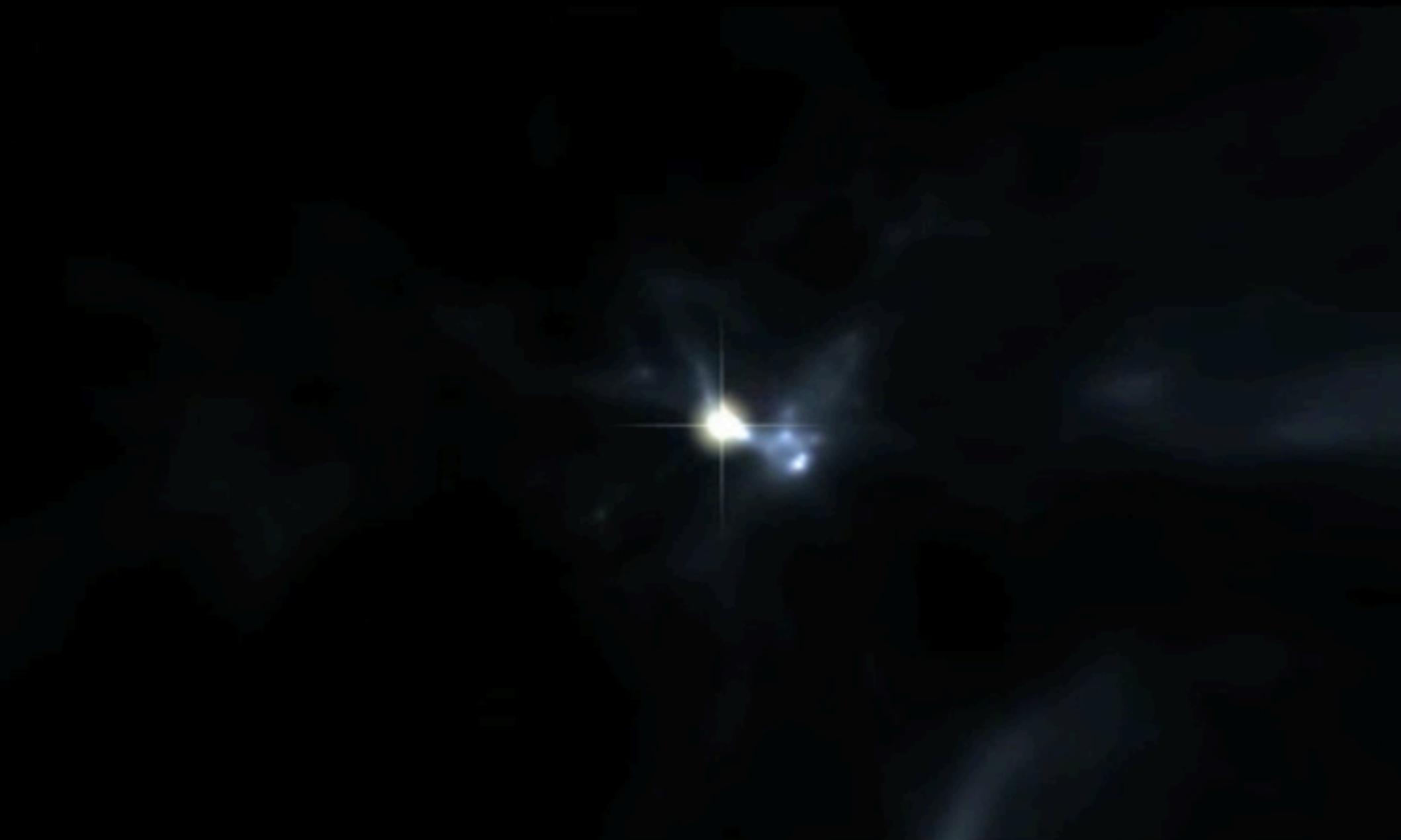


Cosmic Dawn & The Square Kilometer Array

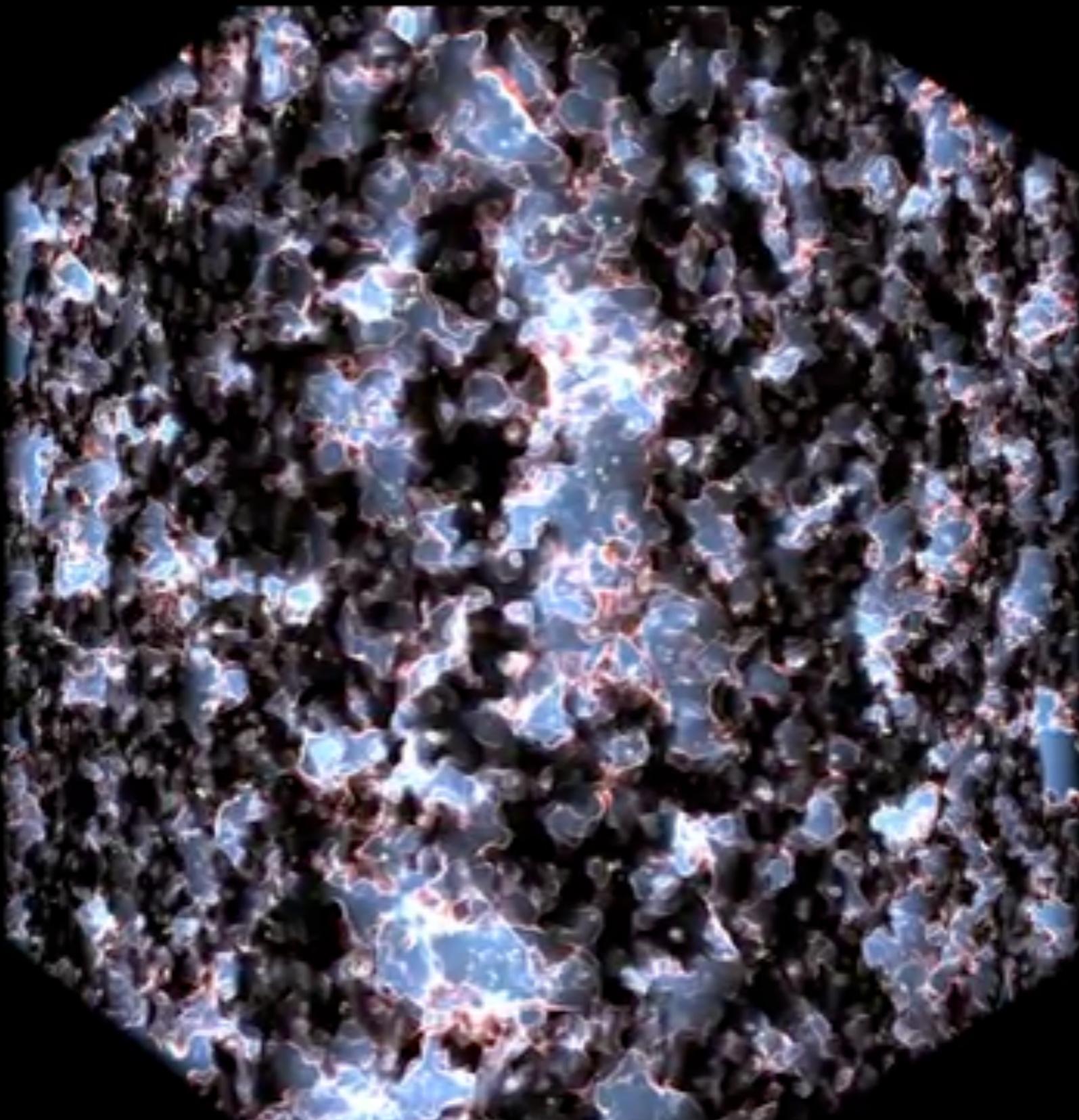


Jonathan Pritchard @jr_pritchard

First stars



Abel, Alvarez, Khaesler (Stanford)



