

Advanced ways to find and retrieve data in the LTA

There are some useful ways to find and retrieve your data in the LTA that might not be immediately obvious. This page explains some of the more advanced options you have.

Queries

- You can use colons in numeric queries, to select ranges. This will for example give all observations and pipelines that have a SAS/Observation ID in the range from 432000 to 432190:

| | |
|--------------------------------|----------------------------------------------------|
| Observation Id | 432000:432190 |
| Observing or Pipeline Run Date | From 0000-00-00 00:00:00 To 0000-00-00 00:00:00 |
| Project | any |
| Maximum Number of Rows | |

In textual entries, wildcards can be used.

| | |
|-------------|-------|
| Target Name | 3c19* |
|-------------|-------|

- You can put a list of SAS/Observation IDs in the query:

| | |
|----------------|----------------------------------------------------|
| Observation Id | 146112,147775,151778 |
| Observing Date | From 0000-00-00 00:00:00 To 0000-00-00 00:00:00 |

Viewing data

When you are looking at the results of a query you might see something like this:

| Number Of Correlated DataProducts |
|-----------------------------------------|
| 0 / 488 |

This means that the observation is known in the LTA, it knows what data was produced, the produced data was not archived, but further processing happened on the raw data and the results of some of those pipelines were archived. If you click on the zero, you will see something like this:

| # | <input type="checkbox"/> | DataProduct Identifier | SubArray Pointing Identifier | Subband | Stations | Observations | Pipeline | Derived DataProducts |
|----|--------------------------|------------------------|------------------------------|---------|----------|--------------|---------------------|----------------------|
| 1 | | 7260485 | 293855 | 479 | show | 1 | | AveragingPipeline |
| 2 | | 7260483 | 293855 | 477 | show | 1 | | AveragingPipeline |
| 3 | | 7260488 | 293855 | 482 | show | 1 | back to observation | AveragingPipeline |
| 4 | | 7260489 | 293855 | 483 | show | 1 | | AveragingPipeline |
| 5 | | 7260492 | 293855 | 486 | show | 1 | | AveragingPipeline |
| 6 | | 7260490 | 293855 | 484 | show | 1 | | AveragingPipeline |
| 7 | Can not be downloaded | 7260493 | 293855 | 487 | show | 1 | | AveragingPipeline |
| 8 | | 7260486 | 293855 | 480 | show | 1 | | AveragingPipeline |
| 9 | | 7260487 | 293855 | 481 | show | 1 | To pipeline | AveragingPipeline |
| 10 | | 7260482 | 293855 | 476 | show | 1 | | AveragingPipeline |
| 11 | | 7260491 | 293855 | 485 | show | 1 | | AveragingPipeline |
| 12 | | 7260484 | 293855 | 478 | show | 1 | | AveragingPipeline |
| 13 | | 7260436 | 293854 | 430 | show | 1 | | AveragingPipeline |

This allows you to navigate from a pipeline back to the original observation, or from the observation to any pipelines that have run on the raw data.

Retrieving data

- You can retrieve data on the Observation and Pipeline level, you don't have to select all files individually.

| # | <input type="checkbox"/> | Observation Id | Observing Mode | Antenna Set | Instrun Filte |
|----|-------------------------------------|----------------|----------------|----------------|---------------|
| 1 | <input checked="" type="checkbox"/> | 146448 | Interferometer | HBA Dual Inner | 110-190 |
| 2 | <input type="checkbox"/> | 146447 | Interferometer | HBA Dual Inner | 110-190 |
| 3 | <input checked="" type="checkbox"/> | 146446 | Interferometer | HBA Dual Inner | 110-190 |
| 4 | <input type="checkbox"/> | 146445 | Interferometer | HBA Dual Inner | 110-190 |
| 5 | <input checked="" type="checkbox"/> | 146444 | Interferometer | HBA Dual Inner | 110-190 |
| 6 | <input checked="" type="checkbox"/> | 146443 | Interferometer | HBA Dual Inner | 110-190 |
| 7 | <input type="checkbox"/> | 146442 | Interferometer | HBA Dual Inner | 110-190 |
| 8 | <input checked="" type="checkbox"/> | 146441 | Interferometer | HBA Dual Inner | 110-190 |
| 9 | <input checked="" type="checkbox"/> | 146456 | Interferometer | HBA Dual Inner | 110-190 |
| 10 | <input checked="" type="checkbox"/> | 146455 | Interferometer | HBA Dual Inner | 110-190 |
| 11 | <input type="checkbox"/> | 146454 | Interferometer | HBA Dual Inner | 110-190 |
| 12 | <input type="checkbox"/> | 146453 | Interferometer | HBA Dual Inner | 110-190 |
| 13 | <input type="checkbox"/> | 146452 | Interferometer | HBA Dual Inner | 110-190 |

