



NOTA MAKLUMAT DAN PANDUAN MARIN
MARINE INFORMATION AND GUIDANCE NOTE

NMPM 01/2019

JABATAN LAUT MALAYSIA

Marine Department of Malaysia

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KEMUNGKINAN MASALAH GPS AKIBAT *WEEK COUNTER ROLL OVER* PADA 6 APRIL 2019

POTENTIAL GPS PROBLEMS DUE TO WEEK COUNTER ROLL OVER ON 6 APRIL 2019

Pemakluman kepada pemilik kapal, pengurus kapal, nakhoda, pegawai-pegawai kapal, krew kapal dan intitusi latihan maritim

Notification to ship owners, ship managers, masters, ship officers, ship crews and maritime training institutions

1 Pekeliling Organisasi Maritim Antarabangsa (IMO) SN.1/Circ.182/Add.1 bertarikh 2 April 2019 adalah dirujuk.

1 The International Maritime Organization (IMO) circular SN.1/Circ.182/Add.1 dated 2 April 2019 is referred.

2 Pelaut di nasihat akan bahaya menggunakan penerima isyarat GPS jenis model lama.

2 Mariners are advised of the dangers of using the earlier version of GPS receivers effective from 6 April 2019.

3 Pekeliling IMO di lampirkan bersama untuk penerangan lanjut

3 The IMO circular is attached which is self explanatory.

Ketua Pengarah Laut

Director General of Marine

Tarikh / Date: 3 April 2019

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SN.1/Circ.182/Add.1
2 April 2019

**RECOGNITION OF THE GLOBAL POSITIONING SYSTEM
STANDARD POSITIONING SERVICE (GPS-SPS) AS A COMPONENT OF
THE WORLD-WIDE RADIONAVIGATION SYSTEM**

Potential GPS problems due to week counter roll over on 6 April 2019

- 1 At the request of the Government of the United States, the following information is brought to the attention of Member States and international organizations.
- 2 Reference is made to *Recognition of the Global Positioning System Standard Positioning Service (GPS-SPS) as a component of the World-wide radionavigation system* (SN/Circ.182, dated 13 June 1996). The GPS-SPS is undergoing the week counter roll over on 6 April 2019, which may affect some of the outdated GPS receivers.
- 3 The GPS system transmits time to GPS receivers using a format of time and weeks after the start date of 6 January 1980. The data field in the navigational message sent by GPS satellites containing the number of weeks after the start date is limited to a maximum of 1023 weeks. When the GPS system reaches week 1024, the system will revert back to week zero.
- 4 Some GPS receivers are known to be unable to make the transition from week 1023 to 1024. If the GPS receiver is outdated or lacks proper updates, the receiver will revert to reading the week zero as August 1999. During this time the internal clocks of these GPS receivers will experience a lack of absolute reference and may give the wrong time and position or may lock up permanently.
- 5 Some of these GPS receivers are repairable with upgrades and others will become unusable. Users are advised to check with their GPS manufacturer regarding the status of their receiver.
- 6 Member States are invited to bring this information to the attention of all concerned.