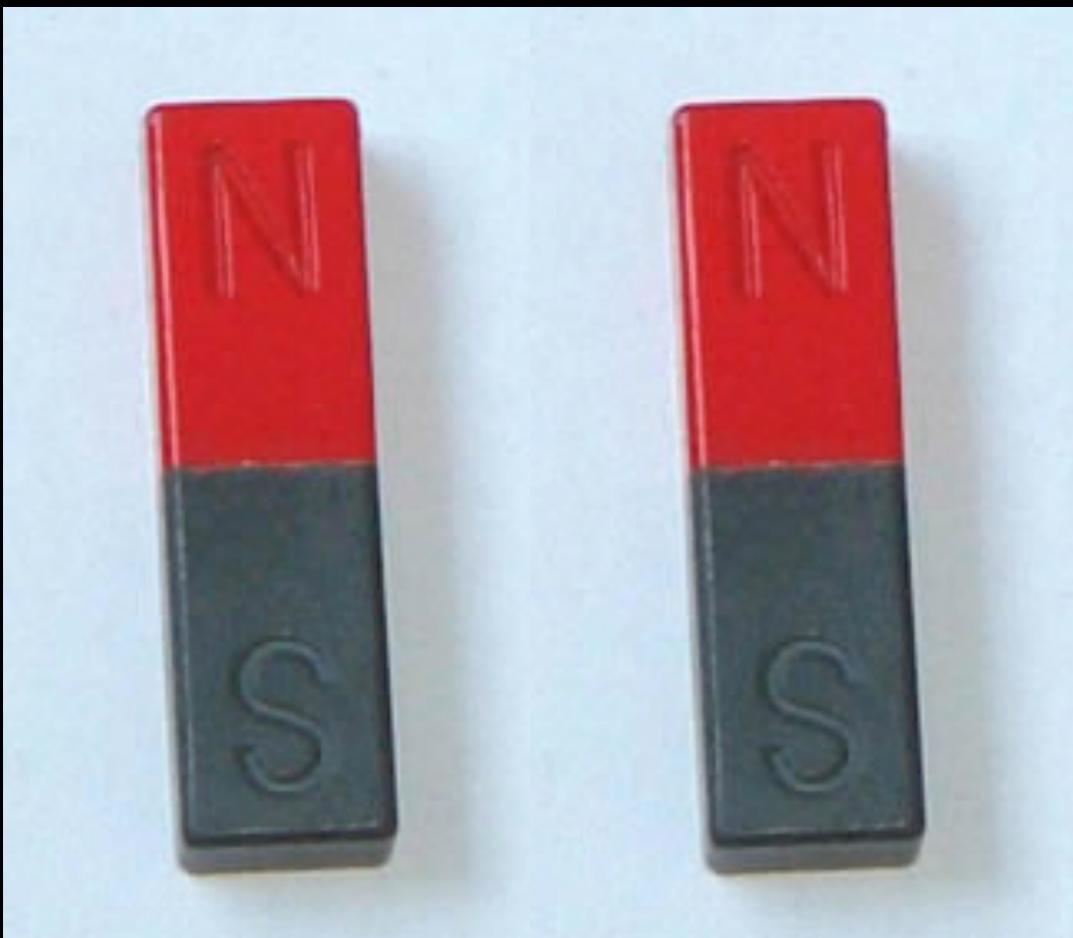
Reionization

750
million
years

