2022_08_04_13_46_03
2023-02-14T13:45:33 working on tile
2023-02-14T13:45:34 (maximum: 1)
  
```

# 4. Stitching images

- File
- Edit
- Display
- Placemarks
- Views
- Server
- Help
- Open... Ctrl+O
- Open As >
- Open Recent >
- Open World Data >
- Open Remote Dataset... >
- Remote Connection Manager Ctrl+W
- New >
- ENVI Session >
- Save Ctrl+S
- Save As >
- Chip View to >
- Export View to >
- Export Selected Layer to TIFF...
- Data Manager F4
- Close All Files Ctrl+Del
- Preferences
- Shortcut Manager
- Exit Ctrl+Q

Who can see your viewing activity? X

0°

No stretch

20 10 50

Open Who can see your viewing activity? X

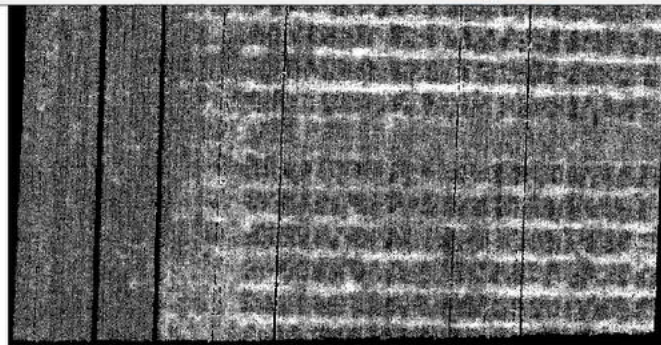
< > << >> << Data > Imagery > 2022\_08\_04\_Anju > 100014\_AGP\_Citra\_2022\_08\_04\_13\_46\_03 > DRACOR > ONEBAND\_ALLIMAGE Search ONEBAND\_ALLIMAGE

Organize New folder

Name	Date modified	Type	Size
DRACORraw_8880_geo.hdr	2/14/2023 1:28 PM	HDR File	2 KB
DRACORraw_8880_geo_igm.bsq	2/14/2023 1:48 PM	BSQ File	10,000 KB
DRACORraw_8880_geo_igm.hdr	2/14/2023 1:28 PM	HDR File	1 KB
DRACORraw_8880_geo_map.bsq	2/14/2023 1:28 PM	BSQ File	8,246 KB
DRACORraw_8880_geo_map.hdr	2/14/2023 1:28 PM	HDR File	1 KB
DRACORraw_8880_geo_rgb.jgw	2/14/2023 1:28 PM	JGW File	1 KB
DRACORraw_8880_geo_rgb.jpg	2/14/2023 1:28 PM	JPG File	370 KB
DRACORraw_9880_batch.txt	2/14/2023 1:29 PM	Text Document	18 KB
DRACORraw_9880_geo.bsq	2/14/2023 1:29 PM	BSQ File	1,748 KB
DRACORraw_9880_geo.gcs	2/14/2023 1:29 PM	GCS File	80 KB
