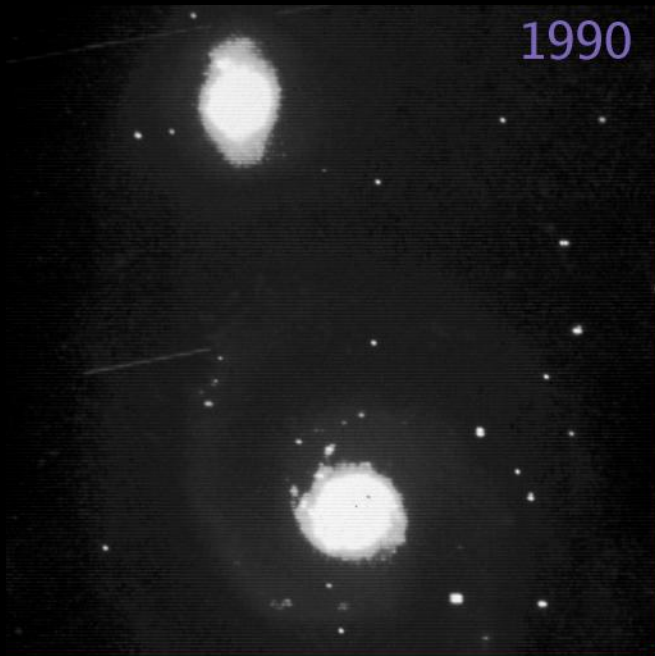


The UKIDSS Large Area Survey

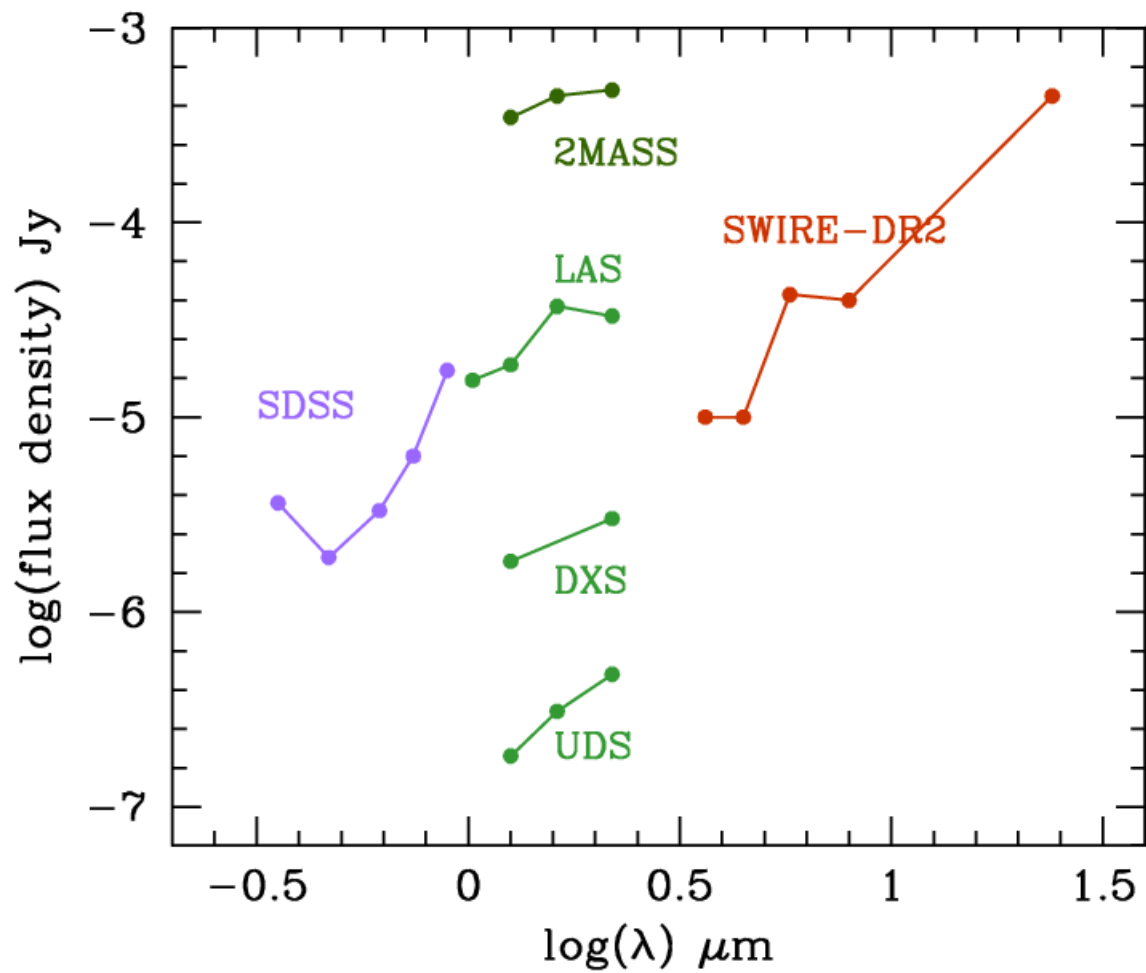
Steve Warren Imperial College London
UKIDSS Survey Scientist

