



Trans-Boundary Aspects of the Alaska Emergency Towing System (ETS)

Bob Mattson
SE Alaska SOSOC, ADEC



In the Beginning

There were no ETS in Alaska



ADEC crews burning oily debris from the Lee Wang Zin bunker C oil spill







Alaska ETS Developed

- March 2007 - Mayor of Unalaska convened a Disabled Vessel Workgroup
- ETS Workgroup Goal: develop emergency towing capabilities in the Aleutian Subarea using locally available tugboats in conjunction with ETS equipment stationed in Unalaska
- City of Unalaska committed to purchase ETS for vessel <50,000 DWT
- ADEC committed to purchase ETS for vessel >50,000 DWT & contracted NUKA Research & Planning Group as a facilitator
- 1st Deployment Exercise of an ETS held August 2007 in Unalaska



Storage Tote/Cage

Deploy from this corner



Instruction Manual



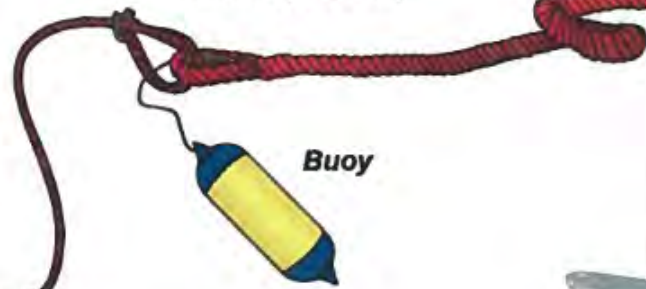
Helicopter with ETS to drop off on ship

Towing Shackle
2.5 in.



Rescue Tug

Thimble (Tug end)

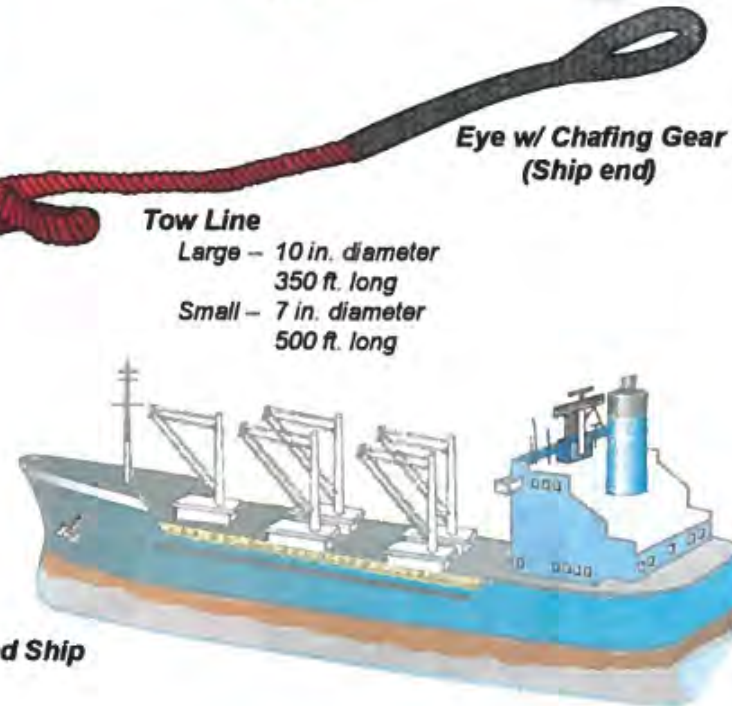


Buoy

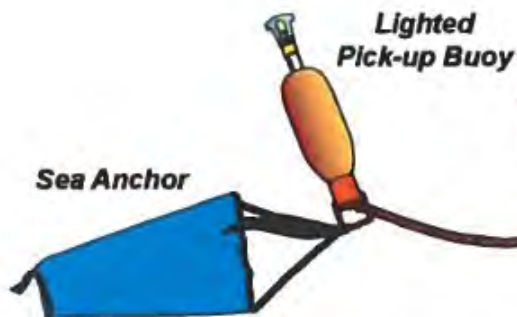
Tow Line

- Large - 10 in. diameter
350 ft. long
- Small - 7 in. diameter
500 ft. long

Eye w/ Chafing Gear
(Ship end)



Distressed Ship



Sea Anchor

Lighted
Pick-up Buoy

600 ft. Messenger Line

NOTE: See following pages for more specifications.

Illustration sc-2. ETS components and nomenclature for the ship-to-tug deployment.



Today's ETS





ETS SAVES

***Golden Seas* - December 3-7, 2010**

- 738-foot cargo vessel
- Great Circle Route
- Loss of power – adrift ivo Adak Is.
- Threat: ~ 452,000 gal IFO 380 + diesel & lube
- Team: Tug ***Tor Viking II*** with 10-inch ADEC ETS
- Tow speed: 7-9 kts.





ETS SAVES

Laura Maersk- July 14-15, 2017

- Cargo vessel
- Great Circle Route
- Loss of power – adrift off Akutan
- Team: Tugs *Millenium Falcon* and *Gretchen Dunlap* with ADEC ETS
- Caught ~ 5.5 nm from landfall on Akutan



Trans-Boundary ETS?