DRACORraw_9880_geo.hdr	2/14/2023 1:29 PM	HDR File	2 KB
DRACORraw_9880_geo_igm.bsq	2/14/2023 1:48 PM	BSQ File	4,400 KB
DRACORraw_9880_geo_igm.hdr	2/14/2023 1:29 PM	HDR File	1 KB
DRACORraw_9880_geo_map.bsq	2/14/2023 1:29 PM	BSQ File	3,496 KB
DRACORraw_9880_geo_map.hdr	2/14/2023 1:29 PM	HDR File	1 KB
DRACORraw_9880_geo_rgb.jgw	2/14/2023 1:29 PM	JGW File	1 KB
DRACORraw_9880_geo_rgb.jpg	2/14/2023 1:29 PM	JPG File	138 KB
mosaic_nano2023-02-14T18.bsq	2/14/2023 1:29 PM	BSQ File	115,674 KB
mosaic_nano2023-02-14T18.hdr	2/14/2023 1:29 PM	HDR File	2 KB
procdir2023-02-14T18.log	2/14/2023 1:29 PM	Text Document	94 KB

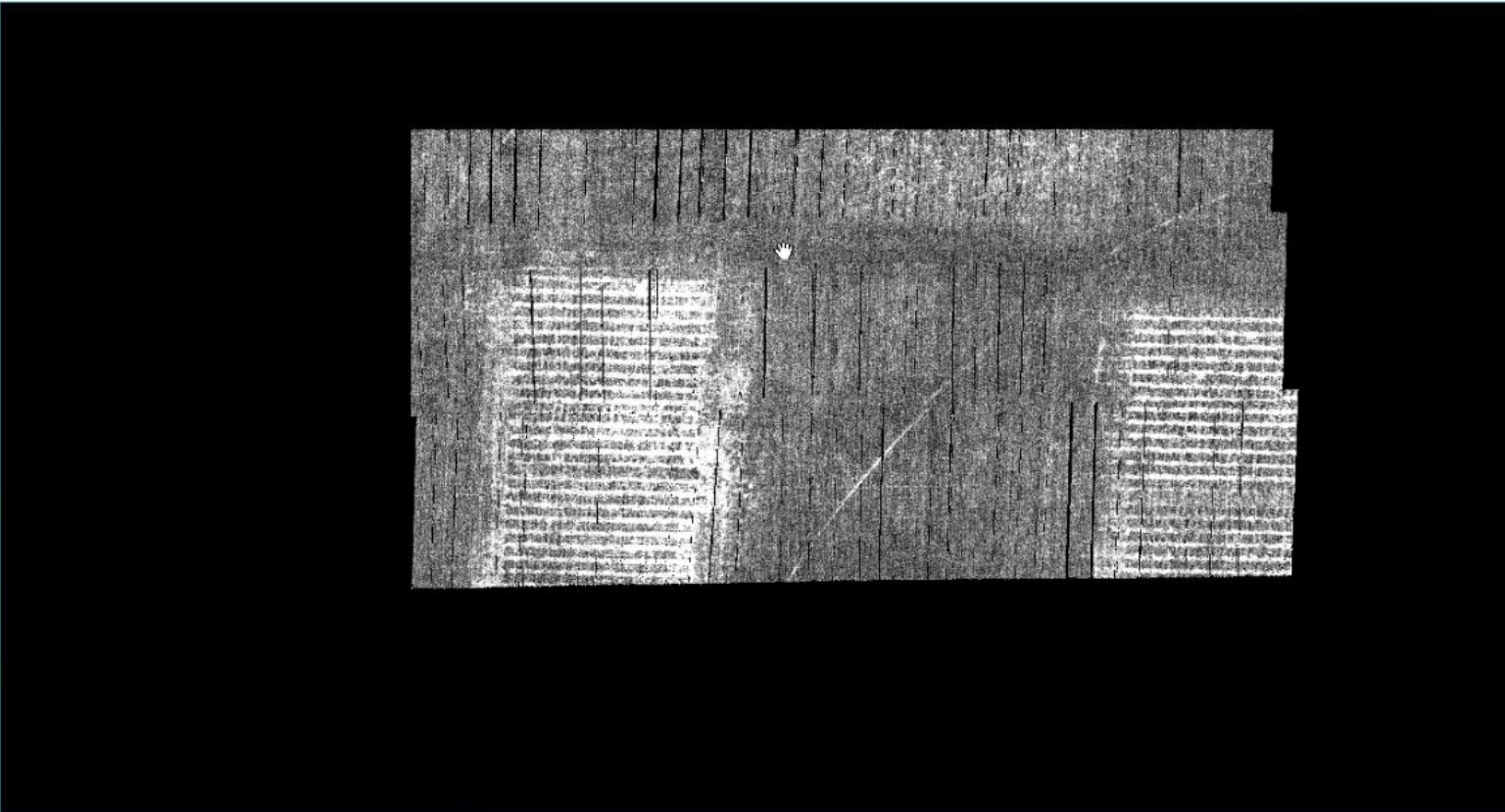
File name: mosaic\_nano2023-02-14T18.bsq All Files (\*.\*)

Open Cancel



Layer Manager

- View
  - Overview
  - View Swipe
  - mosaic\_nano2023-02-14T18.bsq
  - DRACORaw\_6880\_geo.bsq
  - DRACORaw\_6440\_geo.bsq
  - DRACORaw\_5440\_geo.bsq
  - DRACORaw\_4440\_geo.bsq
  - DRACORaw\_3440\_geo.bsq
  - DRACORaw\_3000\_geo.bsq
  - DRACORaw\_2000\_geo.bsq
  - DRACORaw\_1000\_geo.bsq
  - DRACORaw\_0\_geo.bsq

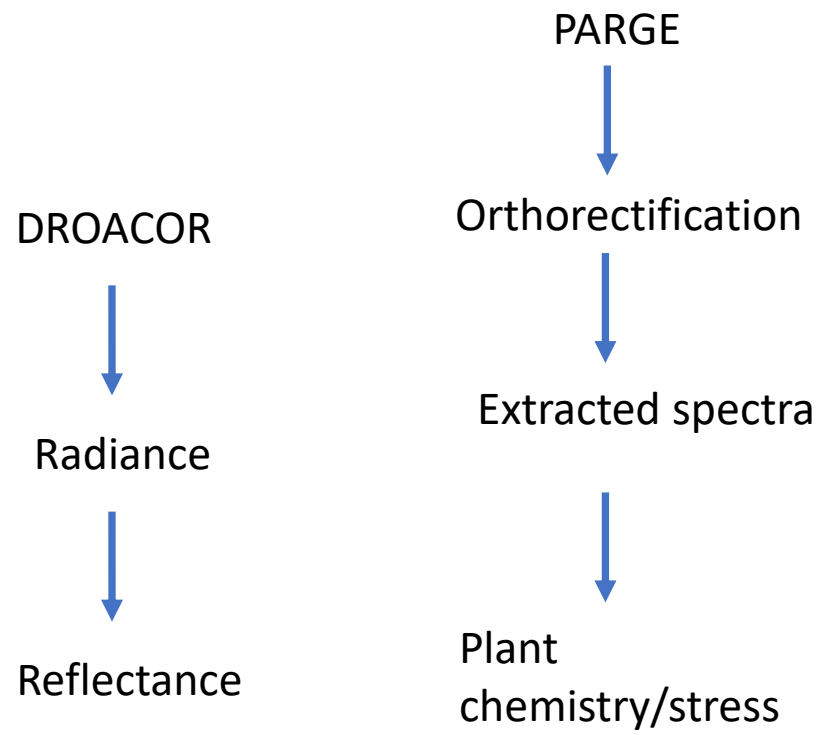






5.  
Generating  
reflectance  
/Spectra

6.  
Statistical  
analysis



# Thank You!

## Project team

Dr. Anju Biswas, past PI

Dr. Esteban Rios, current PI

Dr. Aditya Singh, Co-PI

## Forage Breeding and Genetics Lab

## Collaborator

Ayush Sharma

## Funding Source

AG2PI



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