- If you have a query with more than 1000 results, you can open the multiple pages each in a separate tab/window.

Observation 1001 to 1100 (showing 100 of total 1156) ▾

[edit columns](#) | [stage selected](#)

[first](#) | [previous](#) | ... | [2](#) | [3](#) | [4](#) | [5](#) | [6](#) | [7](#) | [8](#) | [9](#) | [10](#) | [11](#) | [12](#) | [next](#) | [last](#)

| r Of SubArray | Start Time | Duration | Nr Stations | Nr Stations |
|---------------|------------|----------|-------------|-------------|
|---------------|------------|----------|-------------|-------------|

- With the small triangle next to a list, you can fold or unfold the list to get a better overview.

Folded entries

Observation 1 to 100 (showing 100 of total 1156) ▲

Averaging Pipeline 1 to 100 (showing 100 of total 4060) ▲

Calibration Pipeline (total 30) ▲

Imaging Pipeline (total 0) ▲

UnspecifiedProcess 1 to 100 (showing 100 of total 125) ▲

Unfolded entries

Calibration Pipeline (Total 30) -

48 columns - skip column

| # | Pipeline Name | Pipeline Version | Process Identifier | Observation ID | Start Time | Duration (s) | End Time | Strategy Name | Strategy Description | Frequency Integration | Time Integration | Flag Rate Correction | Systemic Offset | Scintillation | Number Of Instrument Reads | Number Of Correlated Readouts | Source Readout |
|----|---------------------|------------------|--------------------|----------------|---------------------|--------------|---------------------|-----------------------------------|----------------------------|-----------------------|------------------|----------------------|-----------------|---------------|----------------------------|-------------------------------|----------------|
| 1 | PIPE_CALIBRATION_V1 | 1.0.0 | 100001 | 100001 | 2023-01-01 12:00:00 | 0.5 | 2023-01-01 12:00:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 2 | PIPE_CALIBRATION_V1 | 1.0.0 | 100002 | 100002 | 2023-01-01 12:00:30 | 0.5 | 2023-01-01 12:01:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 3 | PIPE_CALIBRATION_V1 | 1.0.0 | 100003 | 100003 | 2023-01-01 12:01:00 | 0.5 | 2023-01-01 12:01:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 4 | PIPE_CALIBRATION_V1 | 1.0.0 | 100004 | 100004 | 2023-01-01 12:01:30 | 0.5 | 2023-01-01 12:02:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 5 | PIPE_CALIBRATION_V1 | 1.0.0 | 100005 | 100005 | 2023-01-01 12:02:00 | 0.5 | 2023-01-01 12:02:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 6 | PIPE_CALIBRATION_V1 | 1.0.0 | 100006 | 100006 | 2023-01-01 12:02:30 | 0.5 | 2023-01-01 12:03:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 7 | PIPE_CALIBRATION_V1 | 1.0.0 | 100007 | 100007 | 2023-01-01 12:03:00 | 0.5 | 2023-01-01 12:03:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 8 | PIPE_CALIBRATION_V1 | 1.0.0 | 100008 | 100008 | 2023-01-01 12:03:30 | 0.5 | 2023-01-01 12:04:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 9 | PIPE_CALIBRATION_V1 | 1.0.0 | 100009 | 100009 | 2023-01-01 12:04:00 | 0.5 | 2023-01-01 12:04:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 10 | PIPE_CALIBRATION_V1 | 1.0.0 | 100010 | 100010 | 2023-01-01 12:04:30 | 0.5 | 2023-01-01 12:05:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 11 | PIPE_CALIBRATION_V1 | 1.0.0 | 100011 | 100011 | 2023-01-01 12:05:00 | 0.5 | 2023-01-01 12:05:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 12 | PIPE_CALIBRATION_V1 | 1.0.0 | 100012 | 100012 | 2023-01-01 12:05:30 | 0.5 | 2023-01-01 12:06:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 13 | PIPE_CALIBRATION_V1 | 1.0.0 | 100013 | 100013 | 2023-01-01 12:06:00 | 0.5 | 2023-01-01 12:06:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 14 | PIPE_CALIBRATION_V1 | 1.0.0 | 100014 | 100014 | 2023-01-01 12:06:30 | 0.5 | 2023-01-01 12:07:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 15 | PIPE_CALIBRATION_V1 | 1.0.0 | 100015 | 100015 | 2023-01-01 12:07:00 | 0.5 | 2023-01-01 12:07:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 16 | PIPE_CALIBRATION_V1 | 1.0.0 | 100016 | 100016 | 2023-01-01 12:07:30 | 0.5 | 2023-01-01 12:08:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 17 | PIPE_CALIBRATION_V1 | 1.0.0 | 100017 | 100017 | 2023-01-01 12:08:00 | 0.5 | 2023-01-01 12:08:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 18 | PIPE_CALIBRATION_V1 | 1.0.0 | 100018 | 100018 | 2023-01-01 12:08:30 | 0.5 | 2023-01-01 12:09:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 19 | PIPE_CALIBRATION_V1 | 1.0.0 | 100019 | 100019 | 2023-01-01 12:09:00 | 0.5 | 2023-01-01 12:09:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 20 | PIPE_CALIBRATION_V1 | 1.0.0 | 100020 | 100020 | 2023-01-01 12:09:30 | 0.5 | 2023-01-01 12:10:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 21 | PIPE_CALIBRATION_V1 | 1.0.0 | 100021 | 100021 | 2023-01-01 12:10:00 | 0.5 | 2023-01-01 12:10:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 22 | PIPE_CALIBRATION_V1 | 1.0.0 | 100022 | 100022 | 2023-01-01 12:10:30 | 0.5 | 2023-01-01 12:11:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 23 | PIPE_CALIBRATION_V1 | 1.0.0 | 100023 | 100023 | 2023-01-01 12:11:00 | 0.5 | 2023-01-01 12:11:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 24 | PIPE_CALIBRATION_V1 | 1.0.0 | 100024 | 100024 | 2023-01-01 12:11:30 | 0.5 | 2023-01-01 12:12:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 25 | PIPE_CALIBRATION_V1 | 1.0.0 | 100025 | 100025 | 2023-01-01 12:12:00 | 0.5 | 2023-01-01 12:12:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 26 | PIPE_CALIBRATION_V1 | 1.0.0 | 100026 | 100026 | 2023-01-01 12:12:30 | 0.5 | 2023-01-01 12:13:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 27 | PIPE_CALIBRATION_V1 | 1.0.0 | 100027 | 100027 | 2023-01-01 12:13:00 | 0.5 | 2023-01-01 12:13:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 28 | PIPE_CALIBRATION_V1 | 1.0.0 | 100028 | 100028 | 2023-01-01 12:13:30 | 0.5 | 2023-01-01 12:14:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 29 | PIPE_CALIBRATION_V1 | 1.0.0 | 100029 | 100029 | 2023-01-01 12:14:00 | 0.5 | 2023-01-01 12:14:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 30 | PIPE_CALIBRATION_V1 | 1.0.0 | 100030 | 100030 | 2023-01-01 12:14:30 | 0.5 | 2023-01-01 12:15:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 31 | PIPE_CALIBRATION_V1 | 1.0.0 | 100031 | 100031 | 2023-01-01 12:15:00 | 0.5 | 2023-01-01 12:15:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 32 | PIPE_CALIBRATION_V1 | 1.0.0 | 100032 | 100032 | 2023-01-01 12:15:30 | 0.5 | 2023-01-01 12:16:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 33 | PIPE_CALIBRATION_V1 | 1.0.0 | 100033 | 100033 | 2023-01-01 12:16:00 | 0.5 | 2023-01-01 12:16:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 34 | PIPE_CALIBRATION_V1 | 1.0.0 | 100034 | 100034 | 2023-01-01 12:16:30 | 0.5 | 2023-01-01 12:17:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 35 | PIPE_CALIBRATION_V1 | 1.0.0 | 100035 | 100035 | 2023-01-01 12:17:00 | 0.5 | 2023-01-01 12:17:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 36 | PIPE_CALIBRATION_V1 | 1.0.0 | 100036 | 100036 | 2023-01-01 12:17:30 | 0.5 | 2023-01-01 12:18:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 37 | PIPE_CALIBRATION_V1 | 1.0.0 | 100037 | 100037 | 2023-01-01 12:18:00 | 0.5 | 2023-01-01 12:18:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 38 | PIPE_CALIBRATION_V1 | 1.0.0 | 100038 | 100038 | 2023-01-01 12:18:30 | 0.5 | 2023-01-01 12:19:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 39 | PIPE_CALIBRATION_V1 | 1.0.0 | 100039 | 100039 | 2023-01-01 12:19:00 | 0.5 | 2023-01-01 12:19:30 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |
| 40 | PIPE_CALIBRATION_V1 | 1.0.0 | 100040 | 100040 | 2023-01-01 12:19:30 | 0.5 | 2023-01-01 12:20:00 | Preprocessing Pipeline (see desc) | Preprocessing with default | 10 | 5 | 0 | 0 | 40 | 40 | 4000 | 4000 |

