

# GRAVITATIONAL WAVE MERGER DETECTIONS

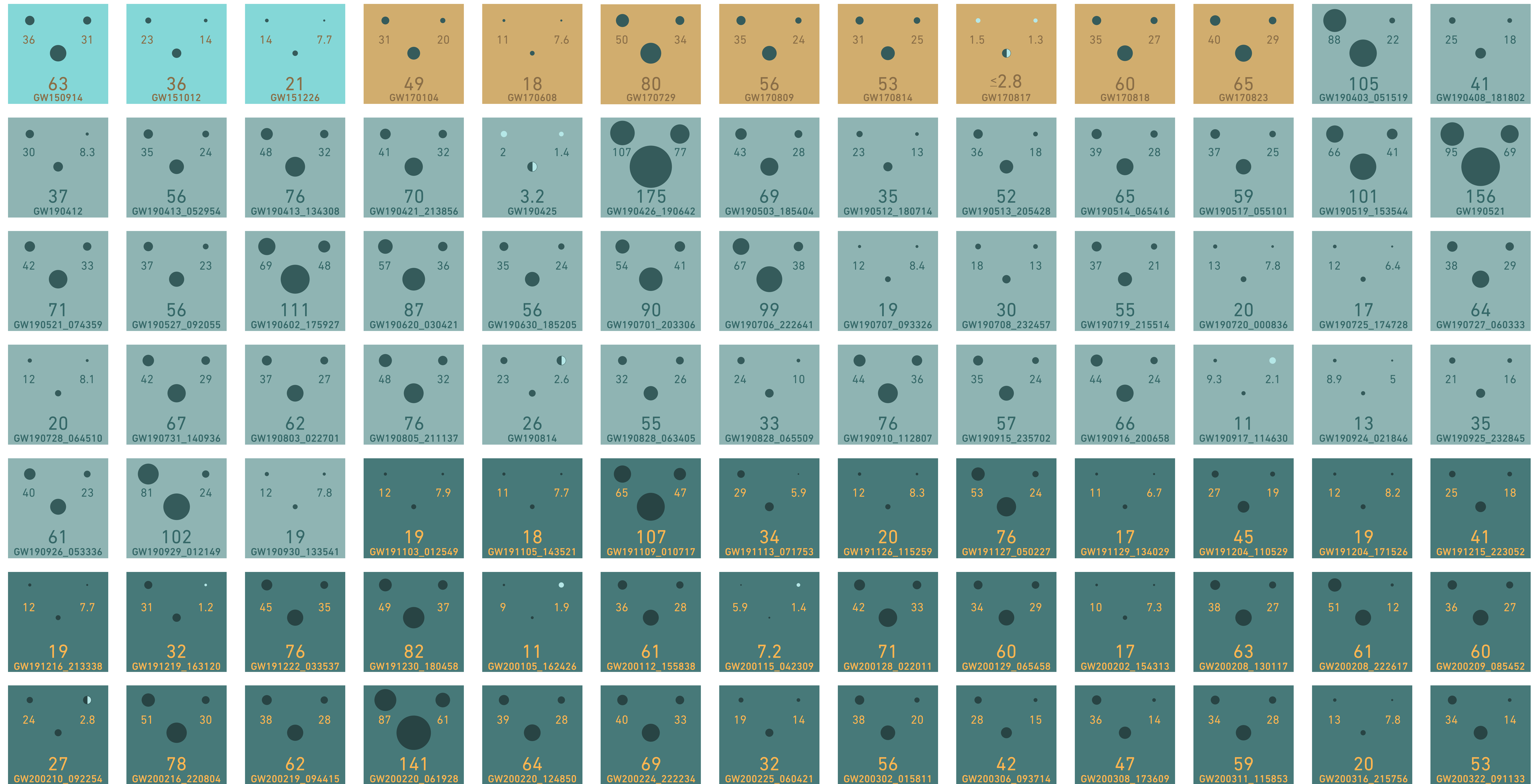
→ SINCE 2015

OBSERVING RUN

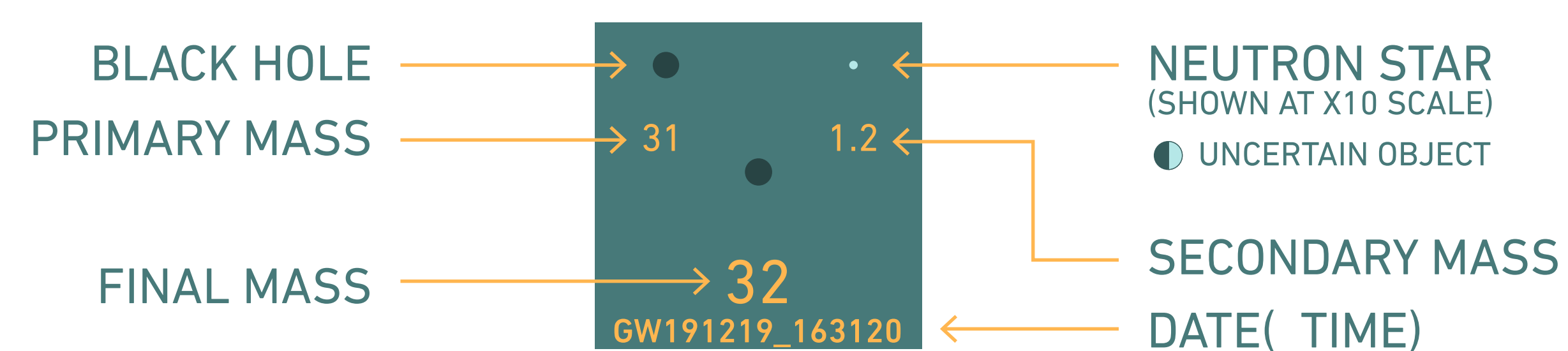
01 2015-2016

02 2016-2017

03a+b 2019-2020



KEY



UNITS ARE SOLAR MASSES  
 1 SOLAR MASS =  $1.989 \times 10^{30}$ kg

Note that the mass estimates shown here do not include uncertainties, which is why the final mass is sometimes larger than the sum of the primary and secondary masses. In actuality, the final mass is smaller than the primary plus the secondary mass.

The events listed here pass one of two thresholds for detection. They either have a probability of being astrophysical of at least 50%, or they pass a false alarm rate threshold of less than 1 per 3 years.