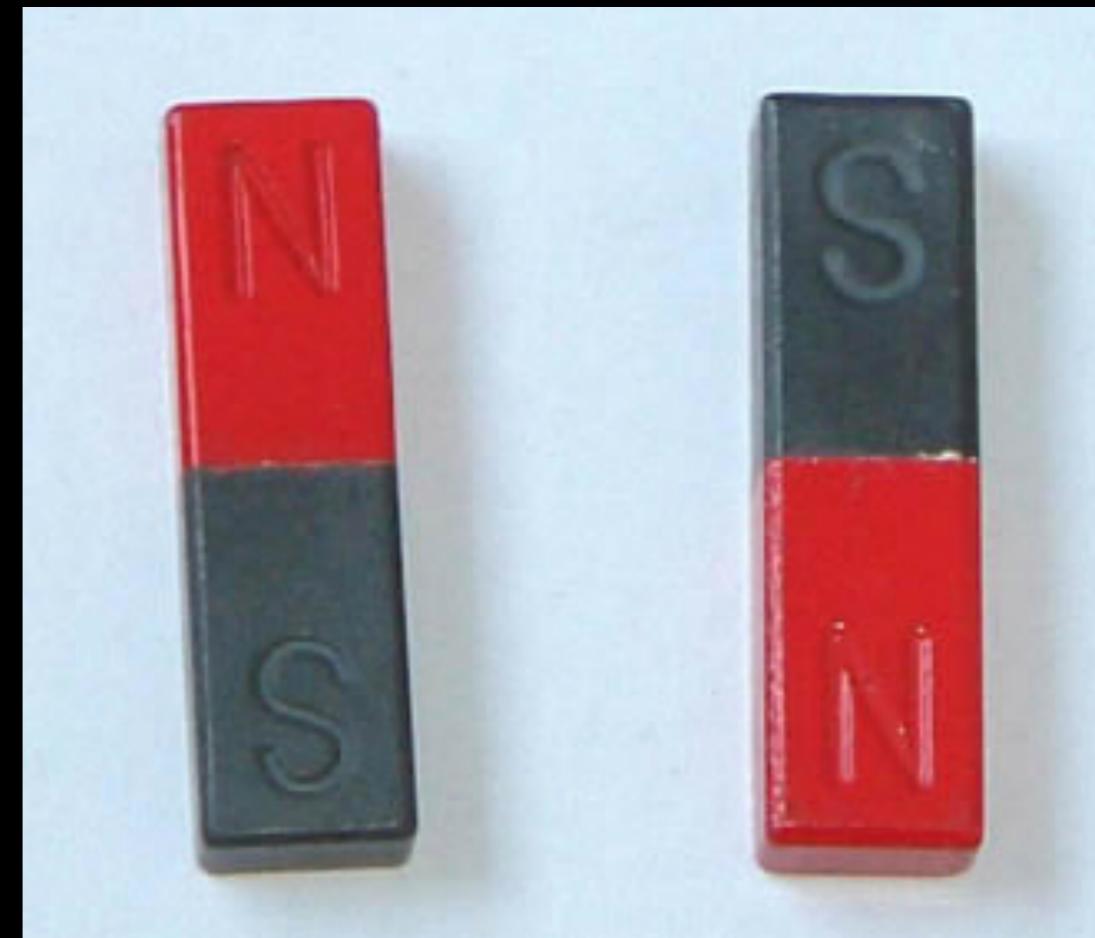


500
million
years

Magnets!



