

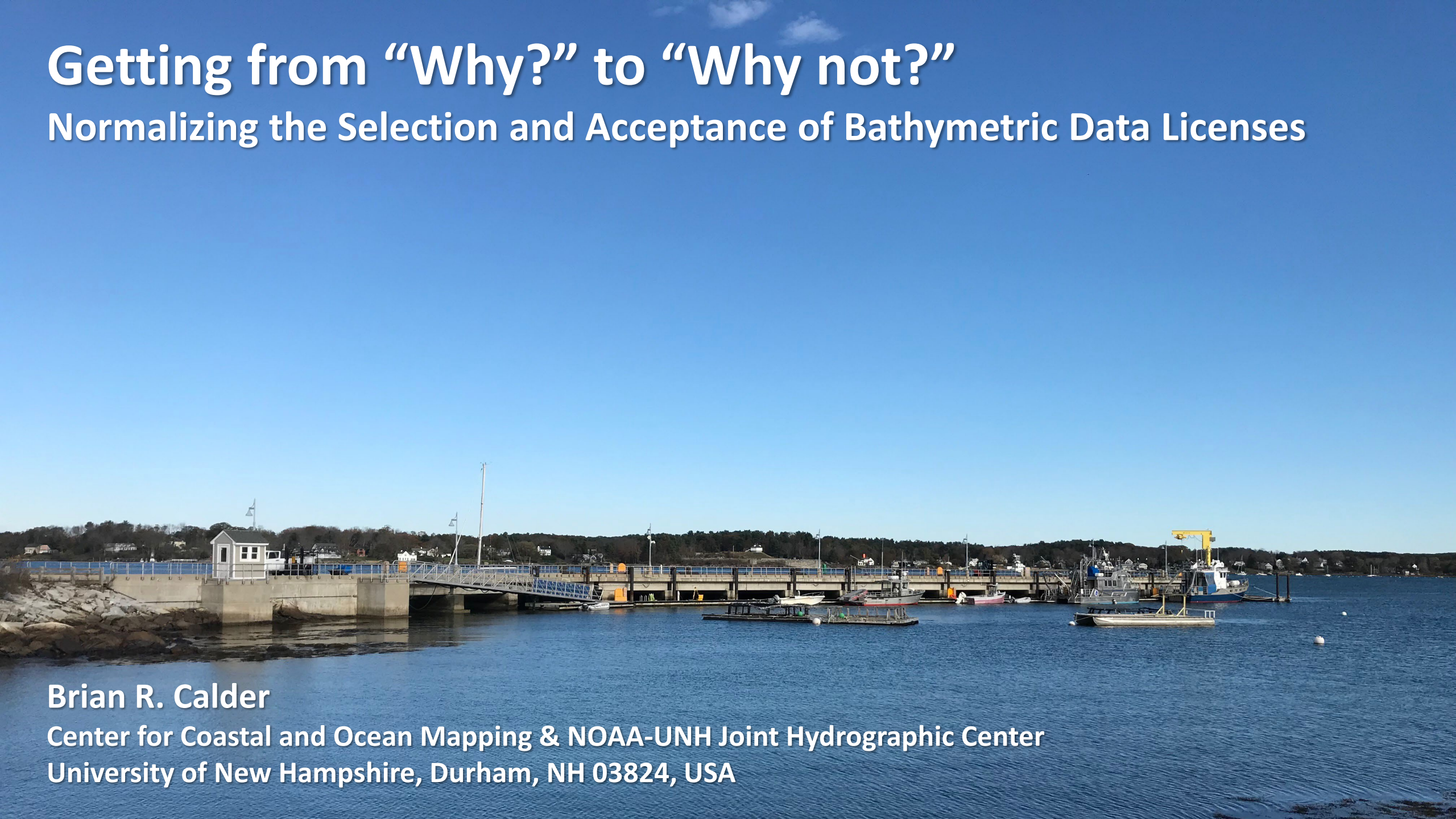
Getting from “Why?” to “Why not?”

