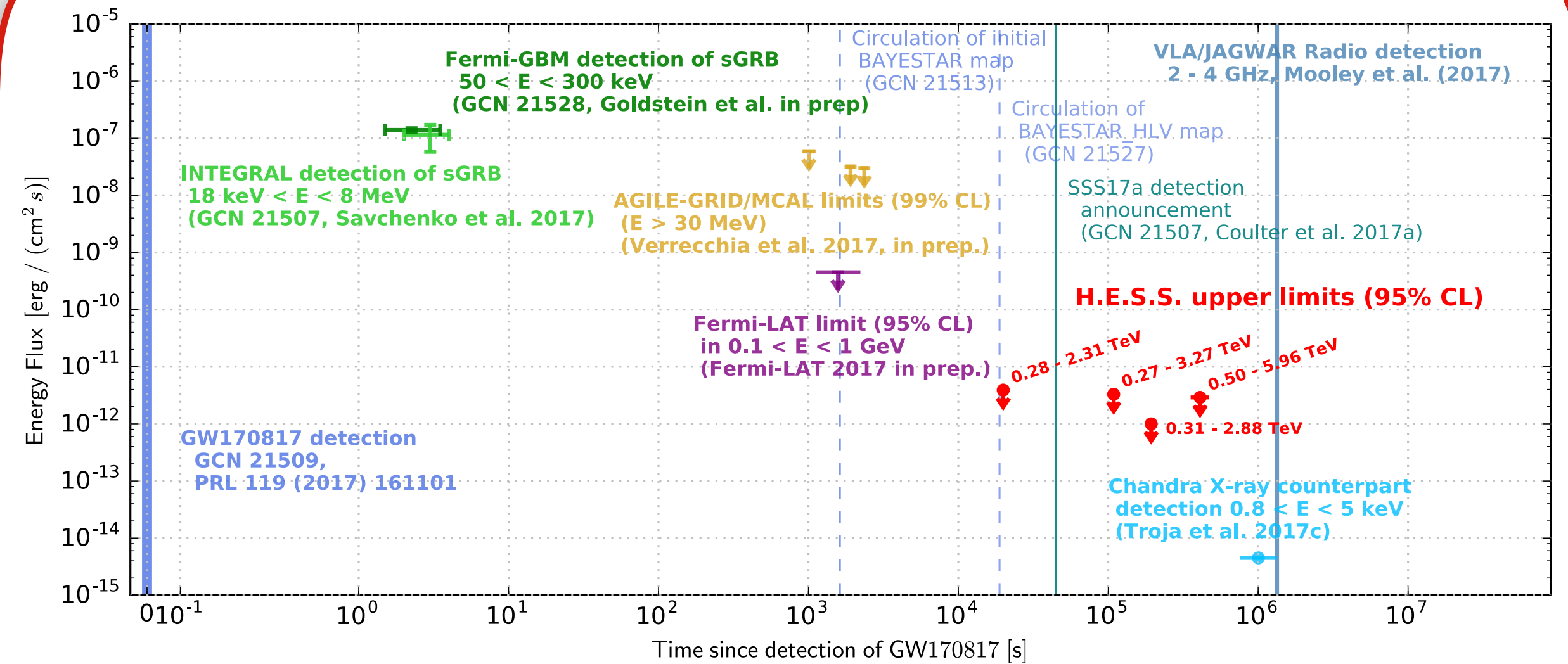
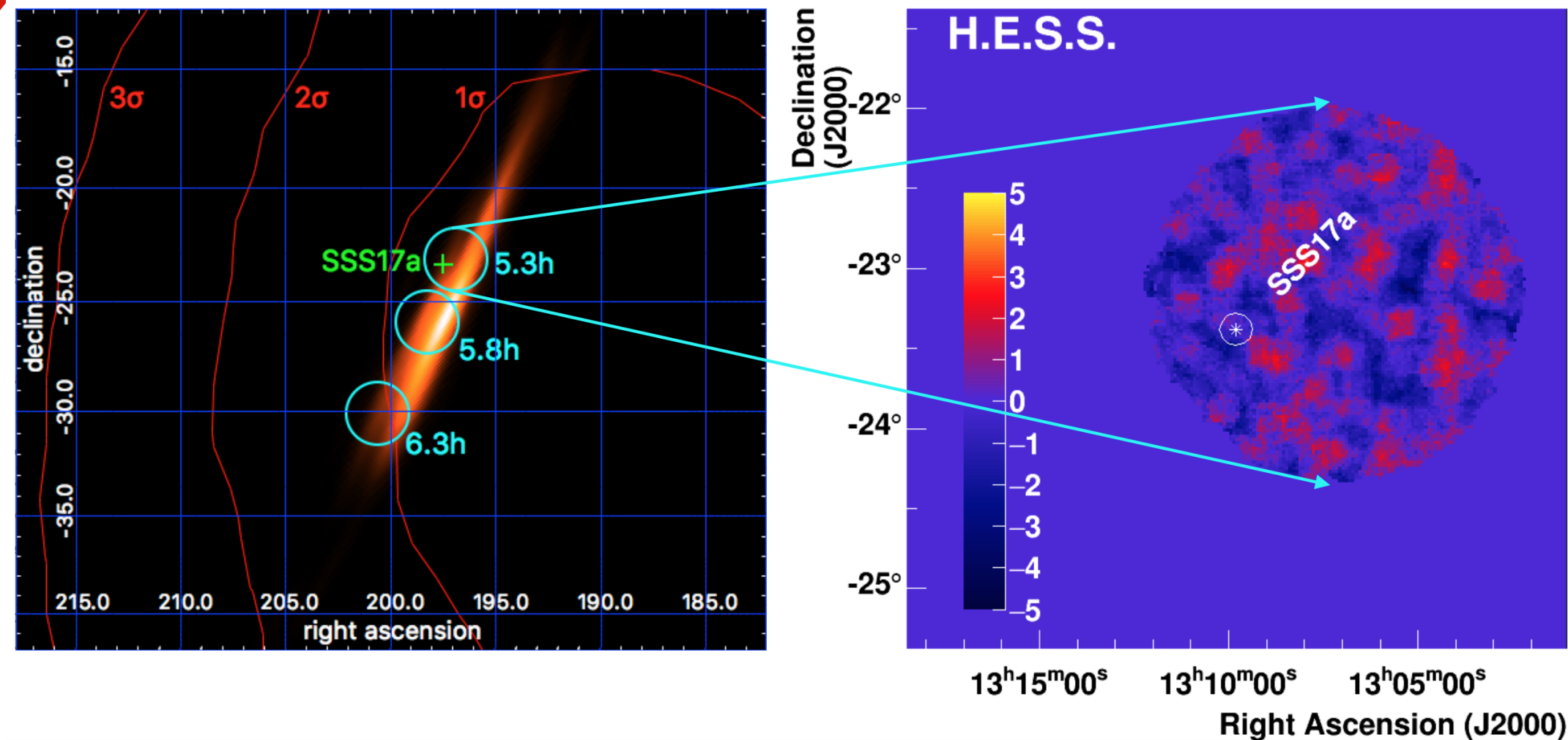
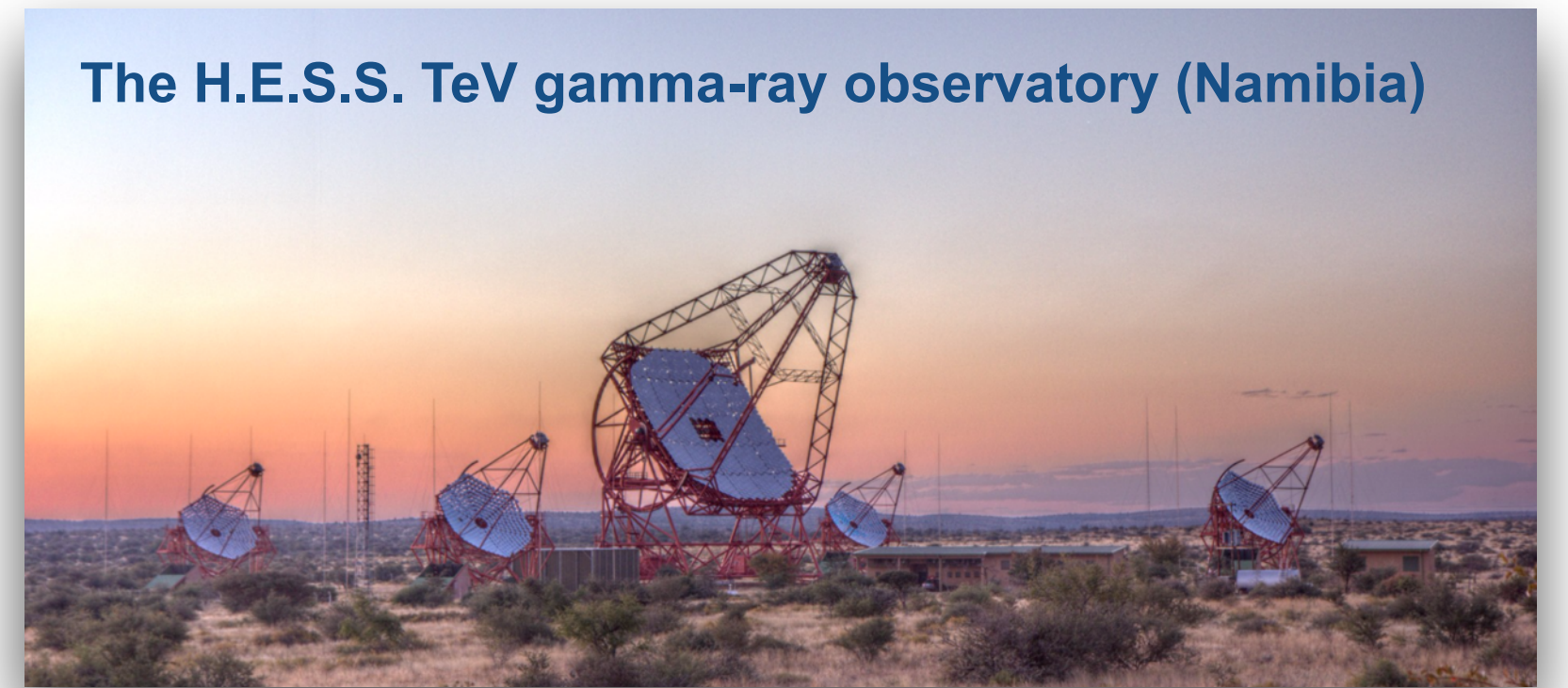


# High-energy gamma-ray follow-up of GW170817 with H.E.S.S.

- First ground-based observatory to observe SSS17a, the optical counterpart to the binary neutron star merger GW170817 and short gamma-ray burst GRB170817
- optimized pointing pattern using 3D-correlation of GW uncertainty maps with GLADE galaxy catalog
- Observations covering 0.22 to 5.2 days and an energy range between 270 GeV and 8.55 TeV
- $\Phi_\gamma < 1.5 \times 10^{-12} \text{ erg cm}^{-2} \text{ s}^{-1}$  ( $L_\gamma < 3.2 \times 10^{41} \text{ erg s}^{-1}$ )



H. Abdalla et al. (H.E.S.S. Collaboration), ApJL 850:L22 (2017)