The North Pacific Great Circle Shipping Route – Eastern





MV *Simushir*

October 2014

- 135-metre (443-foot) cargo ship
- Everett, WA bound for Russia
- Lost power (broken oil heater) in gale force winds
- 472 tonnes bunker oil and 49 tonnes diesel
- 19 nm off Haida Gwaii



Kodiak ETS

Ketchikan ETS

British Columbia

Sandspit

Simushir
18Oct14

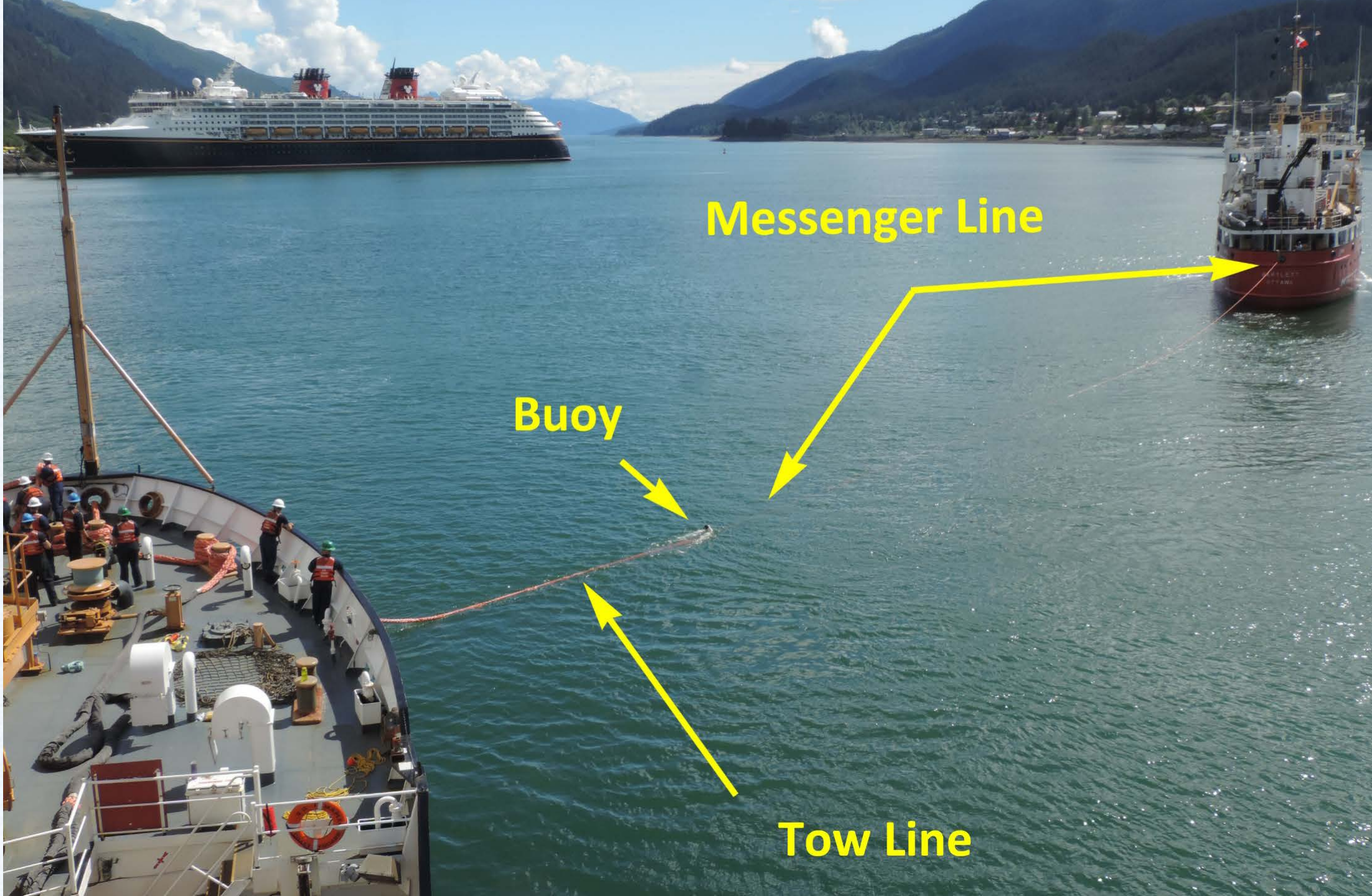
Neither ETS was used.
However....



2015 ETS Training Juneau

- CCG interest in the ETS is further increased by *Simushir*.
- USCG asked State of Alaska for use of a 10-inch ETS at the 2015 Buoy Tender Roundup in part as a selling point to allow CCG participation.
- ADEC and USCG formed a training team and the training was put on the program for the BTR.
- CCGS *Bartlett* steamed to Juneau and received training on towing using the ETS towing USCGC *Maple*.





Messenger Line

Buoy

Tow Line



ETS tow line rigged, commencing the tow



BARTLETT
OTTAWA



Oceans Protection Plan



- Presented to CANUSDIX in August, 2017.
- Launched November, 2016 – C\$1.5B in funding over 5 years
- **Emergency tow kits (ETKs)** on 25 of the Canadian Coast Guard's large vessels across Canada. **5 on West Coast & Arctic**
 - 3 sizes
 - CCG (Western Region) has just received a “prototype” ETK as a test unit in lieu of an off the shelf kit



Questions ?

