

Summary of Candidates in O3B

LVEM Call
Nov 21, 2019

Summary (7 candidates since O3B start)

Astrophysical:

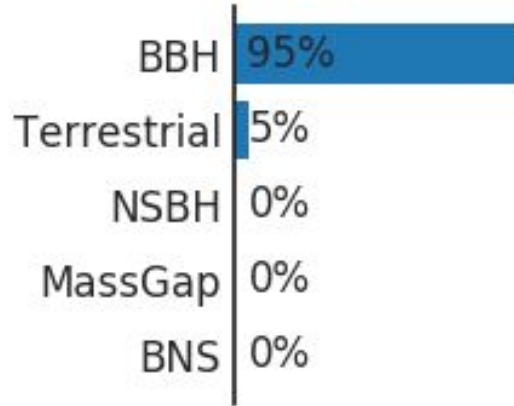
- [S191109d](#)
- [S191105e](#)

Retractions:

- [S191110x](#)
- [S191110af](#)
- [S191117j](#)
- [S191120aj](#)
- [S191120at](#)

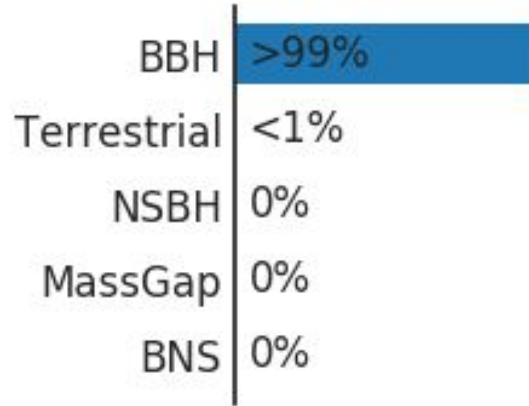
S191105e & S191109d

High astrophysical probabilities



S191105e

Updated skymap sent



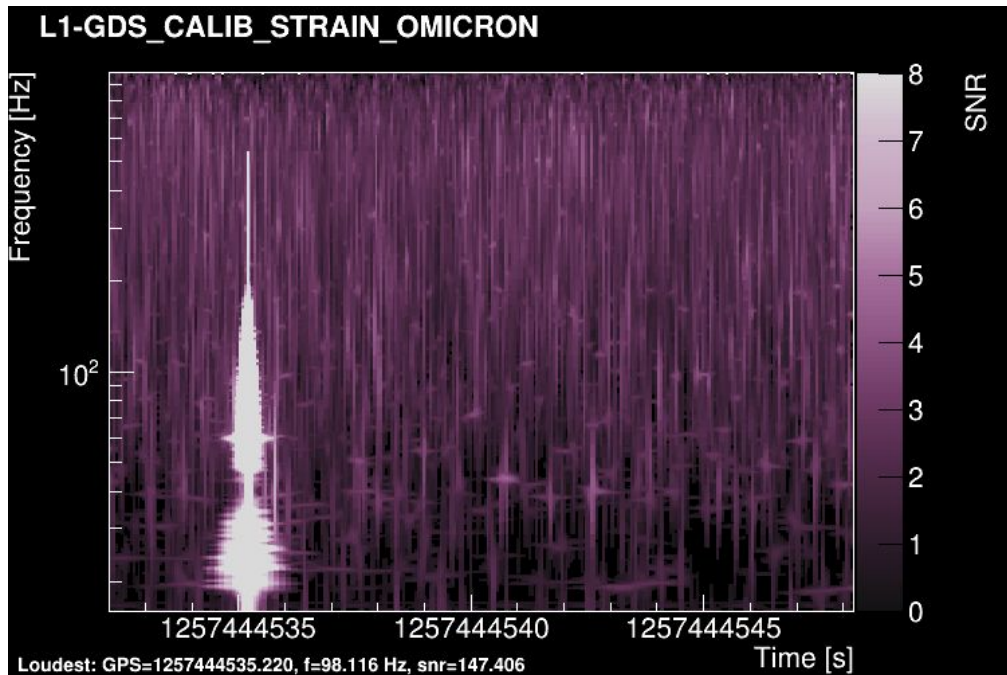
S191109d

Waiting for offline
PE results

Retractions

S191110x

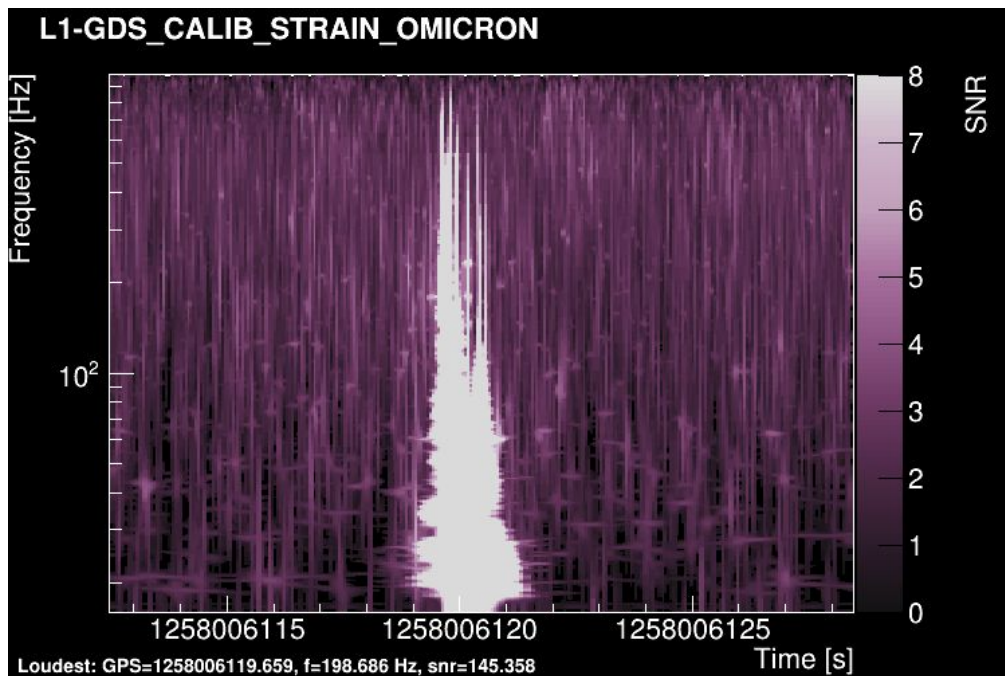
- Loud glitch in L1.
- Low SNR in H1 and V1.
- Glitches were not gated automatically.
- Being looked into by detector characterization team.



Retractions