Excited hydrogen



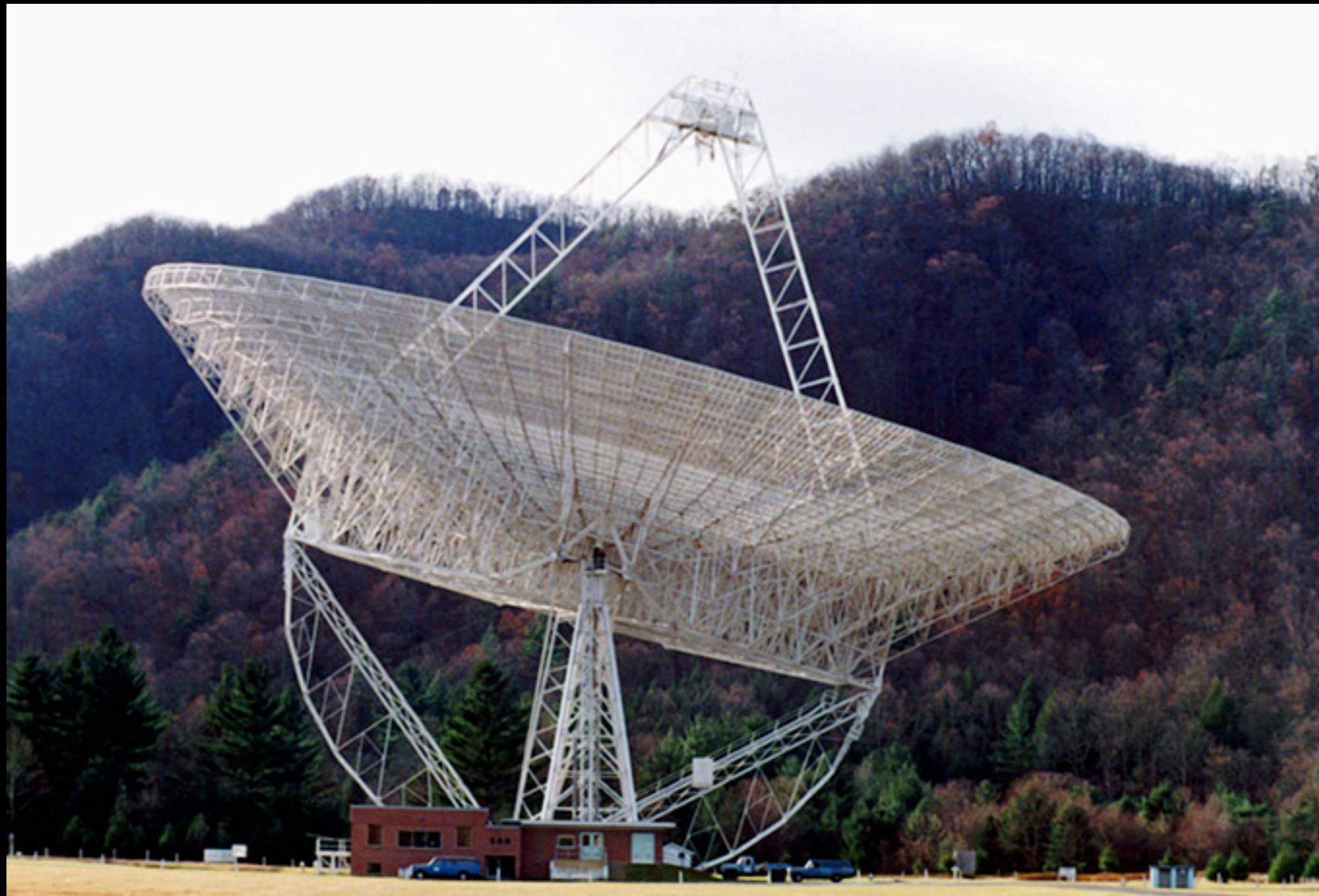
Relaxed hydrogen



Radio 101.2 FM
playing songs from the early hundred millions



Bigger is better!



