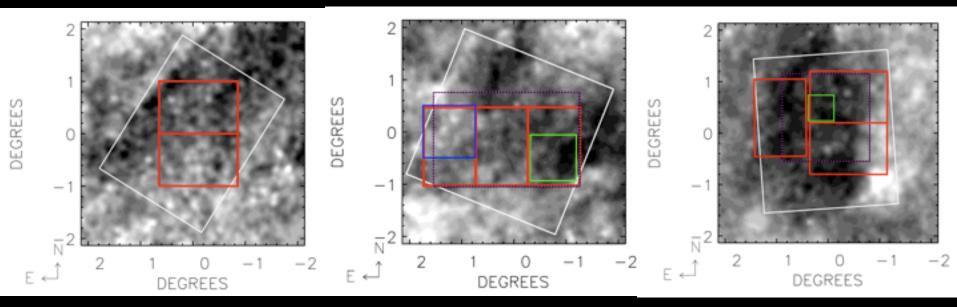
VIDEO

Matt Jarvis & Dave Bonfield University of Hertfordshire

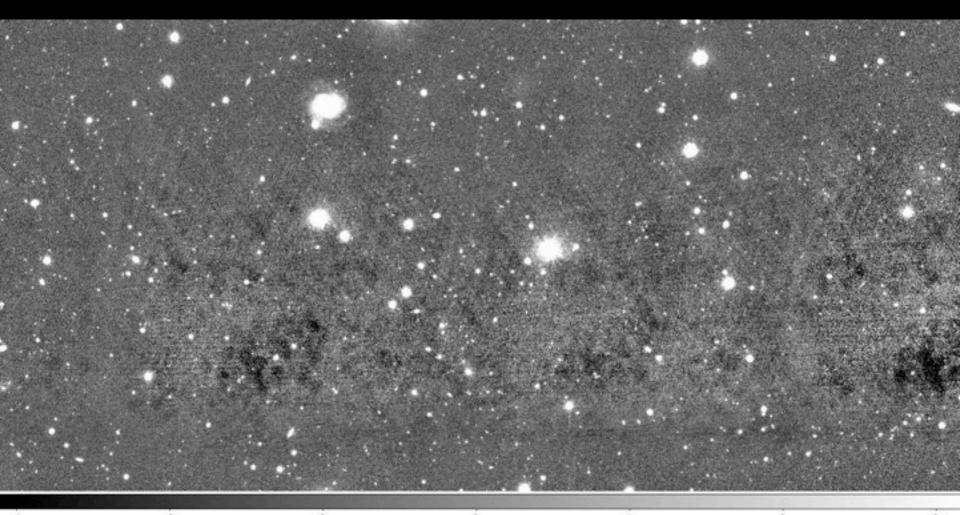


The VIDEO Survey

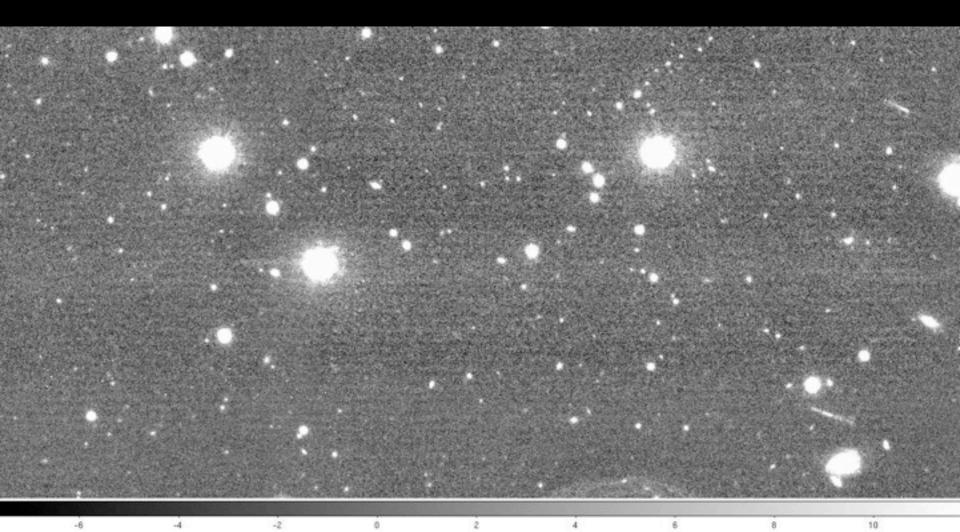


Filter	Time (per source)	Time (full survey)	5 σ AB	5σ Vega	UKIDSS -DXS	Seei ng	Moon
Ζ	17.5 hours	456 hours	25.7	25.2	-	0.8	D
Y	6.7 hours	175 hours	24.6	24.0	-	0.8	G
J	8.0 hours	209 hours	24.5	23.7	22.3	0.8	G
Η	8.0 hours	221 hours	24.0	22.7	22	0.8	В
K _s	6.7 hours	180 hours	23.5	21.7	20.8	0.8	В

