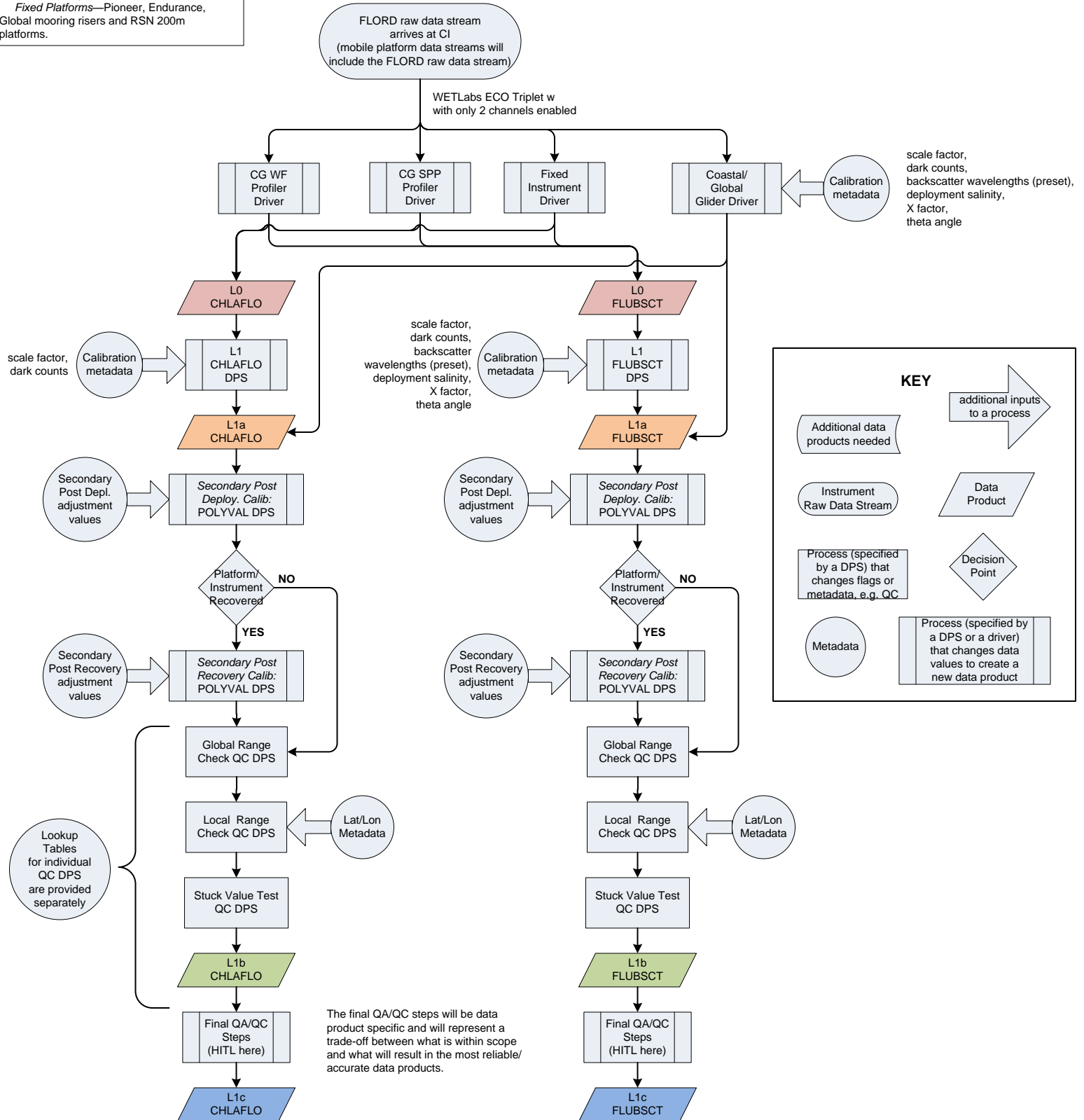# Data Processing Flow for CHLAFLO and FLUBSCT L0/L1 Data Products
from FLORD Instrument

NOTES

CHLAFLO and FLUBSCT Instruments are located on the following platforms:
Mobile Platforms— Open Ocean Gliders, AUVs, and both types of Global Profilers (SPP/shallow and WF)
Fixed Platforms—Pioneer, Endurance, Global mooring risers and RSN 200m platforms.

FLORD raw data stream arrives at CI
(mobile platform data streams will include the FLORD raw data stream)

WETLabs ECO Triplet w with only 2 channels enabled

CG WF Profiler Driver

CG SPP Profiler Driver

Fixed Instrument Driver

Coastal/ Global Glider Driver

Calibration metadata

scale factor,
dark counts,
backscatter wavelengths (preset),
deployment salinity,
X factor,
theta angle

L0 CHLAFLO

L0 FLUBSCT

scale factor, dark counts

Calibration metadata

L1 CHLAFLO DPS

scale factor,
dark counts,
backscatter wavelengths (preset),
deployment salinity,
X factor,
theta angle

Calibration metadata

L1 FLUBSCT DPS

L1a CHLAFLO

L1a FLUBSCT

Secondary Post Depl. adjustment values

Secondary Post Deploy. Calib: POLYVAL DPS

Secondary Post Depl. adjustment values

Secondary Post Deploy. Calib: POLYVAL DPS

Platform/ Instrument Recovered   **NO**

Platform/ Instrument Recovered   **NO**

YES

YES

Secondary Post Recovery adjustment values

Secondary Post Recovery Calib: POLYVAL DPS

Secondary Post Recovery adjustment values

Secondary Post Recovery Calib: POLYVAL DPS

Global Range Check QC DPS

Global Range Check QC DPS

Lookup Tables for individual QC DPS are provided separately

Local Range Check QC DPS

Lat/Lon Metadata

Local Range Check QC DPS

Lat/Lon Metadata

Stuck Value Test QC DPS

Stuck Value Test QC DPS

L1b CHLAFLO

L1b FLUBSCT

Final QA/QC Steps (HITL here)

The final QA/QC steps will be data product specific and will represent a trade-off between what is within scope and what will result in the most reliable/ accurate data products.

Final QA/QC Steps (HITL here)

L1c CHLAFLO

L1c FLUBSCT

KEY

additional inputs to a process

Additional data products needed

Instrument Raw Data Stream

Data Product

Process (specified by a DPS) that changes flags or metadata, e.g. QC

Decision Point

Metadata

Process (specified by a DPS or a driver) that changes data values to create a new data product

Document Control Sheet

VERSION	DATE	DESCRIPTION	ORIGINATOR
0-01	14-Mar-2012	Creation.	M. Neely
0-02	19-Mar-2012	Formatting and metadata updates.	S. Webster
0-03	15-May-2012	Correction for Global Mooring riser	M. Neely
0-04	17-May-2012	Minor update to Lookup Table note.	S. Webster
1-00	18-May-2012	Initial Release	E. Griffin
1-01	29-May-2012	Revised for FLUBSCT	M. Neely
1-02	11-July-2012	Removed Spike Test, updated metadata information.	S. Webster