Imaging Pipeline (Total 8) -

UnspecifiedProcess 5 to 100 (skipping 100 of total 120) -

48 columns - skip column

Rep | process | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

DBView

There is a server that gives the option to run your own queries on the database

<http://lofar-dbview.target.rug.nl/>

A useful query might be this one, that gives you all files for a certain Obs Id (SAS VIC tree ID).

```
SELECT fo.URI, dp."dataProductType", dp."dataProductIdentifier",
       dp."processIdentifier"
FROM AWOPER."DataProduct+" dp,
      AWOPER.FileObject fo,
      AWOPER."Process+" pr
WHERE dp."processIdentifier" = pr."processIdentifier"
      AND pr."observationId" = '123456'
      AND fo.data_object = dp."object_id"
```

```
AND dp."isValid" > 0
```

In this '123456' should be replaced with the Obs Id of an Observation/Pipeline you're looking for.

AstroWise Python Interface

There is also a python interface to the LTA. With this, you can also script some advanced queries. To have this working, you first need to install the [LTA client](#) in your machine. Once you have installed the client, set up your user name and password. These are the same as for MoM. Remember that this is just a different interface to the LTA catalogue: you will need the same credentials as for the web interface.

In your home directory, add the following to the file .awe/Environment.cfg

```
database_user : <your username>
database_password : <your password>
```

Finally, if you are using your own laptop, your hostname may cause an error, if it does not contain a full domain. In this case, check your /etc/hosts file. You should find a line that looks like this

```
127.0.0.1 localhost
```

Change that line into

```
127.0.0.1 localhost <your_host_name>
```

Now, you may still see some warnings, but the following script will print out all observations on a certain patch of the sky:

```
# python code
from pprint import pprint
from common.database.Context import context
from awlofar.main.aweimports import Observation, Pointing, SubArrayPointing
result = {}
for project in sorted(context.get_projects()) :
    print "Project %(project)s" % vars()
    ok = context.set_project(project)
    # do your query
    obs_ids = set()
    query = (Pointing.rightAscension > 95) & \
            (Pointing.rightAscension < 105) & \
            (Pointing.declination > 20) & \
            (Pointing.declination < 30)
    print "Total Pointings %d" % len(query)
    for pointing in query :
        print "Pointing found RA %f DEC %f" % (pointing.rightAscension,
        pointing.declination)
        query_subarr = SubArrayPointing.pointing == pointing
        for subarr in query_subarr:
```

```
        query_obs = Observation.subArrayPointings.contains(subarr)
        for obs in query_obs :
            obs_ids.add(obs.observationId)
    result[project] = sorted(list(obs_ids))
    print result[project]

pprint(result)
```

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