

Oceanographic Survey Data Quality Report Glacier Bay National Park and Preserve

CTD #: 5 Data Dump # 0255 Starting Date: January 11, 2017

Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	0 (except for Fluo and OBS)	All fluorescence and turbidity measurements in all casts for entire data dump (entire survey) disqualified due to suspect sensor (see Comments below).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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05			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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08		Replicate cast of Cast 07 (same station).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
09			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10		Replicate cast of Cast 09 (same station).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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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 2017; it represents the "mid-winter all-stations" survey. Cast #s 01-04 were not uploaded. Two of the casts (08 and 10) are replicates (same station) of the immediately preceding casts. 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) were successfully occupied.

Fluorescence data were disqualified for all casts performed during this survey (entire data dump) because of atypical (for mid-winter) unusually high readings (to 12 mg/m³) from two of the 22 stations (all other stations recorded no fluorescence, which is typical). At those two stations, fluorescence was completely absent in the upper water column, suddenly appearing at depth (60 m or 185 m) and continuing to the bottom of the cast. These suspicious observations, especially for this time of year, cannot be explained. Moreover, the associated turbidity data (the fluorometer and OBS sensor are combined into a single "combination" sensor) seem to track the fluorometry, with an unexplainable substantial NTU increase accompanying the sudden spikes in fluorescence. These suspicious observations cannot be explained and so deem the sensor unreliable and thus justify its disqualification for the entire survey. Manufacturer technical support concurs.

All other sensors appear to have operated properly.

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

Oceanographic Survey Data Quality Report Glacier Bay National Park and Preserve

CTD #: 5 Data Dump # 0258 Starting Date: May 31, 2017 Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	0 (except for Fluo and OBS)	All fluorescence and turbidity measurements in all casts for entire data dump (entire survey) disqualified due to suspect sensor (see Comments below).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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47			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Oceanographic Survey Data Quality Report Glacier Bay National Park and Preserve

CTD #: 5 Data Dump # 0259 Starting Date: July 14, 2017

Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	0 (except for Fluo and OBS)	All fluorescence and turbidity measurements in all casts for entire data dump (entire survey) disqualified due to suspect sensor (see Comments below).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- OR -

55		Replicate cast (1 of 2) from Station 24.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56		Replicate cast (2 of 2) from Station 24.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Analyst's Comments

(these are not applied to the database)

This Dump contains cast data collected during the July 2017 "mid-summer all-stations" survey. 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) were successfully occupied. Note that Cast #s 55 and 56 are replicates of Station 24, and that Cast 65 is intentionally missing (bad cast, data not uploaded).

Fluorescence and NTU data were disqualified for all casts performed during this survey (entire data dump) because several of the casts recorded very atypical vertical distributions of fluorescence and turbidity that cannot be explained (see Comments from Data Dump #s 0266 and 0256). The sensor is thus deemed unreliable, and is disqualified for the entire survey. Manufacturer technical support concurs.

All other sensors appear to have operated properly.

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

Oceanographic Survey Data Quality Report Glacier Bay National Park and Preserve

CTD #: 5 Data Dump # 0260 Starting Date: August 7, 2017

Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	0 (except for Fluo and OBS)	All fluorescence and turbidity measurements in all casts for entire data dump (entire survey) disqualified due to suspect sensor (see Comments below).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- OR -

79			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Oceanographic Survey Data Quality Report Glacier Bay National Park and Preserve

CTD #: 5 Data Dump # 0261 Starting Date: September 5, 2017

Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	0 (except for Fluo and OBS all casts, and PAR for Cast 90)	All fluorescence and turbidity measurements in all casts for entire data dump (entire survey) disqualified due to suspect sensor (see Comments below).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- OR -

87		Replicate cast (1 of 2) from Station 01.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
89			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
90	8 (for PAR)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
92			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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96		Replicate cast (2 of 2) from Station 01.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Oceanographic Survey Data Quality Report Glacier Bay National Park and Preserve

CTD #: 5 Data Dump # 0262 Starting Date: October 2, 2017

Defective / Absent Sensors

Cast#	Quality Code	Data Quality Comment	Cond	Temp	Fluo	OBS	PAR	O2
All Casts in Dump	0 (except for Fluo and OBS)	All fluorescence and turbidity measurements in all casts for entire data dump (entire survey) disqualified due to suspect sensor (see Comments below).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- OR -

01			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
02		Replicate cast (1 of 4) from Station 24.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
03		Replicate cast (2 of 4) from Station 24.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
04		Replicate cast (3 of 4) from Station 24.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
05		Replicate cast (4 of 4) from Station 24.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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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 October 2017 survey.

Fluorescence data were disqualified for all casts performed during this survey (entire data dump) because the sensor recorded either no fluorescence at all, or very atypical vertical distributions of fluorescence that cannot be explained (see Comments from Data Dump #s 0266 and 0256). Moreover, because of the "combination" nature of the fluorometry and turbidity sensors, and the fact that apparently spurious detections by both seemed to be linked in survey data earlier in the year, the NTU data are similarly suspect. Consequently, the sensor is deemed unreliable, and is disqualified for the entire survey. Manufacturer technical support concurs.

All other sensors appear to have operated properly.

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