Normalizing the Selection and Acceptance of Bathymetric Data Licenses

Brian R. Calder

Center for Coastal and Ocean Mapping & NOAA-UNH Joint Hydrographic Center

University of New Hampshire, Durham, NH 03824, USA



ccom.unh.edu

Center for Coastal and Ocean Mapping
Joint Hydrographic Center

About Us Research Education Outreach News & Events People Facilities Publications Partners

Home Research Law of the Sea

Law of the Sea

- All Reports
- All Downloads
- Arctic Ocean
- Atlantic Margin
- Images
- Downloads
- Cruise Reports
- Bering Sea - Beringian Margin
- Bering Sea - Bowers Ridge
- Gulf of Alaska Margin
- Gulf of Mexico - Florida Escarpment
- Gulf of Mexico - Sigsbee Escarpment
- Johnston Atoll, Pacific Ocean
- Line Islands, Kingman Palmyra, Pacific Ocean
- Mariana Trench and West Mariana Ridge, Pacific Ocean
- Mendocino Ridge, Pacific Ocean
- Necker Ridge, Pacific Ocean

Research Areas

- Autonomous Systems
- Chart of the Future
- Coastal Processes
- Data Processing
- Data Visualization
- Law of the Sea
- Lidar
- Seafloor Characterization
- Sonar Capabilities

Atlantic Margin

View Larger Interactive Map

ccom.unh.edu

Center for Coastal and Ocean Mapping
Joint Hydrographic Center

About Us Research Education Outreach News & Events People Facilities Publications Partners

Home Research Law of the Sea

Law of the Sea

- All Reports
- All Downloads
- Arctic Ocean
- Atlantic Margin
- Bering Sea - Beringian Margin
- Bering Sea - Bowers Ridge
- Gulf of Alaska Margin
- Gulf of Mexico - Florida Escarpment
- Gulf of Mexico - Sigsbee Escarpment
- Johnston Atoll, Pacific Ocean
- Line Islands, Kingman Palmyra, Pacific Ocean
- Mariana Trench and West Mariana Ridge, Pacific Ocean
- Mendocino Ridge, Pacific Ocean
- Necker Ridge, Pacific Ocean

