

Oceanographic Survey Data Quality Report Glacier Bay National Park and Preserve

CTD #: 7 Data Dump # 0310 Starting Date: January 08, 2023

Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐

- OR -

01			☐	☐	☐	☐	☐	☐
02			☐	☐	☐	☐	☐	☐
03			☐	☐	☐	☐	☐	☐
04			☐	☐	☐	☐	☐	☐
05			☐	☐	☐	☐	☐	☐
06			☐	☐	☐	☐	☐	☐
08			☐	☐	☐	☐	☐	☐
09			☐	☐	☐	☐	☐	☐
10			☐	☐	☐	☐	☐	☐
11			☐	☐	☐	☐	☐	☐
12			☐	☐	☐	☐	☐	☐
13			☐	☐	☐	☐	☐	☐
14			☐	☐	☐	☐	☐	☐
15			☐	☐	☐	☐	☐	☐
16			☐	☐	☐	☐	☐	☐
17			☐	☐	☐	☐	☐	☐
18			☐	☐	☐	☐	☐	☐
19			☐	☐	☐	☐	☐	☐
20			☐	☐	☐	☐	☐	☐
21			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐

Analyst's Comments

(these are not applied to the database)

This dump contains the first cast data collected in oceanographic year 2023; it represents the "mid-winter all-stations" survey. Twenty of 22 stations (00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 16, 17, 18, 21 and 24) were successfully occupied. Stations 19, 20 in the upper East arm were not accessible due to thick pan ice.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTURT-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Cast 7 is not included in the dataset as during the cast there was a winch failure. Station was later reoccupied and cast.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad

as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).

Deliverable OC_M reporting sheet, revised 2/3/2010

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

CTD #: **7**

Data Dump # 0311

Starting Date: **March 09, 2023**

Defective / Absent Sensors

[illegible]

- OR -

[illegible]

Analyst's Comments

(these are not applied to the database)

This dump contains cast data from eight of eight core stations (01, 04, 07, 12, 13, 16, and 24) during the March 2023 survey.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTURT-7726) was out of specification. The conductivity sensor drift was found to be within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally.

Cast 22 is not included in the database as it was a false cast.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad
as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_S database to have its values made NULL for the indicated cast(s).

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

Data Dump # 0312

Starting Date: April 4, 2023

Defective / Absent Sensors

[illegible]

- OR -

[illegible]

Analyst's Comments

(these are not applied to the database)

This dump contains cast data from eight of eight core stations (01, 04, 07, 12, 13, 16, and 24) during the April, 2023 survey.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTURT-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Cast 31 is not included in the dataset as it was a false cast.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad
as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

Data Dump # 0313

Starting Date: **May 9, 2023**

Defective / Absent Sensors

[illegible]

- OR -

[illegible]

Analyst's Comments

(these are not applied to the database)

This dump contains cast data from eight of eight core stations (01, 04, 07, 12, 13, 16, and 24) during the May, 2023 survey.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTURT-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad

as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

CTD #: 7 Data Dump # 0314 Starting Date: May 31, 2023

Defective / Absent Sensors

[illegible]

- OR -

[illegible]

Analyst's Comments

(these are not applied to the database)

This dump contains cast data collected from all 8 core stations (01, 04, 07, 12, 13, 16, 20, and 24) during the "June" 2023 survey (actually conducted on May 31 due to area closures in the East Arm to motorized vessels).

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTUR7-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad
as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

CTD #: 7 Data Dump # 0315 Starting Date: July 19, 2023

Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump			☐	☐	☐	☐	☐	☐

- OR -

56	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
57	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
58	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
59	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
60	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
61	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
62	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
63	4	Anomalous conductivity change at 138-142 meters depth. Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
64	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
65	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
66	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
67	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
68	4	CTD likely hit bottom. Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
69	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
70	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
71	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
72	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
73	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
74	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
75	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
76	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
77	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐

Analyst's Comments

(these are not applied to the database)

This dump contains cast data collected from all 22 stations (00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, and 24) during the mid-summer "all-stations" July 2023 survey.

Cast 63 exhibits an abrupt decrease in conductivity that appears anomalous. For this reason the cast is marked as questionable.

