

# Status on Public Alerts

LIGO-Virgo Low-latency Analysis Group  
July 18, 2019

# GraceDB — Gravitational-Wave Candidate Event Database

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**Latest — as of 17 July 2019 22:40:58 UTC**

Test and MDC events and superevents are not included in the search results by default; see the [query help](#) for information on how to search for events and superevents in those categories.

Query:

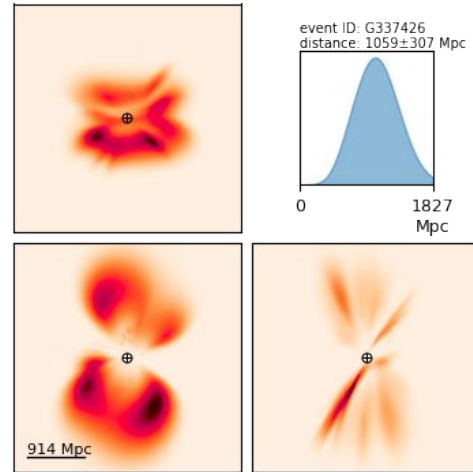
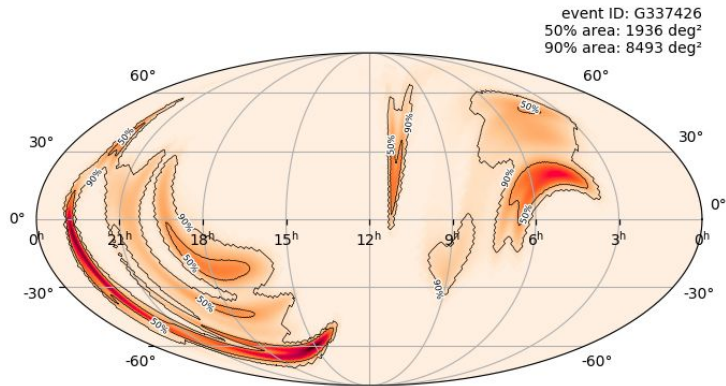
Search for:

UID	Labels	t_start	t_0	t_end	FAR (Hz)	UTC Created
<a href="#">S190707q</a>	<a href="#">ADVOK</a> <a href="#">DQOK</a> <a href="#">SKYMAP_READY</a> <a href="#">PASTRO_READY</a> <a href="#">EMBRIGHT_READY</a> <a href="#">GCN_PRELIM_SENT</a> <a href="#">PE_READY</a>	1246527223.118398	1246527224.181226	1246527225.284180	5.265e-12	2019-07-07 09:33:44 UTC
<a href="#">S190706ai</a>	<a href="#">ADVOK</a> <a href="#">DQOK</a> <a href="#">SKYMAP_READY</a> <a href="#">EMBRIGHT_READY</a> <a href="#">PASTRO_READY</a> <a href="#">GCN_PRELIM_SENT</a> <a href="#">PE_READY</a>	1246487218.321541	1246487219.344727	1246487220.585938	1.901e-09	2019-07-06 22:26:57 UTC
<a href="#">S190701ah</a>	<a href="#">ADVOK</a> <a href="#">DQOK</a> <a href="#">SKYMAP_READY</a> <a href="#">EMBRIGHT_READY</a> <a href="#">PASTRO_READY</a> <a href="#">GCN_PRELIM_SENT</a> <a href="#">PE_READY</a>	1246048403.576563	1246048404.577637	1246048405.814941	1.916e-08	2019-07-01 20:33:24 UTC
<a href="#">S190630ag</a>	<a href="#">ADVOK</a> <a href="#">DQOK</a> <a href="#">SKYMAP_READY</a> <a href="#">PASTRO_READY</a> <a href="#">EMBRIGHT_READY</a> <a href="#">GCN_PRELIM_SENT</a> <a href="#">PE_READY</a>	1245955942.175325	1245955943.179550	1245955944.183184	1.435e-13	2019-06-30 18:52:28 UTC

- Modelled (Compact binary) and unmodeled (burst) pipelines are running in low-latency.
- Identification of candidates according to false-alarm-rate (FAR) criterion.
- <https://gracedb.ligo.org/latest/>
  - a. Four BBH observations.
  - b. One single IFO detection

