

The Galactic Center

Central Molecular Zone

Synchrotron and ionized gas,
Cold dust, Stars and hot dust

20 cm (Radio), 1.1 mm, 8 μm

VLA, CSO-Bolocam, Spitzer-IRAC

Yusef-Zadeh et al. 2004 ApJS
155,421

Bally et al. 2010 ApJ 721,137

Stolovy et al. 2006 JPhCS
54,176

Image credit: A. Ginsburg, NRAO

“S” stars

Stars

2.1 μm

Keck K-band

Ghez et al. 2008 ApJ
689,1044

Central lightyear

Stars & hot dust

3.8 μm

Keck L-band

Ghez et al. 2005 ApJ
635,1087

Event Horizon

*Synchrotron (Lensed
accretion disk)*

1.3 mm

EHT

EHT collaboration et al.
2022 ApJ 930, L12

Minispiral

*Ionized gas &
synchrotron (Sgr A*)*

1.3 cm (Radio)

VLA

Zhao et al. 2009 ApJ 699,
186

Sgr A East

*Synchrotron
(Supernova remnant)
and ionized gas*

6 cm (Radio)

VLA

Zhao et al. 2016 ApJ 817,171

Circumnuclear Disk

Hot dust

19.7, 31.5, 37.1 μm

SOFIA- FORCAST

Lau et al. 2013 ApJ 775, 37