

	C-NavX1 Firmware Release Notice CNAV-RN-0006, Rev H	13 May 2026	
		Version 1.14.32	

RELEASE NOTES

RELEASE NOTICE

This is the May 2026 release notice for **Oceaneering® C-NavX1** GNSS receiver firmware version 1.14.32

REVISION HISTORY

Revision	Release Date	Change Details	Author
H	13 - May - 2026	v1.14.32 firmware release	Ben Dean
G	17 - Nov - 2025	v1.13.39 firmware release	Ben Dean
F	04 - Mar - 2025	v1.10.44 firmware release	Ben Dean
E	12 - Aug - 2024	v1.0.8.1 firmware release	Ben Dean
D	6 - Feb - 2024	v1.0.6.5 firmware release	Ben Dean
C	02 - Nov - 2023	v1.0.5.1 firmware release	Ben Dean
B	22 - Sep - 2023	v1.0.5.1 firmware release in new global format	Ben Dean
A	10 - Aug - 2023	v1.0.5.1 firmware release	Ben Dean

RELEASE AUTHORIZATION

Title	Signature	Date
Russel Morton	<i>Russell Morton</i>	13 - Mar - 2026

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1 OVERVIEW

This is the release notice for C-NavX1® GNSS receiver firmware version 1.14.32.

This document describes the changes, improvements and the new features added since the previous formal release of version 1.13.39

2 REFERENCES

Document Number	Document Title
CNAV-MAN-061 Rev B	C-NavX1 GNSS Receiver User Manual.
CNAV-MAN-062 Rev D	C-NavX1 Firmware Update Installation Procedure.
CNAV-MAN-063 Rev C	C-Nav X1 & C-Nav X3 RINEX Manual.
CNAV-BUL-0002	C-NavX1 Age of Correction Data Guidance.

3 IMPORTANT NOTES

- This firmware will only function in C-NavX1® GNSS receivers.
- Update the receiver with a consistent ensemble of firmware.
- Extract the ZIP file contents to a new folder to ensure that all the correct firmware and documentation are in one location and there is no mixing of old and new firmware.
- Always install the new firmware with the antenna connected and, in an area, where the receiver can track satellites.

4 FIRMWARE CHANGES / IMPROVEMENTS

- Added RTCMv3 RTK Rover Support. Serial or Ethernet message input only.
- Added C-NAV LEO Service Expiry Support. By using SBD, the user can now see the C-NAV LEO service expiry date and number of days remaining.
- 1PPS default increased to 10ms.
- Added additional NMEA GGA Age of Correction (AoC) Scaling option. Users can now scale (reduce) the AoC by a factor of 10 or 60.
- User configuration preserved after firmware upgrade (e.g. baud rates, scheduled message outputs).
- Geoid choices that are not implemented have been removed from the drop-down menu in C-Controller.

5 FIRMWARE ZIP FILE CONTENTS

This C-NavX1® GNSS receiver firmware is distributed in a compressed ZIP file. The ZIP file includes the following contents:

Filename	Version	Comments
1.14.32.img.gz	1.14.32	Zipped firmware image
CNAV-MAN-062 (C-NavX1 Firmware Update Installation Procedure)	D	Firmware loading instructions
CNAV-RN-0006 (C-NavX1 Firmware Release Notice)	H	This document
CNAV-MAN-063 (C-NavX1/C-NavX3 RINEX Procedure)	C	RINEX instructions
C-Nav Firmware Updater	1.6.1.5	Windows application for firmware loading

6 SOFTWARE UPDATE APPLICATION

This firmware has been tested and is intended to be used with the following versions of controller:

Software	Version	Tick off
C-Monitor QA/QC Software	10.4.0 and newer	<input checked="" type="checkbox"/>
C-NaviGator	10.4.0 and newer	<input checked="" type="checkbox"/>
C-Scape	10.4.0 and newer	<input checked="" type="checkbox"/>

Updates located internally on SharePoint C-Nav Software / Released Versions, in the corresponding software folders. At time of release externally on the public facing website.

7 KNOWN ISSUES

- Only one controller can be connected on COM ports and one on ETH ports simultaneously.
- For C-NavX1 S/N 0229 or lower, there is a known error when restarting the C-NavX1 with the USB connected to a host whereby the C-NavX1 will not boot up. (USB needs to be disconnected prior to restart).
- VTG output copies the CMG (true) value to the CMG Magnetic value. The CMG magnetic should be a null field.
- Overloading any serial communications port (COM1 – COM4) >100% locks up I/O on all ports.
- C-Nav corrections over the internet first implementation doesn't have any status information to display.
- Receiver network settings are not retained during firmware updates.
- No NTRIP Client support. An NTRIP Client (for example BKG NTRIP Client) can be used to stream RTK data from the internet and send it out on a serial port to the C-NAVX3 Rover.