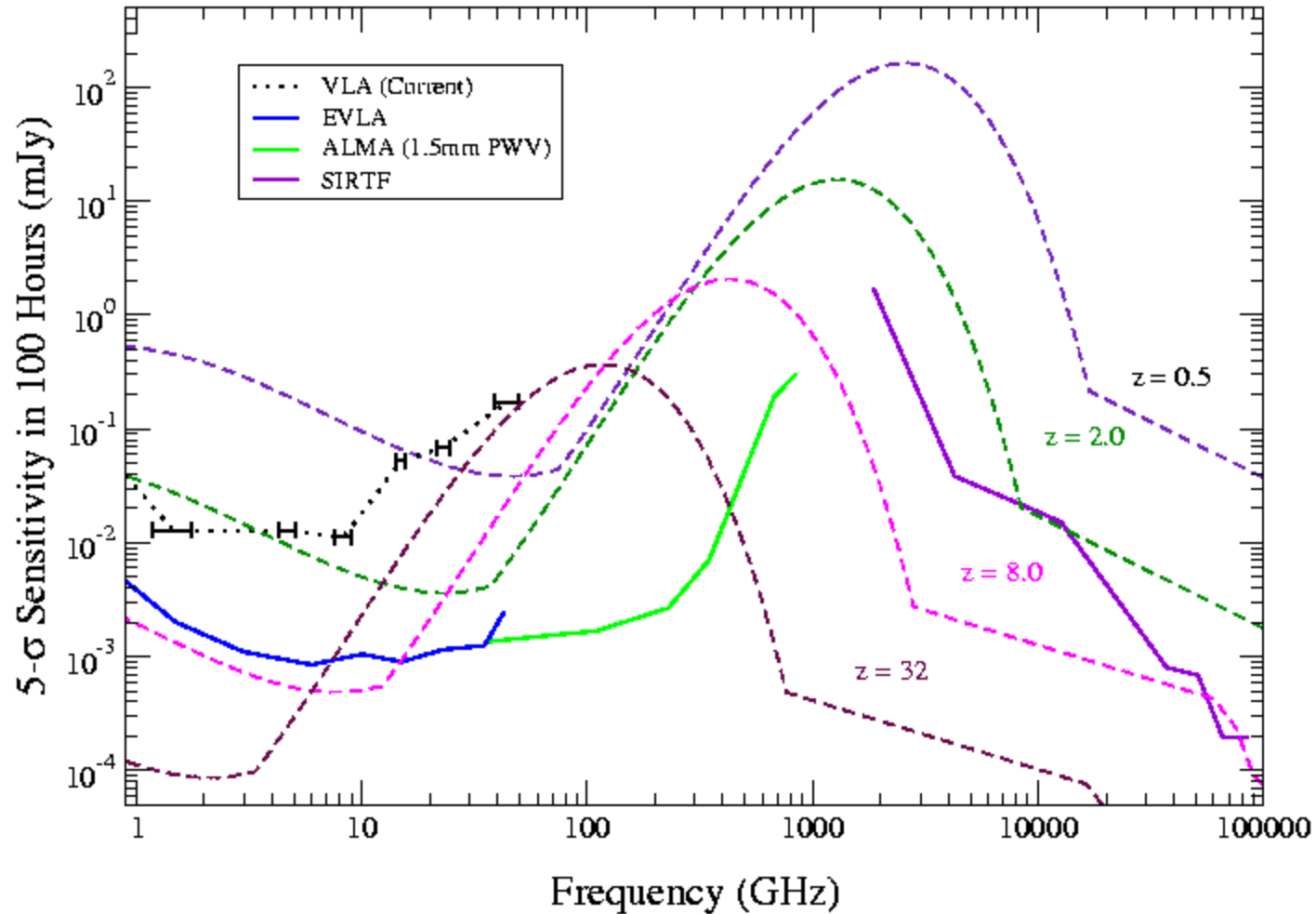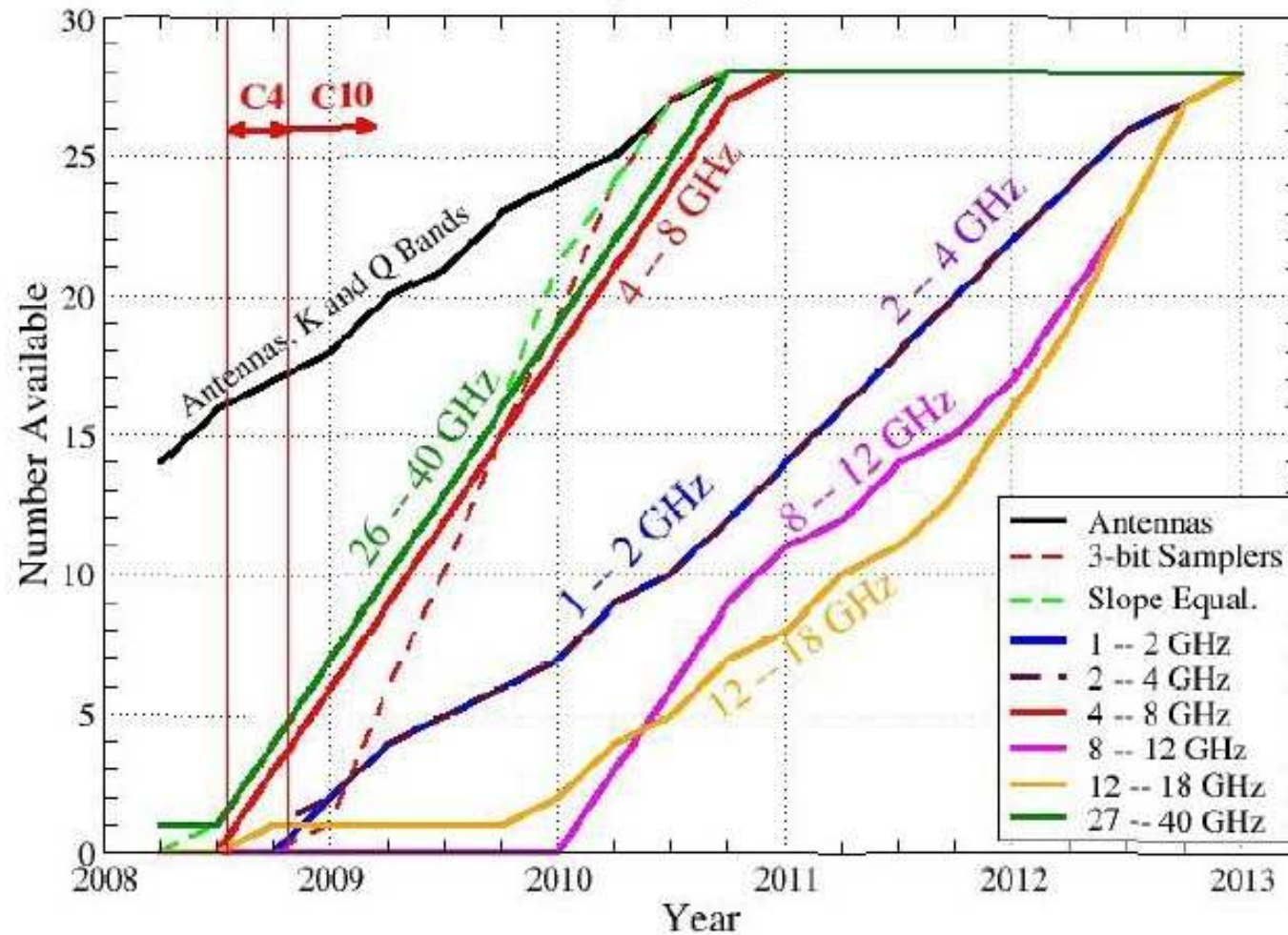# EVLA

- 1-50 GHz +bands at 90cm and 4m
- Continuum Sensitivity ~ 1 micro/Jy in 12 hours across the 1-50 GHz
- Up to 8 GHz bandwidth at once
- Still 27x25m antennas (actually 28)
- Resolution at highest frequency ~30milliarcsec

EVLA/ALMA 100 hr sensitivity

EVLA Wideband Receiver Availability

Prepared Aug 2008

EVLA Requirements #1

- Data Rate:1000X > VLA; 1Tbyte database common

- Robust Automatic Flagging

- Wide-band Calibration: bandpass, polarization, amplitude, phase/delay

- Spectral-line imaging 16384 channels normal; 262,144 or more possible

EVLA Requirements #2

- Wide-band/Wide-field Continuum Imaging over 2:1 bandwidths

- Dynamic Range 10^5-10^7

- Primary beam/Pointing Correction Selfcal

- Full-field Polarization Calibration/Selfcal

- Mosaicking

- RM Imaging, other special applications