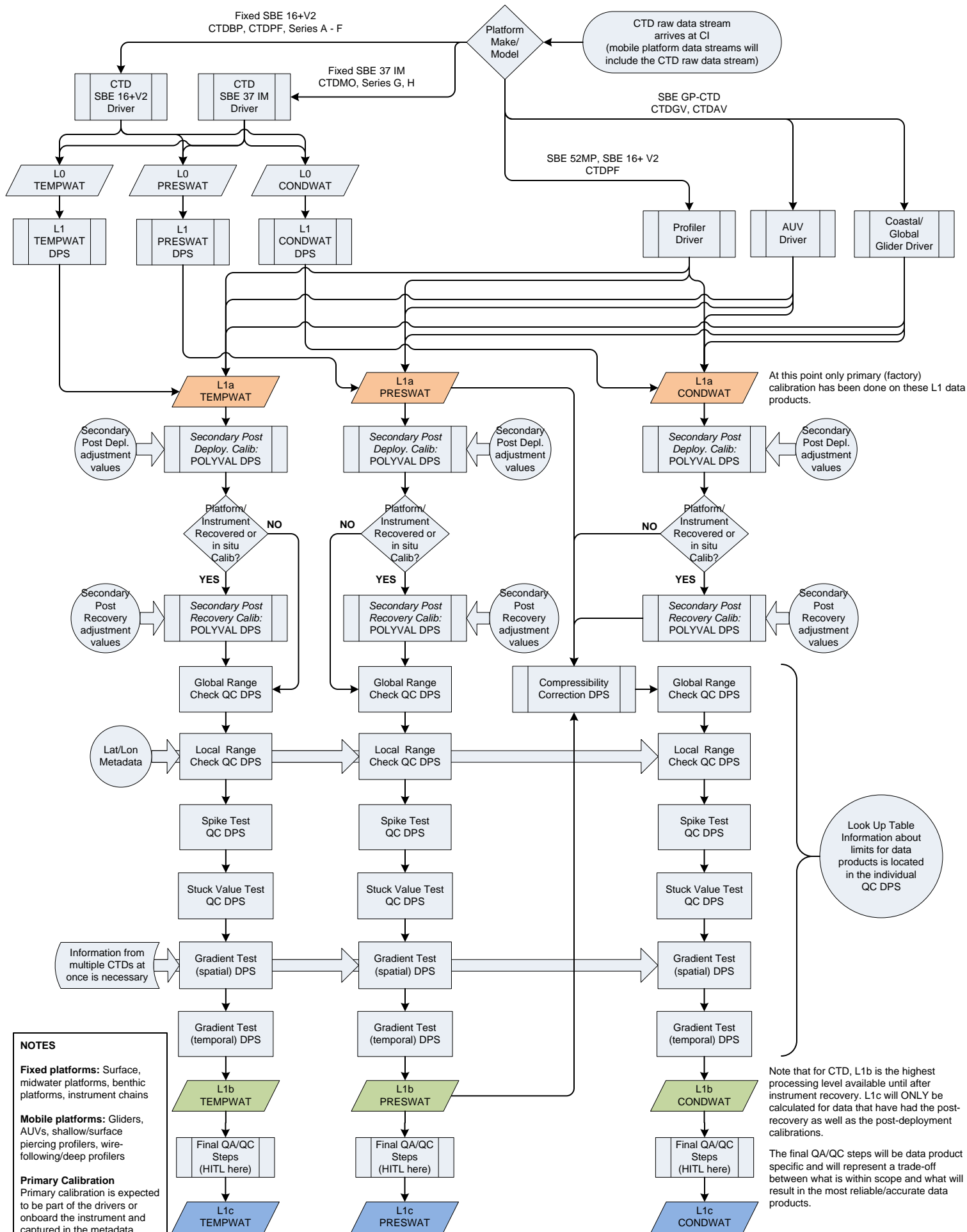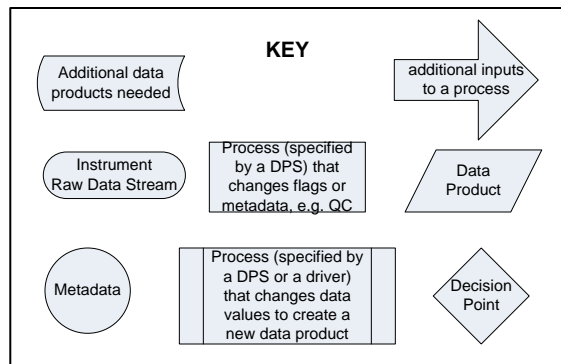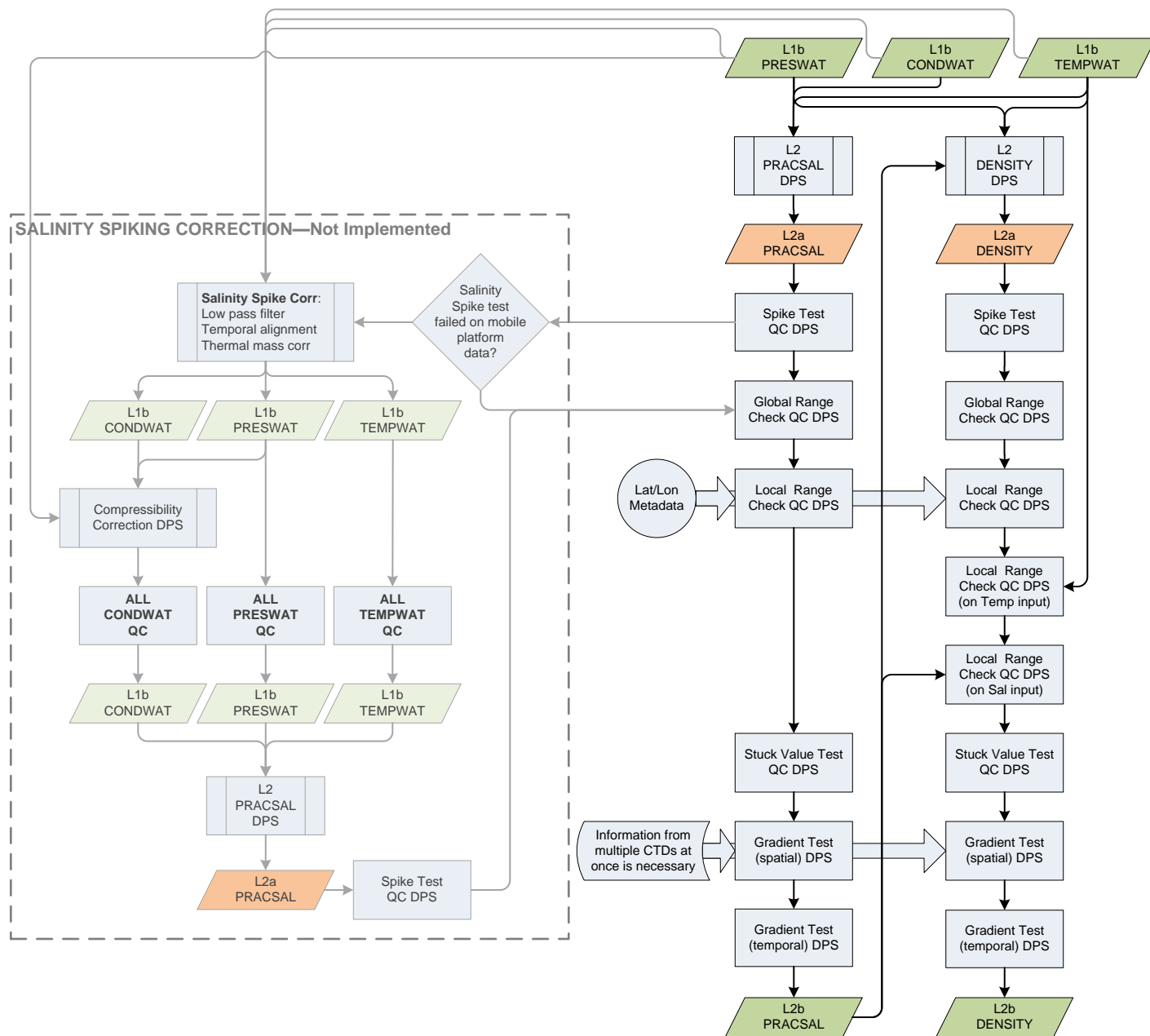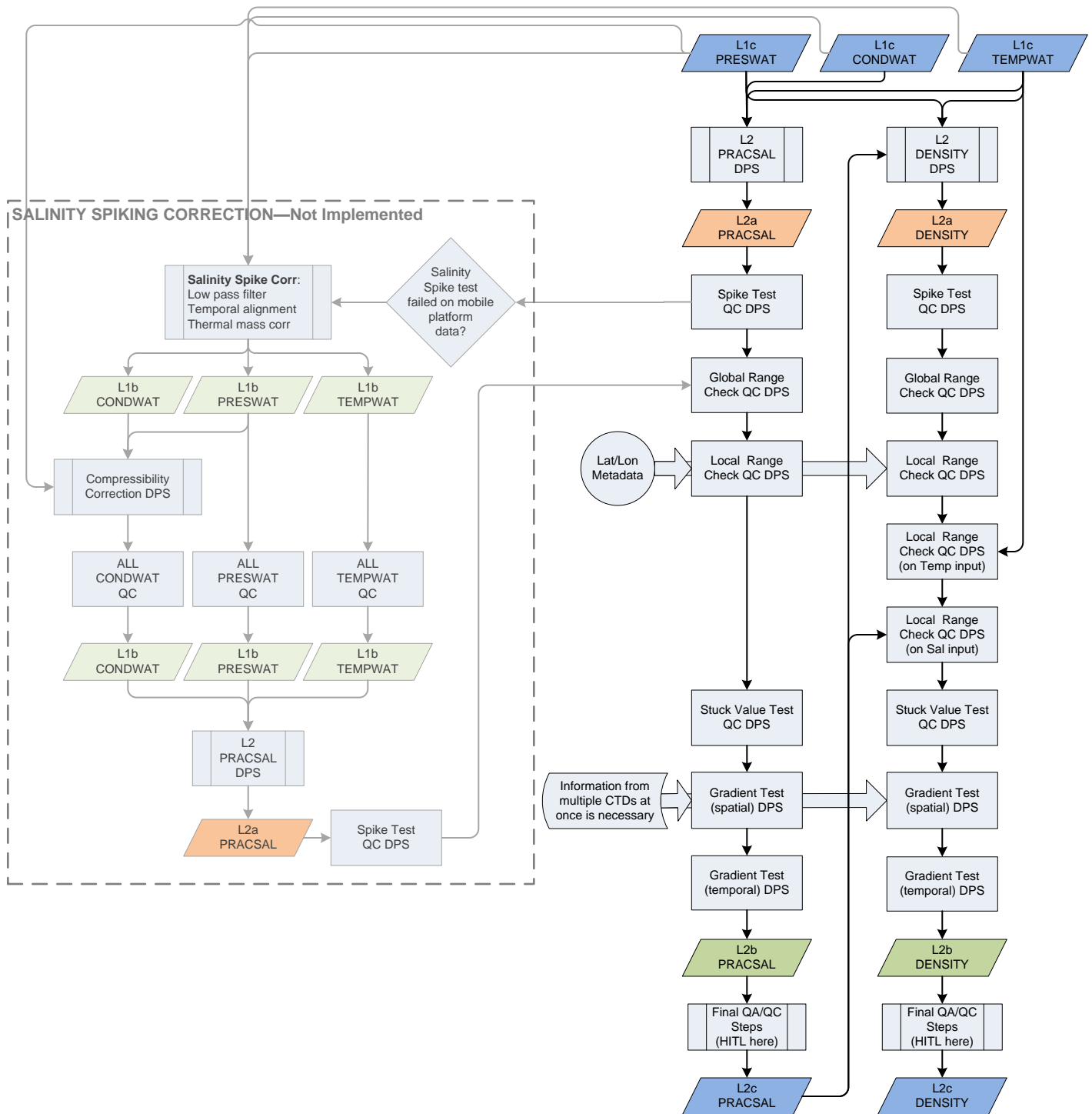# Data Processing Flow for L1 TEMPWAT, CONDWAT, and PRESWAT Data Products from CTDMO, CTDBP, CTDPF, CTDGV, CTDAV Instruments

