Oceanographic Survey Data Quality Report
Glacier Bay National Park and Preserve

CTD #: __6__ **Data Dump # ____0300____** **Starting Date: __January 23, 2022__** **Defective / Absent Sensors**

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**4**	**All dissolved oxygen measurements in all casts for entire data dump (entire survey) disqualified due to suspect O2 sensor (see Comments below).**	☐	☐	☐	☐	☐	☑

- OR -

01			☐	☐	☐	☐	☐	☐
02			☐	☐	☐	☐	☐	☐
03			☐	☐	☐	☐	☐	☐
04			☐	☐	☐	☐	☐	☐
05			☐	☐	☐	☐	☐	☐
06			☐	☐	☐	☐	☐	☐
07			☐	☐	☐	☐	☐	☐
08			☐	☐	☐	☐	☐	☐
09			☐	☐	☐	☐	☐	☐
10			☐	☐	☐	☐	☐	☐
11			☐	☐	☐	☐	☐	☐
12			☐	☐	☐	☐	☐	☐
13			☐	☐	☐	☐	☐	☐
14			☐	☐	☐	☐	☐	☐
15			☐	☐	☐	☐	☐	☐
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Analyst's Comments
(these are not applied to the database)

This dump contains the first cast data collected in oceanographic year 2022; it represents the "mid-winter all-stations" survey. Fifteen of 22 stations (00, 01, 02, 03, 04, 05, 06, 07, 11, 12, 13, 14, 16, 21 and 24) were successfully occupied. Stations 18, 19, 20 in the upper East arm were not accessible due to thick pan ice. Station 10 near Johns Hopkins Inlet was not accesible due to pan ice. Heavy seas and bad weather prevented occupying staions 08 ,09 and 10 during this survey.

Dissolved oxygen (DO) data were disqualified for all casts performed during this survey (entire data dump) because measurements were substantially lower than any ever observed in Glacier Bay previously, thoughout the water column, at all stations, and they could not be reasonably explained. DO values normally range from 4-6.5 ml/l across stations, depths, and seasons; these values ranged much lower than normal. Because these abnormally low values are not credible and cannot be explained, the 02 sensor is deemed unreliable and thus is disqualified for the entire survey. The post season calibration report found that the membrane on the DO sensor was damaged.

All other sensors performed normally.

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 #: __6__ **Data Dump # ____0301____** **Starting Date: ____March 08, 2022____** **Defective / Absent Sensors**

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**4**	**All dissolved oxygen measurements in all casts for entire data dump (entire survey) disqualified due to suspect O2 sensor (see Comments below).**	☐	☐	☐	☐	☐	☑

- OR -

16			☐	☐	☐	☐	☐	☐
17			☐	☐	☐	☐	☐	☐
18			☐	☐	☐	☐	☐	☐
19			☐	☐	☐	☐	☐	☐
20			☐	☐	☐	☐	☐	☐
21			☐	☐	☐	☐	☐	☐
22			☐	☐	☐	☐	☐	☐
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Analyst's Comments
(these are not applied to the database)

This dump contains cast data from seven of eight core stations (01, 04, 07, 12, 13, 16, and 24) during the March 2022 survey. Station 20 was inaccessible due thick pan ice across Muir Inlet north of Riggs Glacier.

Dissolved oxygen (DO) data were disqualified for all casts performed during this survey (entire data dump) because measurements were substantially lower than any evert observed in Glacier Bay previously, thoughout the water column, at all stations, and they could not be reasonably explained. DO values normally range from 4-6.5 ml/l across stations, depths, and seasons; these values ranged much lower than normal. Because these abnormally low values are not credible and cannot be explained, the 02 sensor is deemed unreliable and thus is disqualified for the entire survey. The post season calibration report found that the membrane on the DO sensor was damaged.

All other sensors performed normally.

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 #: __5__ **Data Dump # ____0302____** **Starting Date: __April 8, 2022_____** **Defective / Absent Sensors**

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**0**		☐	☐	☐	☐	☐	☐

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01			☐	☐	☐	☐	☐	☐
02			☐	☐	☐	☐	☐	☐
03			☐	☐	☐	☐	☐	☐
04			☐	☐	☐	☐	☐	☐
05			☐	☐	☐	☐	☐	☐
06			☐	☐	☐	☐	☐	☐
07			☐	☐	☐	☐	☐	☐
08			☐	☐	☐	☐	☐	☐
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Analyst's Comments
(these are not applied to the database)

This dump contains cast data from All eight core stations (01, 04, 07, 12, 13, 16, 20 and 24) during the April 2022 survey.

Due to erroneous dissolved oxygen sensor readings on CTD#6 during the winter and March cruises we deployed CTD#5 this cruise. CTD#5 was used for the remainder of the survey year.

