Core Science Programs

Target Class	Study Objective	Target AB Mags.
Deep fields	One deep field (down to AB magnitude 32) and 100 deep less (AB 30) flanking fields will be observed in broad-band filters	30–32
Universe at redshifts $z > 2$	Primeval spheroids, birth and evolution of disks, the origin of heavy elements, birth and evolution of AGN	29 (near-IR) 26 (thermal-IR)
Supernovae study	Improve our knowledge of the geometry of the universe and study the material universe before the birth of galaxies	31
Stellar populations	Color magnitude to the horizontal branch luminosity both in the optical and in the near IR in the nearby universe	30.5–32
Cosmic distances	Studies, based on gravitational lensing and gravitational time delays, determine dark-matter distribution	27
Kuiper Belt object searches	Statistically meaningful study of their properties as well as of their distribution in space	30 (near-IR) 25 (thermal-IR)