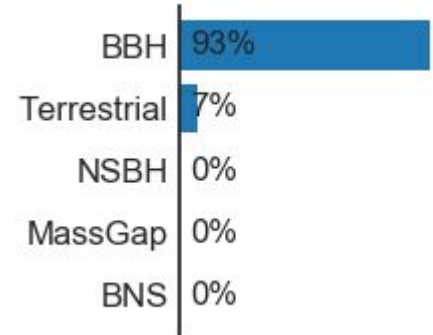
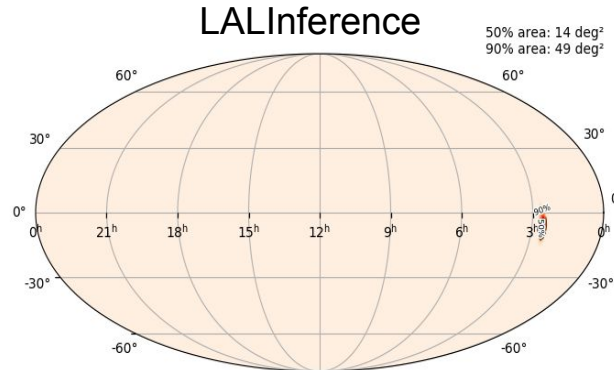
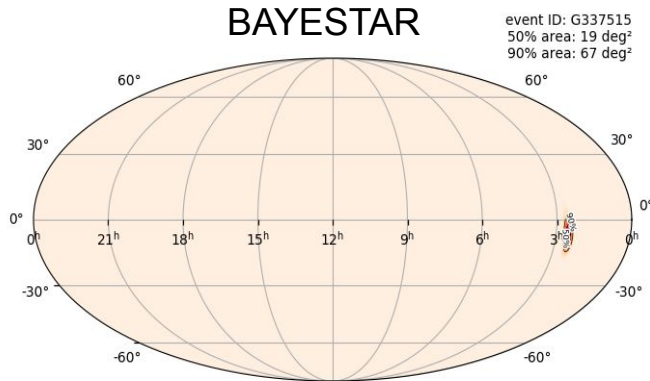
# Event summary: S190630ag

- <https://gracedb.ligo.org/superevents/S190630ag/>
- <https://gcn.gsfc.nasa.gov/gcn3/24922.gcn3>
- [https://gcn.gsfc.nasa.gov/notices\\_I/S190630ag.lvc](https://gcn.gsfc.nasa.gov/notices_I/S190630ag.lvc)
- Detected in Livingston, SNR at Virgo was subthreshold, Hanford was not running



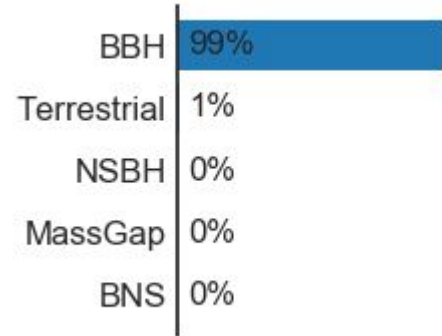
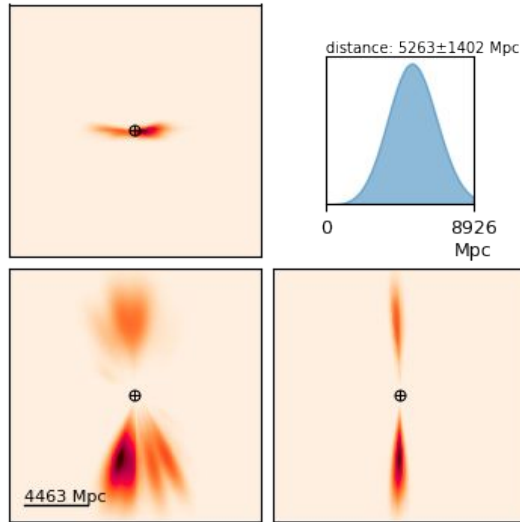
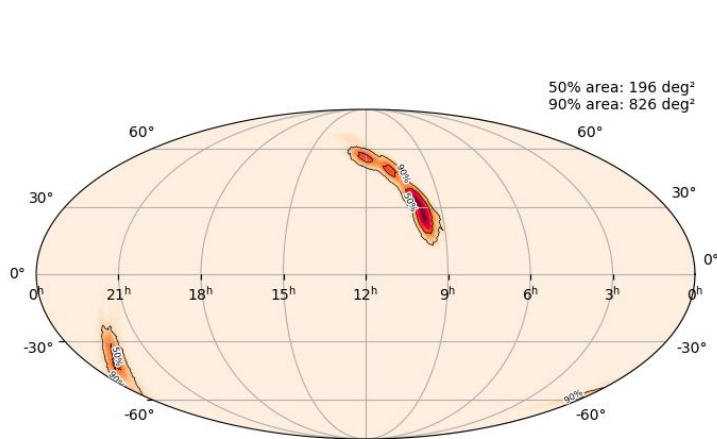
# Event summary: S190701ah