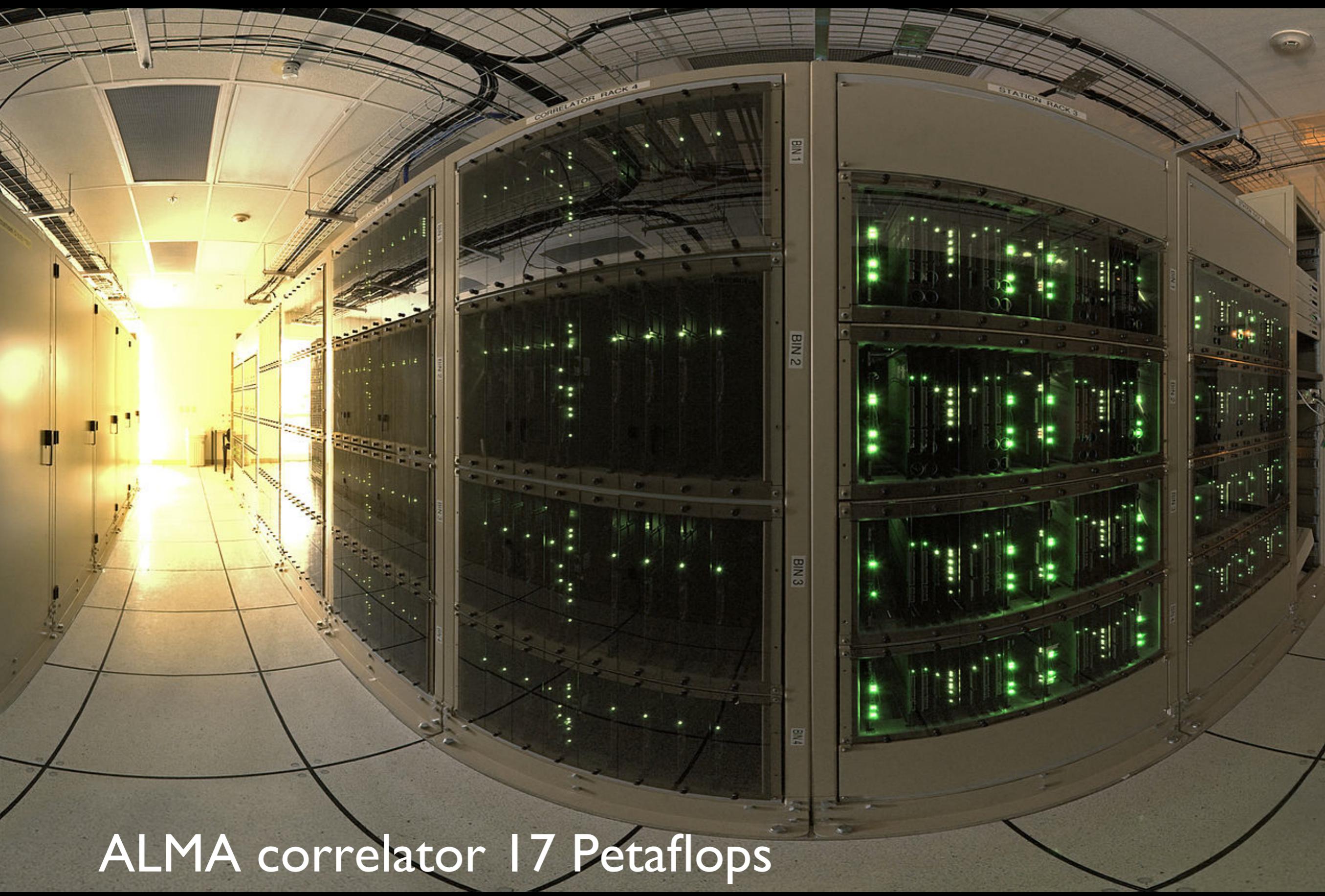
Green Bank 300ft telescope

Bad day in West Virginia



