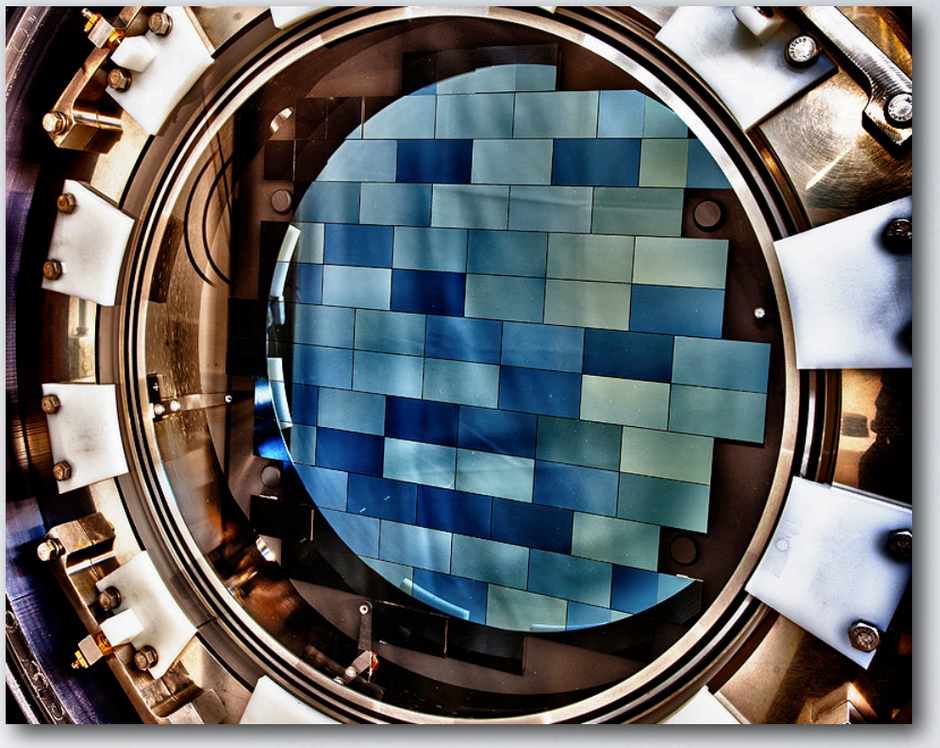
SOUTHERN SKY GW FOLLOWUPS

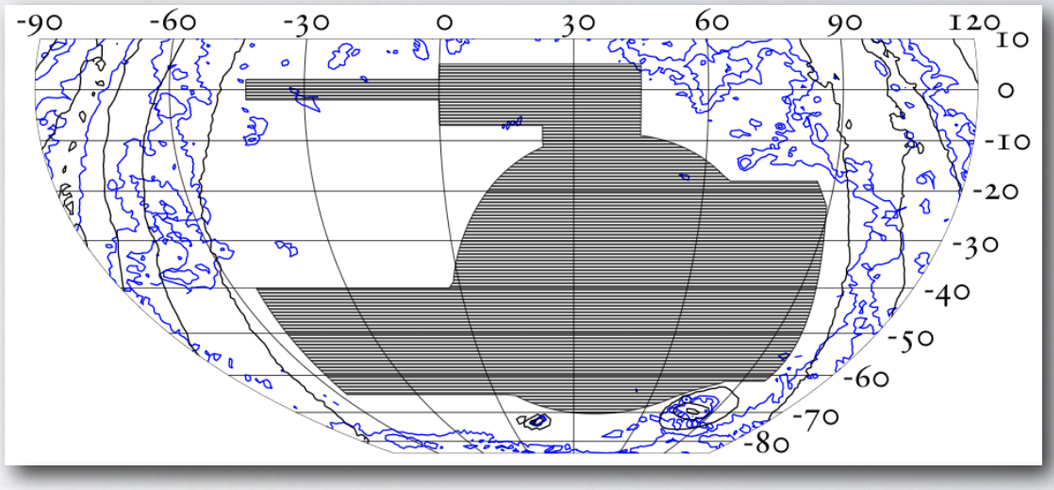
DECam: 3 sq-deg FOV, Blanco 4-m telescope in Chile

- Cover large regions quickly: 25th mag in 900 seconds
- We are part of the DES team that built, commissioned DECam



DES: 5000 sq-deg, completed by Feb 2018, grizY filters to 24th mag

- Largest area imaged to this depth in the south
- Possible extension to all southern sky: 13,500 sq-deg
- Image subtraction pipeline developed for DES SNe
- We plan to use the DES database and pipelines to process data taken in the GW source regions and find their optical counterpart.



Standard Sirens: Potentially a new cosmological probe. Our goal is to take the first step in this area by studying these early GW events.