- <https://gracedb.ligo.org/superevents/S190701ah/>
- [Initial circular](#), [Update circular](#)
- [https://gcn.gsfc.nasa.gov/notices\\_I/S190701ah.lvc](https://gcn.gsfc.nasa.gov/notices_I/S190701ah.lvc)
- Well localized (90% CI = 67 sq. deg). PE further improved it (49 sq. deg)
- BBH, distance: ~1850 Mpc



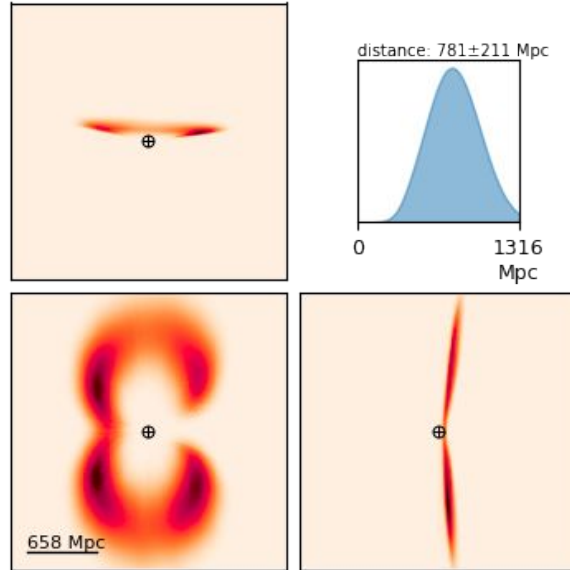
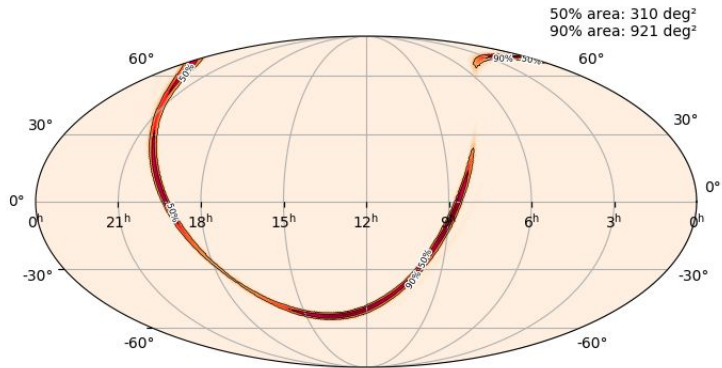
# Event summary: S190706ai

- <https://gracedb.ligo.org/superevents/S190706ai/>
- [Initial circular](#), [Update circular](#)
- [https://gcn.gsfc.nasa.gov/notices\\_I/S190706ai.lvc](https://gcn.gsfc.nasa.gov/notices_I/S190706ai.lvc)
- BBH. This is the farthest source LVC has observed (>5 Gpc).



# Event summary: S190707q

- <https://gracedb.ligo.org/superevents/S190707q/>
- [Initial circular](#), [Update circular](#)
- [https://gcn.gsfc.nasa.gov/notices\\_I/S190707q.lvc](https://gcn.gsfc.nasa.gov/notices_I/S190707q.lvc)
- Virgo was not in science mode



# Outlook

- While sending update for sky-map, the name in the GCN notice (email and socket format) was truncated. This is being fixed.
- For S190701ah, uploaded LALInference sky-map had to be made public manually. This is being automated right now.
- Sky-map updates are provided more regularly now. In only one case (S190630ag) we have failed to provide the sky-map. We will send an update on that shortly. Trying settle to a pattern of sending regular updates.
- A new [LVC public alert page](#) is now online
- LIGO-Virgo **Public Alerts User Guide & Support**
  - **Feedback or requests** for information to: [emfollow-userguide@support.ligo.org](mailto:emfollow-userguide@support.ligo.org)
- Mailing list
  - Please sign up to the **public OpenLVEM mailing list**; anyone can subscribe
  - Instructions at <https://wiki.gw-astronomy.org/OpenLVEM>