Images

Downloads

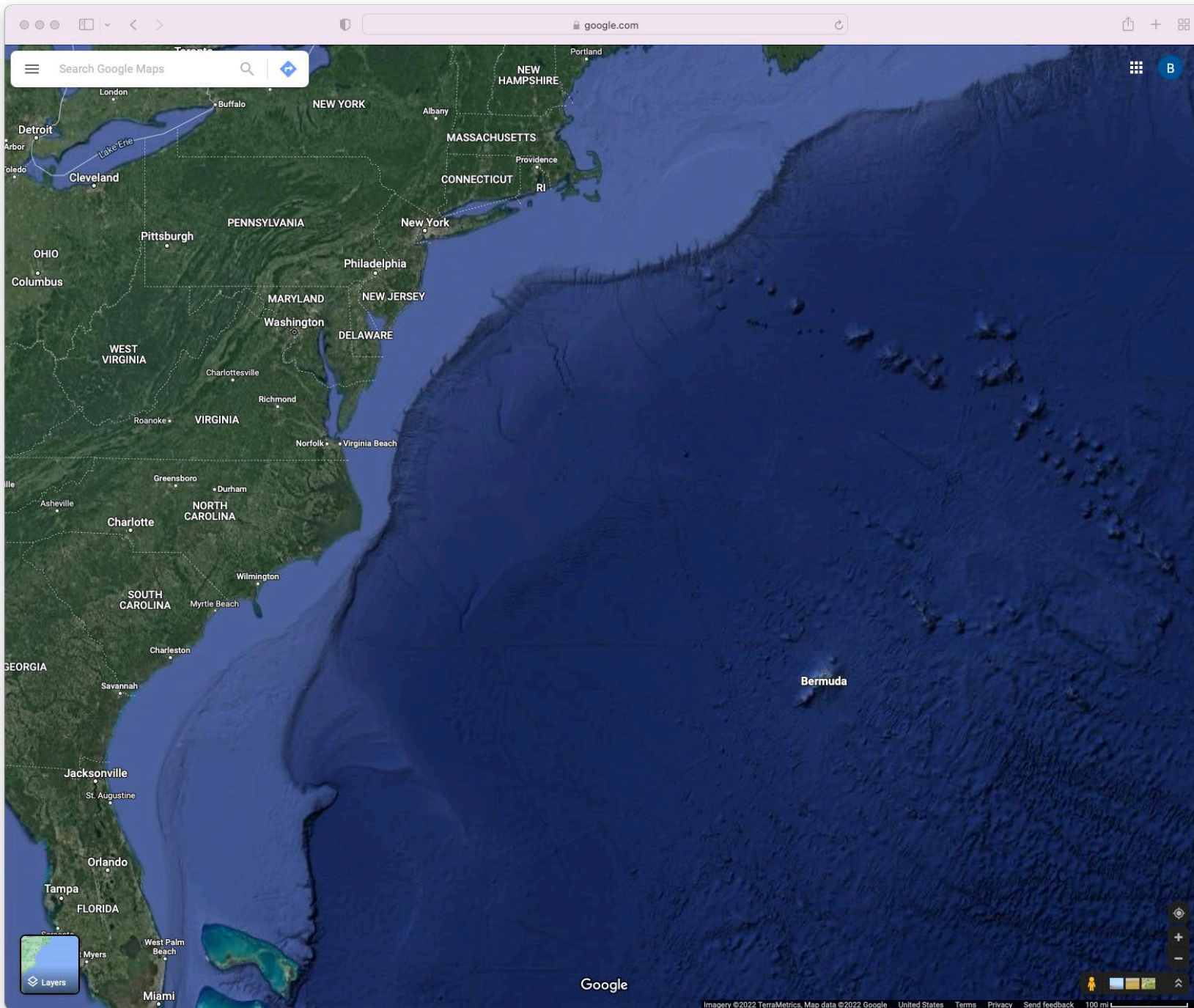
Cruise Reports

Research Areas

- Autonomous Systems
- Chart of the Future
- Coastal Processes
- Data Processing
- Data Visualization
- Law of the Sea
- Lidar
- Seafloor Characterization
- Sonar Capabilities

Necker Ridge, Pacific Ocean

View Larger Interactive Map of the Data



Search Google Maps

B

Google

CHRT SOFTWARE LICENSE AGREEMENT TERMS AND CONDITIONS

This agreement ("Agreement") is effective as of <DATE> ("Effective Date") between the University of New Hampshire ("UNH"), a body politic and corporate, organized and existing under the laws of New Hampshire, with an office at 35 Colovos Road, Gregg Hall, Durham, New Hampshire 03824, and <LICENSEE> ("LICENSEE"), a corporation having a principal place of business at <LICENSEE_ADDRESS>.

In consideration of the mutual premises and promises contained herein, the parties agree as follows:

I. Background

- 1.1 UNH's Center for Coastal and Ocean Mapping ("CCOM") has developed certain software, known as CHRT, with grant support from the U.S. Government.
- 1.2 UNH wishes to grant licenses to CHRT in order that it become available for public use and benefit.
- 1.3 LICENSEE has agreed to a closer relationship with UNH by participating in the Center for Coastal and Ocean Mapping Industrial Consortium [FOR NON-PROFIT, ADD: as an Associate Member].
- 1.4 LICENSEE wishes to acquire a license to use, develop, and market CHRT solely in the Licensed Field of Use of "hydrography/hydrographic data processing."