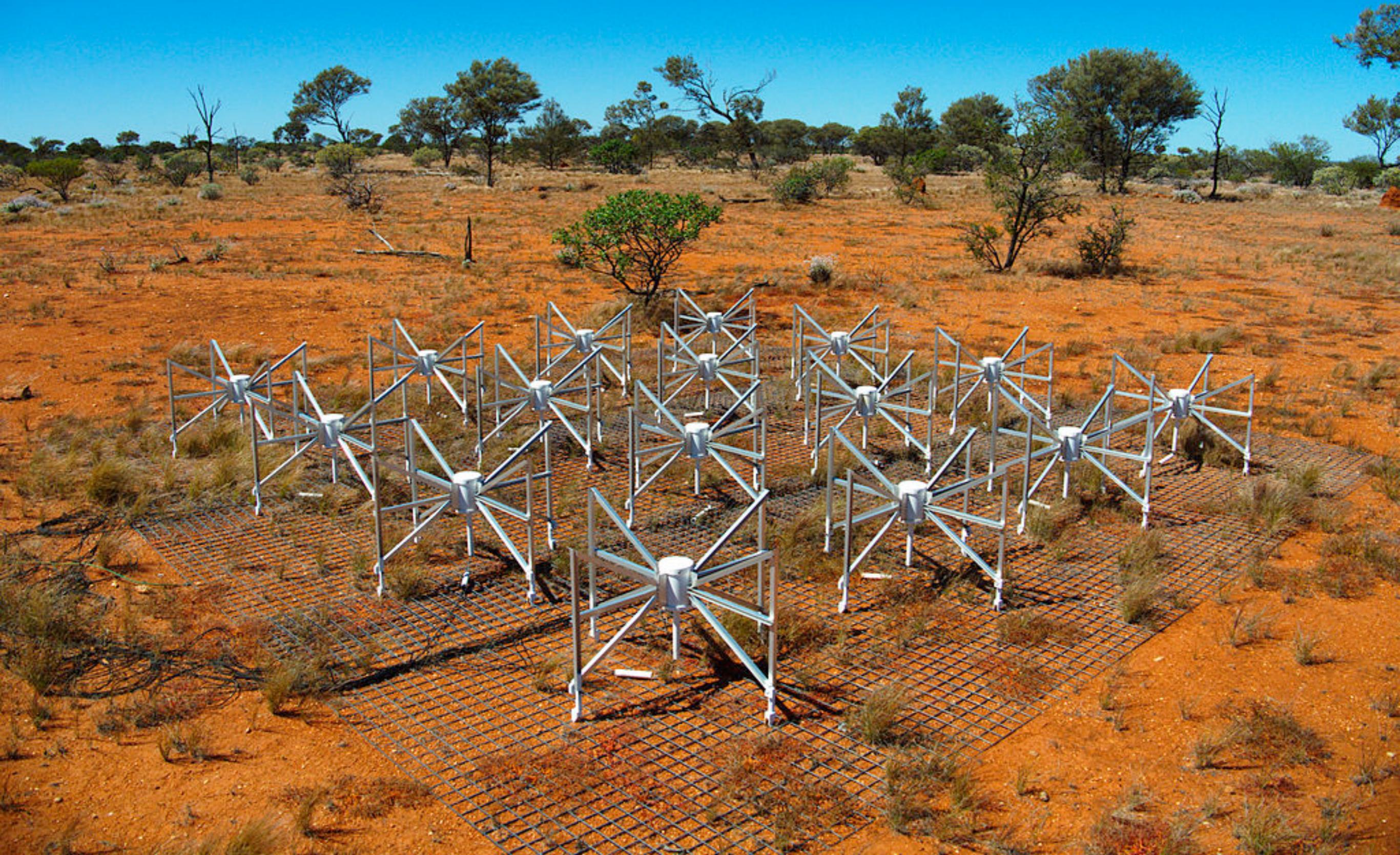
collapsed in 15 November 1988 - structural failure

