



Technical Circular

No.: 014/2024

Date: 14th August 2024

Subject: Republic of Marshall Islands MSA No. 07-24 Reg. Global Positioning System (GPS) Rollover Event-2024.

1. On 08th September 2024, a GPS rollover event is scheduled to take place which may cause some GPS units to show the wrong position and the incorrect date.
2. The GPS rollover occurs when the system resets its week number counter every 19.6 years which may cause some GPS units to produce data that is 19.6 years in the past, generating errors in both the GPS position and date.
3. The following Japan Radio Company (JRC) equipment models may be affected by the upcoming GPS rollover event and may require either a software upgrade or replacement:

JRC JUE-500 (Inmarsat Fleet Broadband FB500)	JRC JLR-4340 (GPS Receiver)
JRC JLR-7500 (GPS Navigator)	JRC JLR-20 (GPS Compass)
JRC JLR-7600 (GPS Navigator)	JRC JLR-30 (GPS Compass)
JRC JLR-4331W (GPS Receiver)	

4. In this regard, Marshall Islands Administration has issued Marine Safety Advisory No.07-24 advising following to vessel owners/ operators and masters;
 - a. Vessel owner/ operator to contact their GPS manufacturers to determine if the equipment onboard their vessels will require a service technician to update the software and rectify the GPS equipment issue at the first available opportunity, but no later than 30 August 2024.
 - b. Vessel masters to make appropriate entries in the GMDSS and Deck Log Book and keep boarding pilots and port State control advised if the discrepancy exists on their vessel.
5. Vessel owner/ operators and masters are advised to be guided by above.

Encl.:

1. RMI Marine Safety Advisory No. 07 of 2024.



. This Technical Circular and the material contained in it is provided only for the purpose of supplying current information to the reader and not as an advice to be relied upon by any person.
. While we have taken utmost care to be as factual as possible, readers/ users are advised to verify the exact text and content of the Regulation from the original source/ issuing Authority.

Whilst the utmost care has been taken in the compilation of the Technical Information, neither Indian Register of Shipping, its affiliates and subsidiaries if any, nor any of its directors, officers, employees or agents assume any responsibility and shall not be liable to any person for any loss, damage or expense caused in any manner whatsoever by reliance on the information in this document.

Republic of the Marshall Islands

MARITIME ADMINISTRATOR

11495 COMMERCE PARK DRIVE, RESTON, VIRGINIA 20191-1506
TELEPHONE: +1-703-620-4880 FAX: +1-703-476-8522
EMAIL: maritime@register-iri.com WEBSITE: www.register-iri.com

MARINE SAFETY ADVISORY No. 07-24

To: Owners/Operators, Masters, Nautical Inspectors, Recognized Organizations

Subject: 2024 GLOBAL POSITIONING SYSTEM ROLLOVER EVENT

Date: 5 August 2024

A Global Positioning System (GPS) time/date rollover event is scheduled to take place on 8 September 2024. The GPS rollover occurs when the system resets its week number counter every 19.6 years which may cause some GPS units to produce data that is 19.6 years in the past, generating errors in both the GPS position and date.

The following Japan Radio Company (JRC) equipment models may be affected by the upcoming GPS rollover event and may require either a software upgrade or replacement:

- JRC JUE-500 (Inmarsat Fleet Broadband FB500)
- JRC JLR-7500 (GPS Navigator)
- JRC JLR-7600 (GPS Navigator)
- JRC JLR-4331W (GPS Receiver)
- JRC JLR-4340 (GPS Receiver)
- JRC JLR-20 (GPS Compass)
- JRC JLR-30 (GPS Compass)

The Republic of the Marshall Islands Maritime Administrator (the “Administrator”) requests that:

1. Vessel owners and operators:

- contact their GPS manufacturers to determine if the equipment onboard their vessels will require a service technician to update the software or replace the equipment; and
- rectify the GPS equipment issue at the first available opportunity, but no later than 30 August 2024.

2. Vessel Masters:

- make appropriate entries in the Global Maritime Distress and Safety System and Deck Logbooks; and
- keep boarding pilots and port State control advised if the discrepancy exists on their vessels.

The Administrator will issue dispensation letters, as necessary, for GPS units malfunctioning as the result of the rollover event. Please contact the Administrator at radio@register-iri.com for a dispensation letter or additional information.

This MSA is evaluated annually by the Administrator and expires one year after its issuance or renewal unless otherwise noted, superseded, or revoked.