II. Definitions

- 2.1 "CHRT" means those source code and binary files as shown in Exhibit A known as CHRT, or CUBE with Hierarchical Resolution Technology, including the CHRT supporting documentation, and any other material relating to CHRT which will be provided to LICENSEE pursuant to this Agreement.
- 2.2 "UPDATES" mean any enhancements, improvements, and/or new releases of CHRT that UNH, at its option, may make from time to time. Hereinafter included in CHRT.
- 2.3 "Licensed Field of Use" means "hydrography and hydrographic data processing."
- 2.4 "Licensed Program" means those computer programs developed by LICENSEE in the Licensed Field of Use, including manuals and related documentation, which include a material portion of, or which are derived from, CHRT.
- 2.5 "Use Sublicense" means any agreement or arrangement between the LICENSEE and any other customer for use of Licensed Program.
- 2.6 "Licensed Royalties" means royalties due UNH by LICENSEE for a Licensed Program and royalties due LICENSEE by Sublicensee.

```
main.cpp - LoggerFirmware
EXPLORER
LOGGERFIRMWARE
  LogManager.h
  MemController.h
  N2kLogger.h
  NO183Logger.h
  NVMFile.h
  OTAUpdater.h
  ParamStore.h
  PointBridge.h
  README
  serial_number.h
  SerialCommand.h
  serialisation.h
  StatusLED.h
  SupplyMonitor.h
  WiFiAdapter.h
  lib
  LoggerFirmware
  platform-patches
  src
    BluetoothAdapter.cpp
    Configuration.cpp
    eMCCController.cpp
    HeapMonitor.cpp
    IMULogger.cpp
    LogManager.cpp
    main.cpp
    MemController.cpp
    N2kLogger.cpp
    NO183Logger.cpp
    NVMFile.cpp
    OTAUpdater.cpp
    ParamStore.cpp
    PointBridge.cpp
    serial_number.cpp
    SerialCommand.cpp
    serialisation.cpp
    StatusLED.cpp
    SupplyMonitor.cpp
    WiFiAdapter.cpp
  workspace.code-workspace
  test
  .gitignore
  Doxyfile
  platformio.ini
  OUTLINE
  TIMELINE
src > main.cpp > ...
1 /*!\file LoggerFirmware.ino
2  * \brief Arduino sketch for the NMEA2000 depth/position logger with network time
3  *
4  * This provides the Arduino-style interface to a NMEA2000 network data logger that's
5  * suitable for recording data for Volunteer Geographic Information collection at sea
6  * (in keeping with IHO Crowdsourced Bathymetry Working Group recommendations as defined
7  * in IHO publication B-12).
8  *
9  * Copyright (c) 2019, University of New Hampshire, Center for Coastal and Ocean Mapping.
10 *
11 * Permission is hereby granted, free of charge, to any person obtaining a copy of this software
12 * and associated documentation files (the "Software"), to deal in the Software without restriction,
13 * including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense,
14 * and/or sell copies of the Software, and to permit persons to whom the Software is furnished
15 * to do so, subject to the following conditions:
16 *
17 * The above copyright notice and this permission notice shall be included in all copies or
18 * substantial portions of the Software.
19 *
20 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
21 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
22 * FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
23 * OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
24 * WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
25 * OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
26 */
27
28 #define ESP32_CAN_TX_PIN GPIO_NUM_16
29 #define ESP32_CAN_RX_PIN GPIO_NUM_17
30
31 #include <NMEA2000_CAN.h> /* This auto-generates the NMEA2000 global for bus control */
32 #include "N2kLogger.h"
33 #include "serial_number.h"
34 #include "SerialCommand.h"
35 #include "StatusLED.h"
36 #include "MemController.h"
37 #include "IMULogger.h"
38 #include "SupplyMonitor.h"
39 #include "Configuration.h"
40 #include "HeapMonitor.h"
41
42 /// Hardware version for the logger implementation (for NMEA2000 declaration)
43 #define LOGGER_HARDWARE_VERSION "1.0.0"
44
45 const unsigned long TransmitMessages[] PROGMEM={0}; ///< List of messages the logger transmits (null set)
46 const unsigned long ReceiveMessages[] PROGMEM =
47 {
48   126992UL /*System Time */,
49   127257UL /* Attitude */,
50   128267UL /* Water Depth */,
51   129026UL /* Course and Speed Over Ground */,
52   129029UL /* GNSS Position */,
53   130311UL /* Environmental Parameters */,
54   130312UL /* Temperature */,
55   130313UL /* Humidity */,
56   130314UL /* Pressure */,
57   130316UL /* Extended Temperature */,
58 }
```