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
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CTD #: __5__ **Data Dump # ____0303____** **Starting Date: ___May 4, 2022____** **Defective / Absent Sensors**

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**0**		☐	☐	☐	☐	☐	☐

- OR -

09			☐	☐	☐	☐	☐	☐
10			☐	☐	☐	☐	☐	☐
11			☐	☐	☐	☐	☐	☐
12			☐	☐	☐	☐	☐	☐
13			☐	☐	☐	☐	☐	☐
14			☐	☐	☐	☐	☐	☐
15			☐	☐	☐	☐	☐	☐
16			☐	☐	☐	☐	☐	☐
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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 May 2022 survey.

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).

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CTD #: __5__ **Data Dump # ____0304____** **Starting Date: ____May 31, 2022____** **Defective / Absent Sensors**

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**0**		☐	☐	☐	☐	☐	☐

- OR -

17			☐	☐	☐	☐	☐	☐
18			☐	☐	☐	☐	☐	☐
19			☐	☐	☐	☐	☐	☐
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21			☐	☐	☐	☐	☐	☐
22			☐	☐	☐	☐	☐	☐
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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" 2022 survey (actually conducted on May 31 and June 1) due to area closurs in the East Arm to motorized vessels.

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).

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CTD #: __5__ **Data Dump # ____0305____** **Starting Date: ____July 01, 2022____** **Defective / Absent Sensors**

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**0**		☐	☐	☐	☐	☐	☐

- OR -

25			☐	☐	☐	☐	☐	☐
26			☐	☐	☐	☐	☐	☐
27			☐	☐	☐	☐	☐	☐
28			☐	☐	☐	☐	☐	☐
29			☐	☐	☐	☐	☐	☐
30			☐	☐	☐	☐	☐	☐
31			☐	☐	☐	☐	☐	☐
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Analyst's Comments
(these are not applied to the database)

This dump contains cast data collected during an exploratory cruise with Hoonah high school students. The casts collected during this cruise, in data dump #0305, are not included in the oceanographic data set. This serves to describe why Dump# and cast sequences are not continues.

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
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CTD #: __5_ **Data Dump # ____0306____** **Starting Date: ____July 7, 2022____** **Defective / Absent Sensors**

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**0**		☐	☐	☐	☐	☐	☐

- OR -

33			☐	☐	☐	☐	☐	☐
34			☐	☐	☐	☐	☐	☐
35			☐	☐	☐	☐	☐	☐
36			☐	☐	☐	☐	☐	☐
37			☐	☐	☐	☐	☐	☐
38			☐	☐	☐	☐	☐	☐
39			☐	☐	☐	☐	☐	☐
40			☐	☐	☐	☐	☐	☐
41			☐	☐	☐	☐	☐	☐
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46			☐	☐	☐	☐	☐	☐
47			☐	☐	☐	☐	☐	☐
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51			☐	☐	☐	☐	☐	☐
52			☐	☐	☐	☐	☐	☐
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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 2022 survey. Cast 32 is not included in the dataset. On cast 32 at station 20, the CTD was suspected to have low batteries. We recast station 20 and only included cast 33.

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).

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CTD #: __5__ **Data Dump # ____0307____** **Starting Date: _August 08, 2022___** **Defective / Absent Sensors**

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**0**		☐	☐	☐	☐	☐	☐

- OR -

55			☐	☐	☐	☐	☐	☐
56			☐	☐	☐	☐	☐	☐
57			☐	☐	☐	☐	☐	☐
58			☐	☐	☐	☐	☐	☐
59			☐	☐	☐	☐	☐	☐
60			☐	☐	☐	☐	☐	☐
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62			☐	☐	☐	☐	☐	☐
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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 2022 survey.

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
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CTD #: __5__ Data Dump # ____0308____ Starting Date: ___September 06, 2022___ Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**0**		☐	☐	☐	☐	☐	☐

- OR -

63			☐	☐	☐	☐	☐	☐
64			☐	☐	☐	☐	☐	☐
65			☐	☐	☐	☐	☐	☐
66			☐	☐	☐	☐	☐	☐
67			☐	☐	☐	☐	☐	☐
68			☐	☐	☐	☐	☐	☐
69			☐	☐	☐	☐	☐	☐
70			☐	☐	☐	☐	☐	☐
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Analyst's Comments
(these are not applied to the database)

This dump contains cast data collected from all 8 core stations (01,04,07,12,13,16,20,24) during the September 2022 survey.

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 #: __5__ Data Dump # ____0309____ Starting Date: ___October 06, 2022___ Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	**0**		☐	☐	☐	☐	☐	☐

- OR -

71			☐	☐	☐	☐	☐	☐
72			☐	☐	☐	☐	☐	☐
73			☐	☐	☐	☐	☐	☐
74			☐	☐	☐	☐	☐	☐
75			☐	☐	☐	☐	☐	☐
76			☐	☐	☐	☐	☐	☐
77			☐	☐	☐	☐	☐	☐
78			☐	☐	☐	☐	☐	☐
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			☐	☐	☐	☐	☐	☐
			☐	☐	☐	☐	☐	☐

Analyst's Comments
(these are not applied to the database)

This dump contains cast data collected from all 8 core stations (01,04,07,12,13,16,20,24) during the October 2022 survey. This cruise concludes the 2022 oceanographic survey year.

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.

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