Modern Radio Telescope

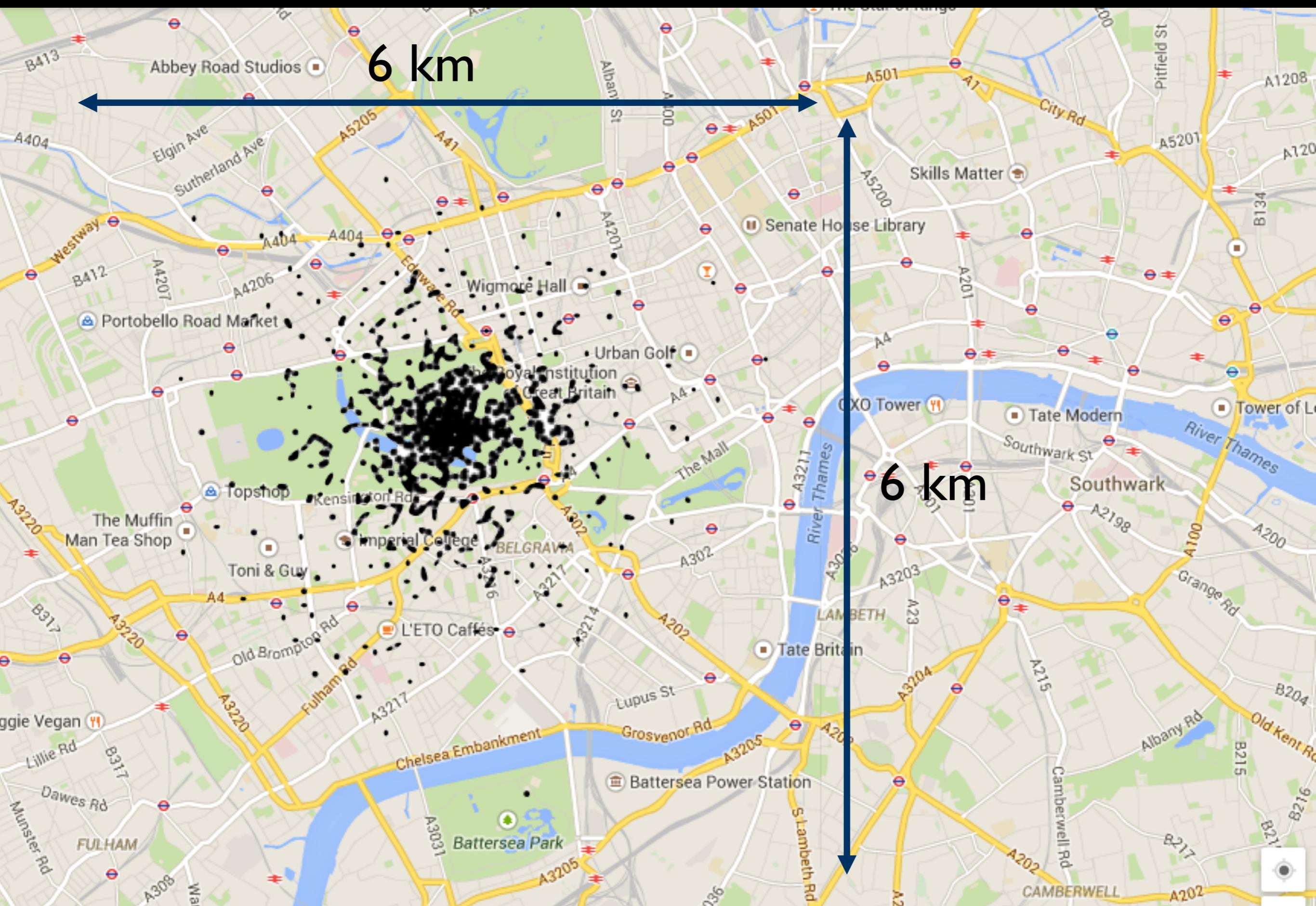


ALMA correlator 17 Petaflops

Murchison Widefield Array, Western Australia



Square Kilometer Array



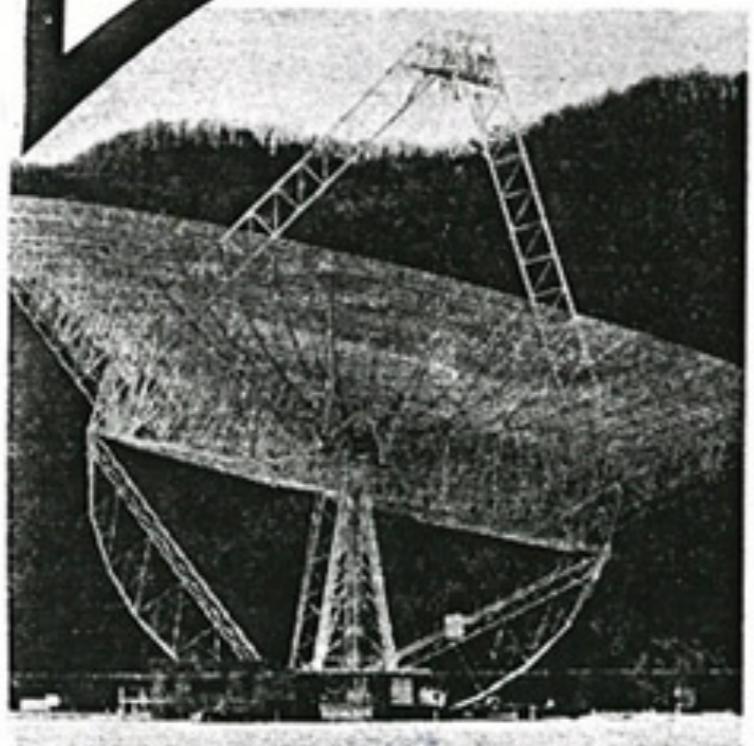


skatelescope.org/shared-sky collaborative painting from Aboriginal Yamaji Artists

*America's most powerful radio
telescope IS . . .*

ZAPPED!

. . . by hostile space aliens!



BEFORE ▲



AFTER ►

Fin