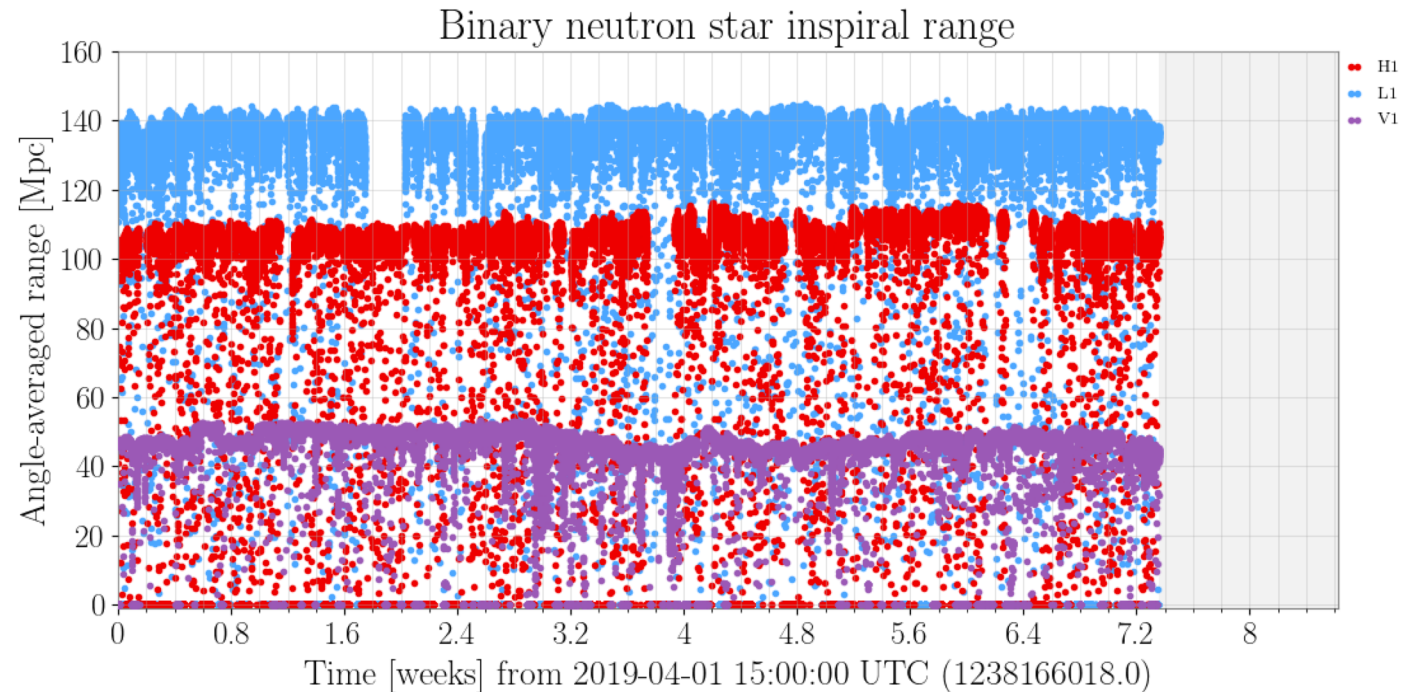


LIGO-Virgo status

Lisa Barsotti, Keita Kawabe, Nicolas Leroy, Brian O'Reilly, Alessio Rocchi

Broad picture

- Small (few hours) commissioning breaks happened (and will happen again) to fix problems that can impact the stability or the sensitivity



- Keep the same schedule as announced during last call for maintenance and calibration period:
 - Tuesday maintenance: 6-10 UTC for V1, 14-18 UTC for L1 and 15-19 UTC for H1 (with seasonal changes due to summer time);
 - Calibration on Wednesday: 15-19 UTC @ V1 and 20-23 UTC @ LIGO
 - At least one instrument tries to remain online at any given time.

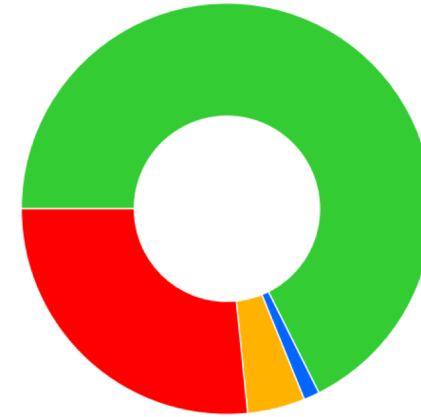
Duty cycle



Network duty factor

[1238166018-1243382418]

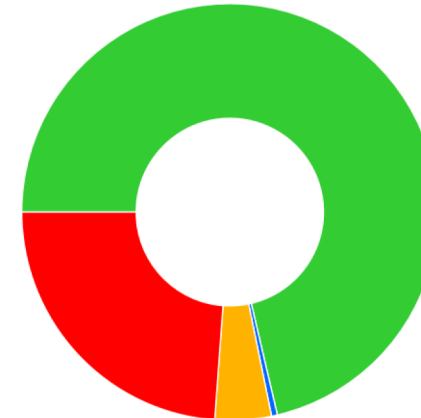
- Triple interferometer [44.0%]
- Double interferometer [37.9%]
- Single interferometer [16.7%]
- No interferometer [1.4%]



H1 operational state

[1238166018-1243382418, state: all]

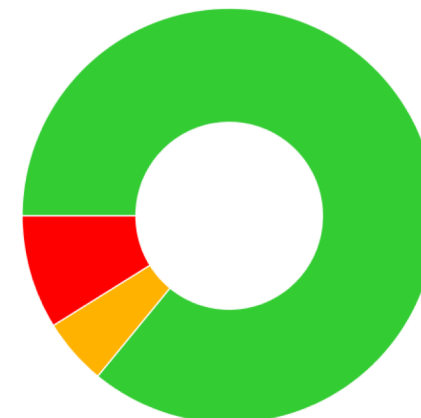
- Observing [67.6%]
- Ready [1.2%]
- Locked [4.5%]
- Not locked [26.6%]



L1 operational state

[1238166018-1243382418, state: all]

- Observing [71.3%]
- Ready [0.5%]
- Locked [4.4%]
- Not locked [23.8%]



Virgo operational state

[1238166018-1243382418, state: all]

- Observing [85.9%]
- Locked [5.2%]
- Not locked [8.9%]

Summary

- We continue to have good performance of the network with 78 % of the time with at least 2 interferometers and only 1.4 % of time without any interferometer
- Number of alerts is growing and will be discussed later
- As mentioned during last call, we may have a longer break during autumn, still in discussion