Cast 68 high turbidity and an abrupt decline in conductivity at bottom depths suggests the CTD contacted the bottom. Data near the bottom may need to be discarded.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTURT-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad

as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).

Deliverable OC_M reporting sheet, revised 2/3/2010

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

CTD #: 7 Data Dump # 0316 Starting Date: August 10, 2023

Defective / Absent Sensors

[illegible]

- OR -

[illegible]

Analyst's Comments

(these are not applied to the database)

This dump contains cast data collected from all 8 core stations (01, 04, 07, 12, 13, 16, 20, and 24) during the August, 2023 survey.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTUR-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad
as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

CTD #: 7 Data Dump # 0317 Starting Date: September 5, 2023

Defective / Absent Sensors

[illegible]

- OR -

86	4	CTD likely hit bottom. Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
87	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
88	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
89	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
90	4	Anomalous conductivity change at 126-129 meters depth. Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
91	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
92	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
93	1	Post cruise year service found the FLNTURT sensor was out of specification.	☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐
			☐	☐	☐			

Analyst's Comments

(these are not applied to the database)

This dump contains cast data collected from all 8 core stations (01, 04, 07, 12, 13, 16, 20, and 24) during the September, 2023 survey.

Cast 86 high turbidity and an abrupt decline in conductivity at bottom depths suggests the CTD contacted the bottom. Data near the bottom may need to be discarded.

Cast 90 exhibits an anomolous and abrupt decline in conductivity at 126-129 meters depth. For this reason the cast has been marked questionable.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTUR7-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad

as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

CTD #: 7 Data Dump # 0318 Starting Date: September 30, 2023

Defective / Absent Sensors

[illegible]

- OR -

[illegible]

Analyst's Comments

(these are not applied to the database)

This dump contains cast data collected from 5 core stations (24,01,04,07,12) during the "October" (conducted on the last day of September) 2023 survey. This cruise concludes the 2023 oceanographic survey year.

Cast 98 exhibits an abrupt spike in turbidity at near bottom depths suggesting the CTD contacted the bottom. Data from the bottom of these casts may need to be discarded.

Cast 99 exhibits an abrupt spike in turbidity and decrease in conductivity at near bottom depths suggesting the CTD contacted the bottom. Data from the bottom of these casts may need to be discarded.

The October cast data is split into two data dumps due to exceeding 100 cast. Cast serial numbers cannot be more than two digits. Casts 100-102 (01,02,03) are included in dump 0319.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTUR-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Cast 94 is not included in the dataset as it was used to obtain speed of sound through water near the lower Bay hydrophone.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad

as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).

Oceanographic Survey Data Quality Report

Glacier Bay National Park and Preserve

CTD #: **7** Data Dump # **0319** Starting Date: **September 30, 2023**

Defective / Absent Sensors

[illegible]

- OR -

[illegible]

Analyst's Comments

(these are not applied to the database)

This dump contains cast data collected from all 3 core stations (13,16,20) during the "October" (conducted on the last day of September) 2023 survey. This cruise concludes the 2023 oceanographic survey year.

The October cast data is spilt into two data dumps (3018,3019) because cast serial cast number exceeded 99. Cast numbers can only be two digits.

The post cruise year service report for CTD #7 indicated excessive drift in the conductivity cell and that the dual channel fluorometer and turbidity meter (FLNTUR7-7726) was out of specification. The conductivity sensor drift was found to be well within the oceanographic program's threshold of 0.06 PSU and does not need to be flagged. Fluorescence and turbidity measurements were within normal ranges relative to the long term record, but measurements are flagged as suspect. All other sensors performed normally and were within calibration specifications.

Data quality codes are:

0 - good 1 - unknown 4 - questionable 8 - bad

as defined for Ocean Data View at http://odv.awi.de/fileadmin/user_upload/odv/misc/ODV4_QualityFlagSets.pdf.

Disqualified sensors are either those disconnected from the instrument or those, after cast data are reviewed, determined to be giving invalid readings. Checking the sensor's disqualify box will cause the OC_D database to have its values made NULL for the indicated cast(s).