S191117j

- Loud glitch in L1.
- V1 not in observing mode.
- Low SNR in H1

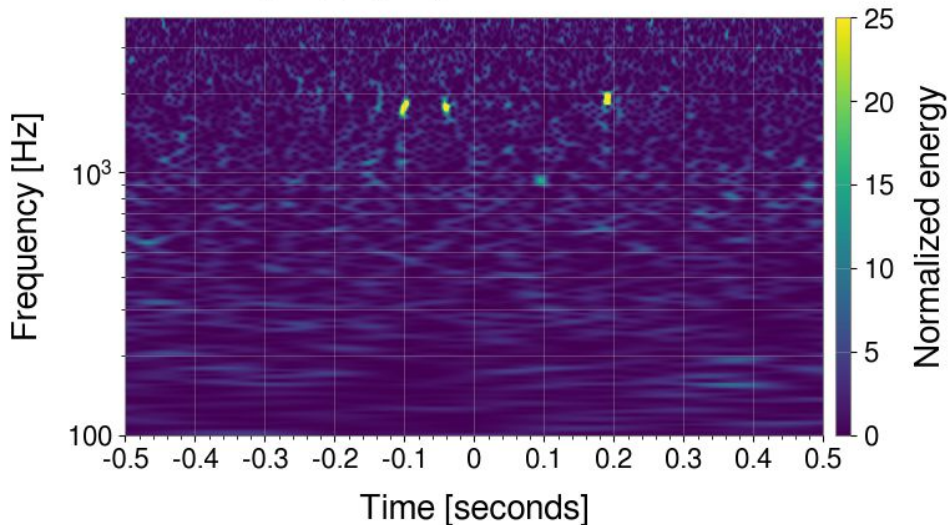


Retractions

S191110af

- Unmodeled burst candidate; central freq. $\sim 1700\text{Hz}$ @ FAR ~ 1 per 12 years.
- Instrumental transients in one of veto channels for H1 (PZT monitor) found to be consistent in time and frequency of $h(t)$.
- FAR ~ 0.5 per year for limited stretch of data centered at the time of event.
- Selection threshold is only met in HLV analysis but not HL.

H1 : OMC-PZT1_MON_AC_OUT_DQ at 1257462422.180 with Q of 65.8



Retractions

S191120aj & S191120at

- Both caused due to glitches in L1.
- Non-stationary noise affects the data, which is being investigated.

