**The standard detection query results include the following files:**

***GlatosProject*\_detectionsWithLocs\_*yyyymmdd*\_######.csv** is text file (comma separated values format) with detections of tags associated with this project from all detections in the GLATOS database, as of today. Field definitions follow those in the GLATOS workbook. Note that some fields (e.g., fish length, weight, sex) will be blank if those data were not included in your GLATOS workbook. All timestamps are in UTC. Keep in mind that false codes can be generated by tag collisions and there are many known cases of false positives in the GLATOS database. The last column, min\_lag was recently added to facilitate false-positive filtering using the short-interval filter described by Pincock (2012 - Vemco technical note). min\_lag is defined as the minimum difference in time between each detection and the next closest detection of that same transmitter on the same receiver. min\_lag is blank if a tag id code was only detected once on a given receiver. **NOTE:**We have recently added two new columns to this data set: **'glatos\_project\_transmitter**' gives the project code associated with the tagged fish and '**glatos\_project\_receiver**' gives the project code for each receiver associated with each detection. The latter replaced the column 'glatos\_project' that was included in previous versions. Those columns were added because some projects contain stations with the same 'glatos\_array' codes. For example, there is a station with 'glatos\_array' = 'DRM' in both the DRMLT project (Lake Huron) and THFHA project (Lake Ontario).

**GLATOS\_stationStatus\_yyyymmdd.pdf** contains a time series plot that shows the status of the data for each station in the database as of today. Broken lines for a station mean it was deployed on a given day (note solid symbol for deployment and open symbol for recovery) and green highlighting means detection data have been loaded into GLATOS. The purpose of this plot is to provide you a mechanism for quickly seeing what data have been added (note that the stations are organized by project) and to see what other stations were operating when your tags were at large. The GLATOS detection database provides a convenient way to access your detections on receivers across the network, but interpretation of the data depends on understanding (1) where receivers were deployed while your tags were active, and (2) which receiver data have been loaded into the database. Getting at #1 requires that PIs routinely update their GLATOS workbooks (\*.xlsm files) to GLATOSWeb and getting at #2 requires that PIs routinely submit their VRL files to me. You might also find the map and filters on the GLATOS Explore page ([data.glos.us/glatos/explore](http://data.glos.us/glatos/explore)) helpful for #1.

**GLATOS\_receiverLocations\_yyyymmdd\_######.csv** contains specific deployment, recovery dates and locations for all receiver stations in the GLATOS database. Please do not distribute this file to others.

***GlatosProject*\_\_vrl\_received\_yyyymmdd.csv** contains a list of \*.vrl files that we have received for this project. You might reference this in the future to determine which files you have already submitted to GLATOS (although resubmitting files in the future is not a problem; they simply get skipped on import if they were previously loaded).

Please review the status of data for your stations in the status plot (grouped by project).

**\*\*\*\*UPDATE on duplication issue\*\*\*\***

Slight differences in time-corrected detection timestamps (detection\_timestamp\_utc) from receiver data offloaded at different times and submitted in multiple VRL files to GLATOS may have resulted in some duplication in the detections table and possible misleading min\_lag values in ***previous*** tag detection export files.  Approximately 3% of the rows in the glatoslink database detections table were duplications of original raw (uncorrected) detection receiver timestamps (i.e., some uncorrected receiver timestamps may have more than one time-corrected timestamp).  Standard tag detection export files prior to April 2019 may have included this type of duplication. Typically, this type of duplication resulted in records with small min\_lag values (ranging from 0 to ~20 seconds).  Processing has been revised on 20190507 to eliminate the duplication and will only include the time corrected value from the receiver offload file that encompasses the longest deployment time (e.g., the newest file that contains each record).

Don't hesitate to email or call with questions.

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