Thanks to: Richard Jameson, Simon Dye, Daniel Mortlock
JAC, CASU, WFAU



Science goals

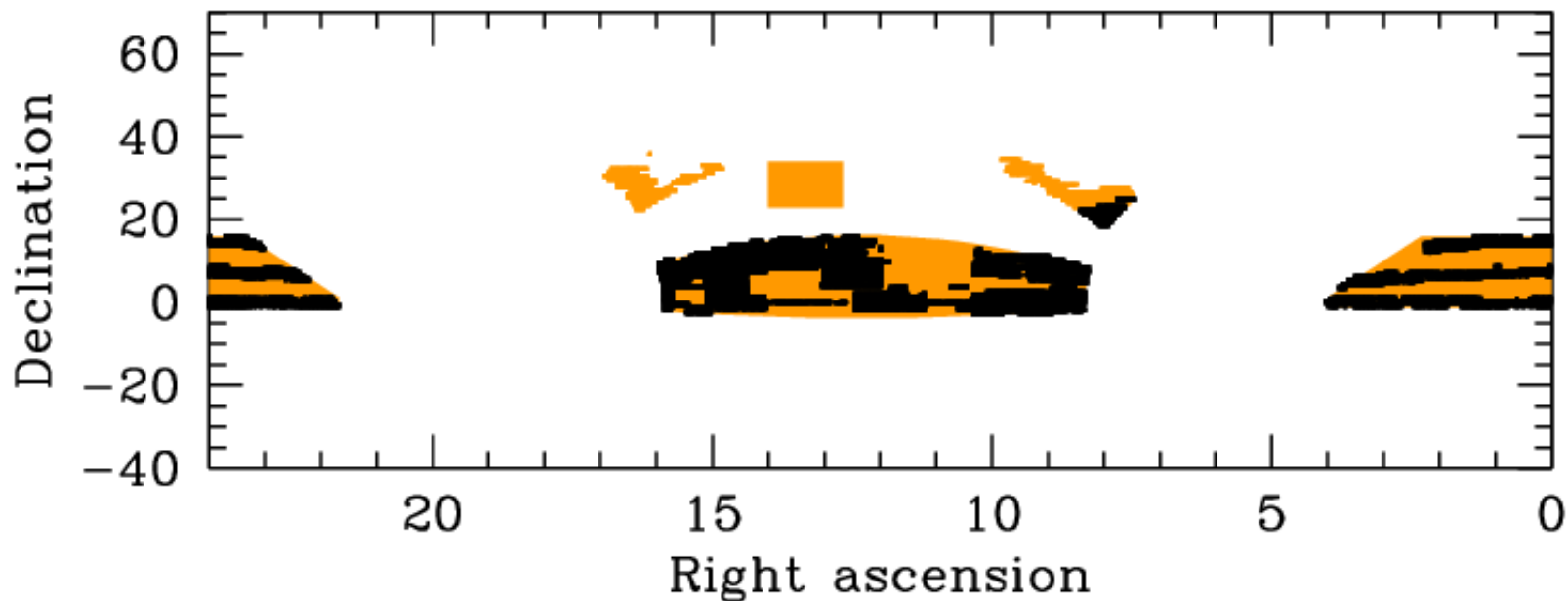
1. Near-infrared complement to SDSS galaxy survey
2. The coolest brown dwarfs $T_{\text{eff}} < 750\text{K}$
3. The highest-redshift quasars $z > 6.4$
4. Legacy archive for multiwavelength IDs



| | Vega 5sig |
|---|-----------|
| Y | 20.4 |
| J | 19.8 |
| H | 19.0 |
| K | 18.3 |

| | Y | J1 | J2 | H | K | total | YJHK | Y/J/H/K |
|---------|------|------|------|------|------|-------|------|---------|
| LAS | 4000 | 4000 | 4000 | 4000 | 4000 | 20000 | | |
| revised | 3792 | 3792 | 2000 | 3792 | 3792 | 17168 | | |
| DR6 | 1600 | 1845 | 41 | 1842 | 1852 | 7180 | 1431 | 2152 |

