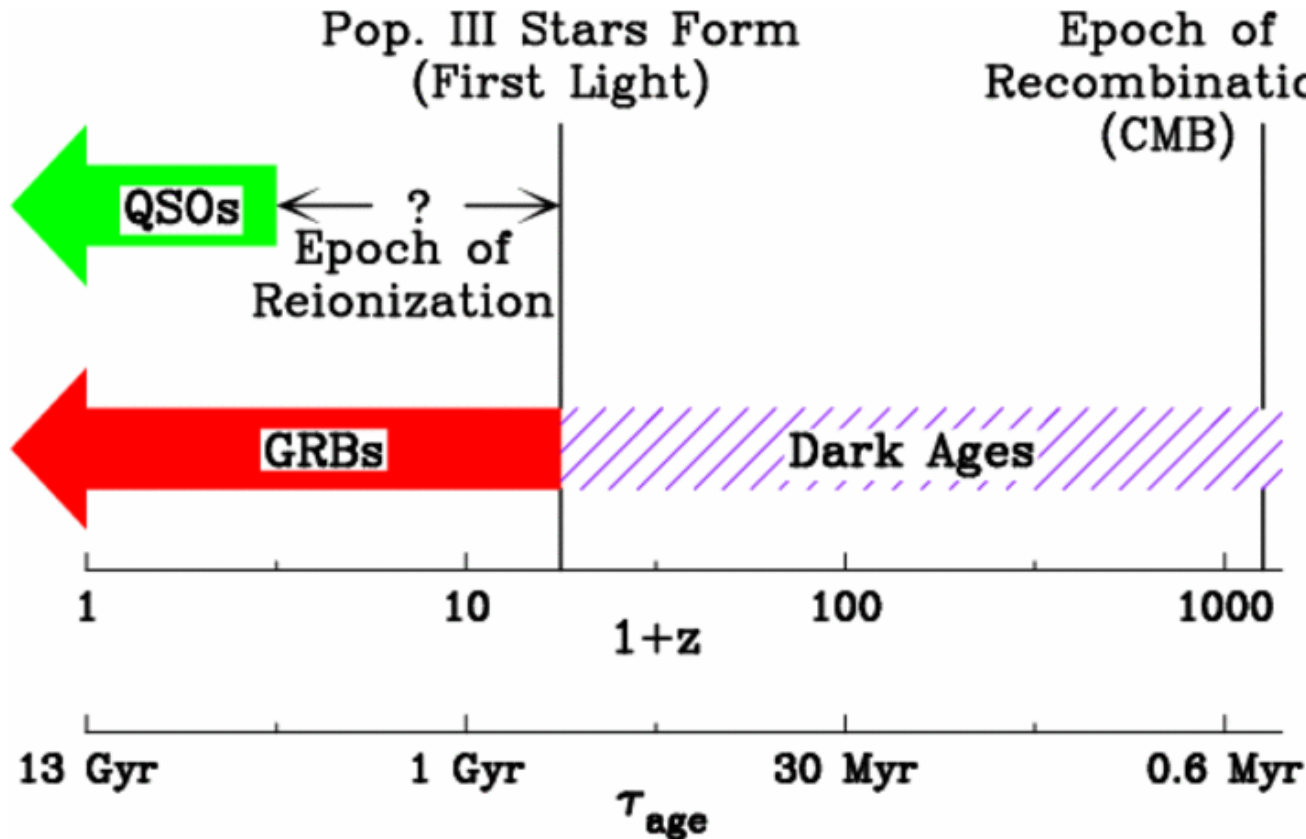


GRBs in Cosmological Context



- Long GRBs are due to collapse of massive stars, and are therefore expected to occur *out to redshifts $z = 20$*
- GRBs and their afterglows are very bright, and are thus *easily observed out to $z = 20$ (unlike QSOs and galaxies)*

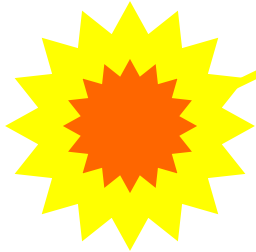
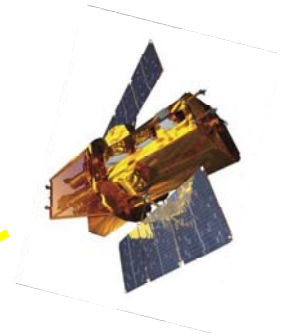
Lamb and Reichart (2000)



GRBs as Probes of the Early Universe



- ❑ Moment of “first light”
- ❑ Star formation history of universe
- ❑ Elemental abundance history of universe
- ❑ Reionization history of universe



Lamb and Reichart (2000)