Data Processing Flow for L2a and L2b DENSITY and SALINITY Data Products from CTDMO, CTDBP, CTDPF, CTDGV, CTDAV Instruments

Data Processing Flow for L2c DENSITY and SALINITY Data Products
from CTDMO, CTDBP, CTDPF, CTDGV, CTDAV Instruments

SALINITY SPIKING CORRECTION—Not Implemented

Salinity Spike Corr:
Low pass filter
Temporal alignment
Thermal mass corr

Salinity Spike test failed on mobile platform data?

L1b CONDWAT

L1b PRESWAT

L1b TEMPWAT

Compressibility Correction DPS

ALL CONDWAT QC

ALL PRESWAT QC

ALL TEMPWAT QC

L1b CONDWAT

L1b PRESWAT

L1b TEMPWAT

L2 PRACSAL DPS

L2a PRACSAL

Spike Test QC DPS

L1c PRESWAT

L1c CONDWAT

L1c TEMPWAT

L2 PRACSAL DPS

L2 DENSITY DPS

L2a PRACSAL

L2a DENSITY

Spike Test QC DPS

Spike Test QC DPS

Global Range Check QC DPS

Global Range Check QC DPS

Lat/Lon Metadata

Local Range Check QC DPS

Local Range Check QC DPS

Local Range Check QC DPS (on Temp input)

Local Range Check QC DPS (on Sal input)

Stuck Value Test QC DPS

Stuck Value Test QC DPS

Information from multiple CTDs at once is necessary

Gradient Test (spatial) DPS

Gradient Test (spatial) DPS

Gradient Test (temporal) DPS

Gradient Test (temporal) DPS

L2b PRACSAL

L2b DENSITY

Final QA/QC Steps (HITL here)

Final QA/QC Steps (HITL here)

L2c PRACSAL

L2c DENSITY

NOTES

L2c PRACSAL and DENSITY are only computed using L1c PRESWAT, CONDWAT, TEMPWAT data products as inputs. L2c PRACSAL and DENSITY are **not** computed from L1b data products.

Document Control Sheet

VERSION	DATE	DESCRIPTION	ORIGINATOR
0-01	26-Oct-2011	Created.	L. Heilman
0-09	14-Feb-2012	Added greyed out Salinity Spiking for L2c products.	S. Webster
0-10	12-Mar-2012	Moved separate sheets to separate tabs and added Version Control tab.	S. Webster
1-00	15-Mar-2012	Approved by CI Signing Authority (Bill French) and Chief Systems Engineer (Ed Chapman).	S. Webster