The LAS at DR6 is 42% complete (and currently is 56% complete) relative to revised goal



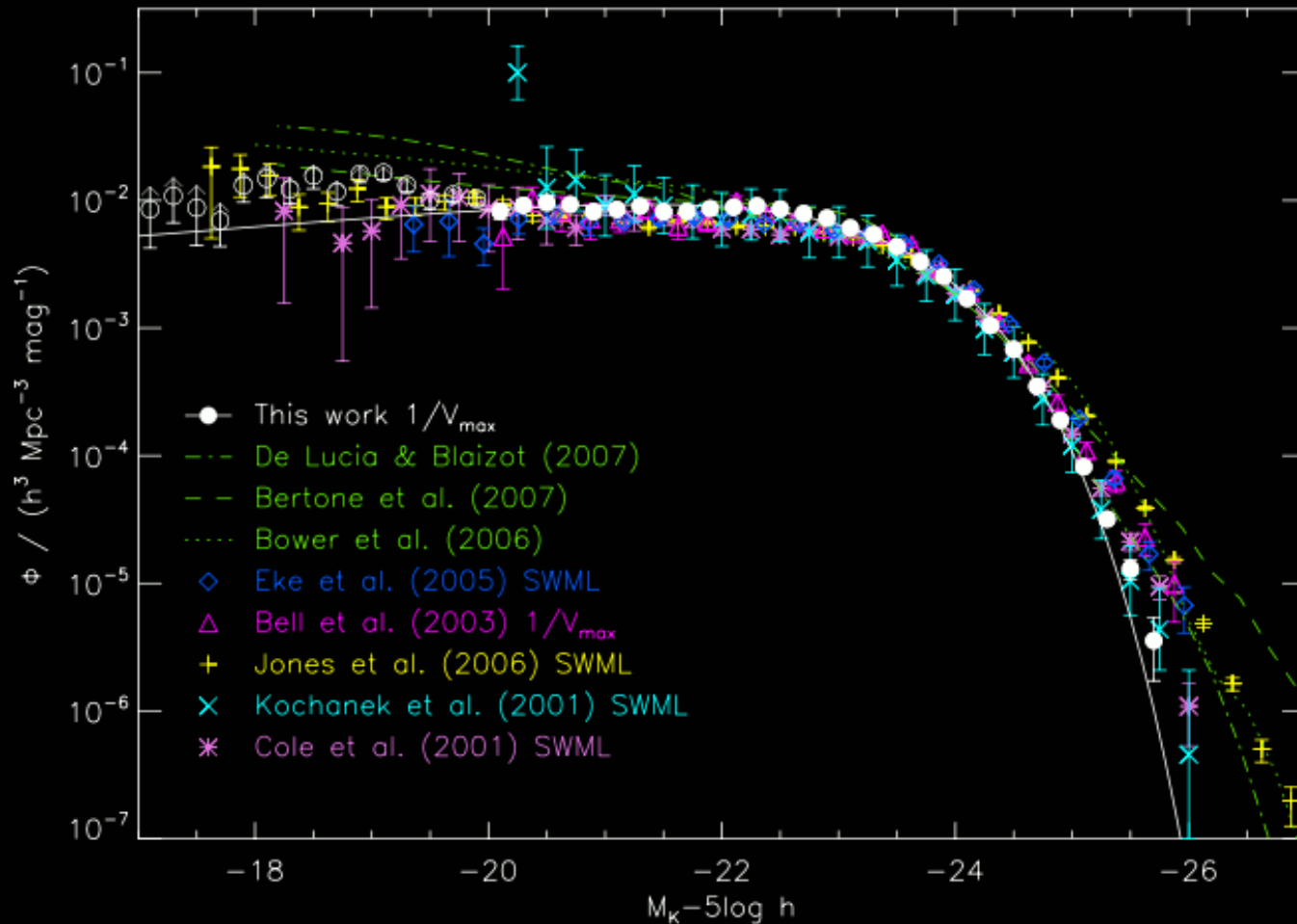
28 LAS publications

1. 5 galaxies (James)
2. 14 cool brown dwarfs (Burningham)
3. 6 quasars (Mortlock)
4. 5 my object is in UKIDSS (incl 2 cool stars)