The University of New Hampshire through the Center for Coastal and Ocean Mapping/Joint Hydrographic Center (“UNH/CCOM-JHC”) makes this data and information available on its web site to enhance public knowledge and promote education. UNH/CCOM-JHC, however, cannot guarantee accuracy and reliability of this data. UNH/CCOM-JHC also retains the right to change any content on its website without prior notice. Neither UNH nor any agency thereof, nor any contractor, agent, or subcontractor, makes any warranty, express or implied, of completeness, accuracy, or reliability of the data or information on privately owned navigational systems, or that they are suitable for navigation, or assumes no liability for the misuse of, or the inability to use this web site and/or the materials contained on the web site. UNH/CCOM-JHC assumes no liability for any damages or loss of any kind caused by any errors or omissions in the data contained on this web site. All materials that appear on the UNH/CCOM-JHC web site are distributed and transmitted “as is,” without warranties of any kind, either express or implied, and subject to the terms and conditions stated in this disclaimer.

**If anything goes wrong,
it's not our fault**

The content on this website, including but not limited to the Grid Generations, are the Copyright of the University of New Hampshire © 2009 The University of New Hampshire and its Center for Coastal and Ocean Mapping/Joint Hydrographic Center, Durham, NH 03824.

Any redistribution or reproduction of part or all of the contents in any form is granted with the following restrictions:

You must attribute ownership of the copyrighted contents of this website to the rightful owner, the University of New Hampshire.

The UNH Center for Coastal and Ocean Mapping operates in partnership with the National Oceanic and Atmospheric Administration.

Plaintif

Judge

Defendant

Litigation

Lawyer



- Clear communication of allowed uses to the end user with minimum ambiguity
- Well-known agreement terms, already analyzed/pre-approved
- Machine-readable description of license
- Data-encoded license terms to travel with data products

This work is licensed under the Creative Commons CC0 license
(<https://creativecommons.org/publicdomain/zero/1.0/legalcode>)

Awareness

Commonality

Support

Reinforcement

Brian R. Calder (brc@ccom.unh.edu, +1-603-862-0526)

Research Professor & Associate Director

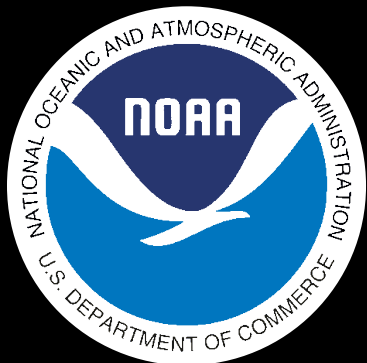
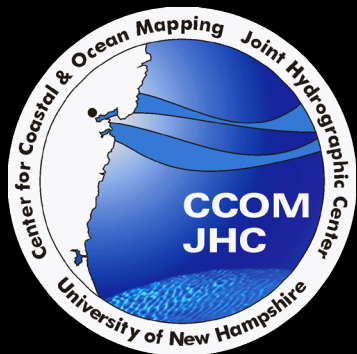
Center for Coastal and Ocean Mapping & NOAA-UNH Joint Hydrographic Center

Chase Ocean Engineering Lab, University of New Hampshire

24 Colovos Road

Durham, NH 03824

USA



**Sponsored by NOAA Grant NA20NOS4000196
“Continuation of the Joint Hydrographic Center”**

