### ATTACHMENT C EVOSTC Annual Project Report Form

#### Form Rev. 10.3.14

1. **Program Number:** See, Reporting Policy at III (C) (1).

13120114-P

2. Project Title: See, Reporting Policy at III (C) (2).

Long-term Monitoring of Oceanographic Conditions in the Alaska Coastal Current from Hydrographic Station GAK 1

**3. Principal Investigator(s) Names:** *See*, Reporting Policy at III (C) (3).

Thomas Weingartner

**4. Time Period Covered by the Report:** *See*, Reporting Policy at III (C) (4).

February 1, 2014-January 31, 2015

**5. Date of Report:** *See*, Reporting Policy at III (C) (5).

February 10, 2015

**6.** Project Website (if applicable): See, Reporting Policy at III (C) (6).

www.gulfwatchalaska.org and http://www.ims.uaf.edu/gak1/

7. Summary of Work Performed: See, Reporting Policy at III (C) (7).

Our sampling activities include 1) quasi-monthly CTD casts at station GAK 1 (periods of sampling given in table below) and the recovery and re-deployment of a string of 6 temperature-conductivity-pressure (TCP) recorders on a mooring at GAK 1. This mooring is recovered and re-deployed annually in March of each year. After the mooring is recovered the TCPs are sent to Seabird for post-calibration.

Deliverable/Milestone	Status
February 2014 CTD cast at GAK 1	Completed
March 2014 mooring recovery and re-	Completed
deployment at GAK 1	
March 2014 CTD cast at GAK 1	Completed
April 2014 CTD cast at GAK 1	Completed
May CTD cast at GAK 1	Completed
June CTD cast at GAK 1	Completed
September CTD cast at GAK 1	Completed
November CTD cast at GAK 1	Completed
December CTD cast at GAK 1	Completed
January 2015 CTD cast at GAK 1	Completed

# **8.** Coordination/Collaboration: See, Reporting Policy at III (C) (8).

- Publications produced during the reporting period: **none**
- Conference and workshop presentations and attendance during the reporting period:
  Weingartner attended the Gulfwatch PI meeting in November 2013, the Alaska Marine Science
  Symposium in January 2014 and the EVOSTC Science Meeting in February 2015. The following
  talk was given at the AKMSS meeting in January 2015.

Gulf Watch Alaska: Monitoring the Pulse of the Gulf of Alaska's Changing Ecosystems

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- Data and/or information products developed during the reporting period, if applicable: Dr. Weingartner's graduate student (James Kelly) has used the GAK 1 data sets to investigate sea level variability in Seward. The goal here is to determine the causes for sea level variations and eventually to determine if Seward Sea level can be used as a proxy for current variations in the ACC. We find that the annual cycle of sea level variations at Seward are in-phase with dynamic heath (vertically-integrated density) at GAK 1. At periods of days to ~1 month the sea level variations are significantly coherent with and in-phase with the along-shore winds over the Gulf of Alaska shelf, especially in fall, winter, and early spring. Given that the wind is also coherent with ACC transport at these periods it appears that Seward Sea level anomalies at these periods may be useful as an index of ACC transport. Mr. Kelly will graduate with an MS degree in spring 2015.
- Data sets and associated metadata that have been uploaded to the program's data portal.

All Data through 2013 has been uploaded to <a href="www.gulfwatchalaska.org">www.gulfwatchalaska.org</a> and <a href="http://www.ims.uaf.edu/gak1/">http://www.ims.uaf.edu/gak1/</a>

# **9. Information and Data Transfer:** *See*, Reporting Policy at III (C) (9).

There have been 37 publications that have used the data from GAK1 of which we are aware. These include data sets for several student theses, for use in peer-reviewed papers, and by the North Pacific Management Council in their Groundfish Stock Assessment and Fishery Evaluation Reports

10. Response to EVOSTC Review, Recommendations and Comments: See, Reporting Policy at III (C) (10).

No recommendations provided

#### **11. Budget:** *See*, Reporting Policy at III (C) (11).

Please see attached budget form for details. This project is behind in spending due to a number of factors. The State of Alaska fiscal years are offset, with billing showing through July 2014. Additionally, this project is a continuation of previously awarded EVOS funding, and during year 1, was spending the balance of previous funding packages.

Budget Category:	Proposed	Proposed	Proposed	Proposed	Proposed	TOTAL	Actual
	FY 12	FY 13	FY 14	FY 15	FY 16	PROPOSED	Cumulative
Personnel	\$2.0	\$2.0	\$2.0	\$2.0	\$0.0	\$8.0	\$6.1
Travel	\$5.4	\$5.4	\$5.4	\$5.4	\$1.8	\$23.4	\$19.8
Contractual	\$103.5	\$104.8	\$114.7	\$116.5	\$46.1	\$485.6	\$302.9
Commodities	\$6.0	\$6.0	\$6.0	\$6.0	\$2.0	\$26.0	\$12.9
Equipment	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Indirect Costs (will vary by proposer)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
SUBTOTAL	\$116.9	\$118.2	\$128.1	\$129.9	\$49.9	\$543.0	\$341.7
General Administration (9% of subtotal)	\$10.5	\$10.6	\$11.5	\$11.7	\$4.5	\$48.9	\$30.8
PROJECT TOTAL	\$127.4	\$128.8	\$139.6	\$141.6	\$54.4	\$591.9	\$372.5
Other Resources (In kind Funds)	\$83.5	\$74.7	\$75.0	\$78.5	\$25.0	\$336.7	\$233.2

COMMENTS: In-kind contribution from NOAA - \$25K/year in salary for Moran. An addition \$58.5K in FY12, \$49.7K in FY13, \$50.0K in FY14,and \$54.9K in FY15 of NOAA ship time was used to increase survey effort.

**FY12-16** 

Program Title: 15120114-N Humpback Whale

Monitoring

Team Leader: Moran/Straley

SUMMARY