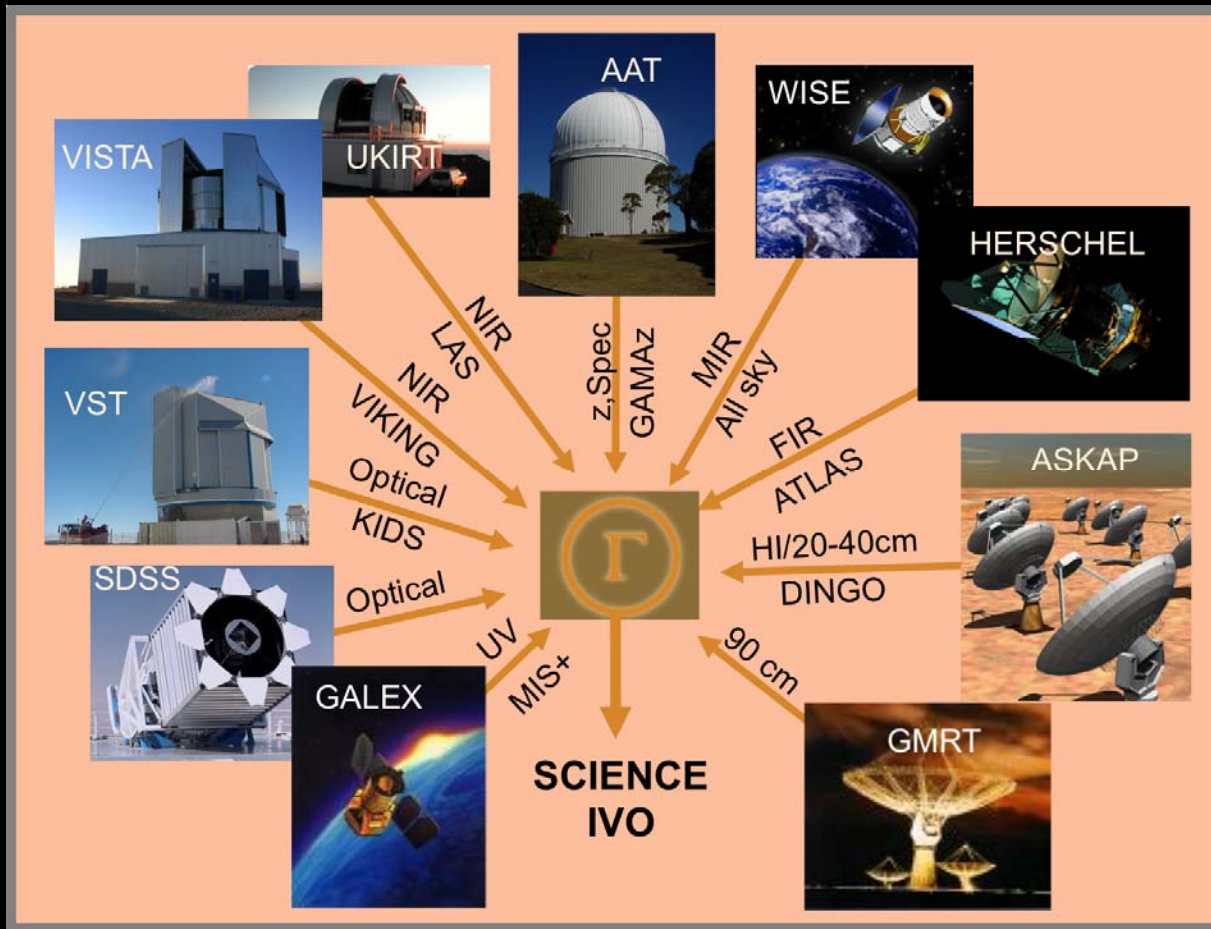
Galaxies with the LAS

1. Smith: The K-band galaxy luminosity function
2. The GAMA survey
3. Wild: Post-starburst galaxies

Smith: K-band galaxy LF



Galaxy and Mass Assembly (GAMA) PI Driver



AAOmega redshift survey. 120N combining SDSS+UKIDSS to measure dark matter mass function

Galaxy and Mass Assembly (GAMA) PI Driver