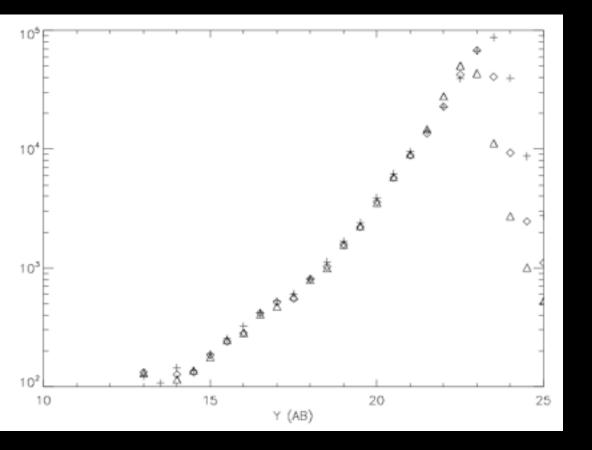
SV Y-band Data in UDS (detector16)



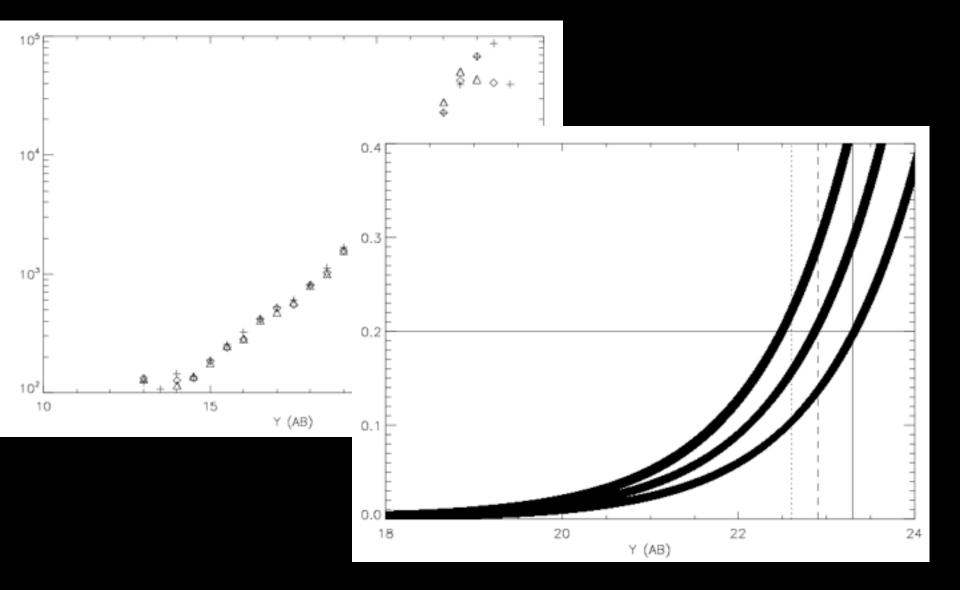
SV Y-band Data in UDS

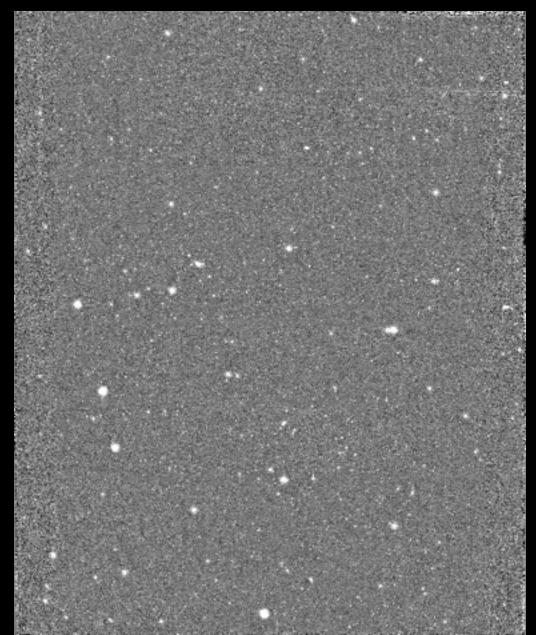


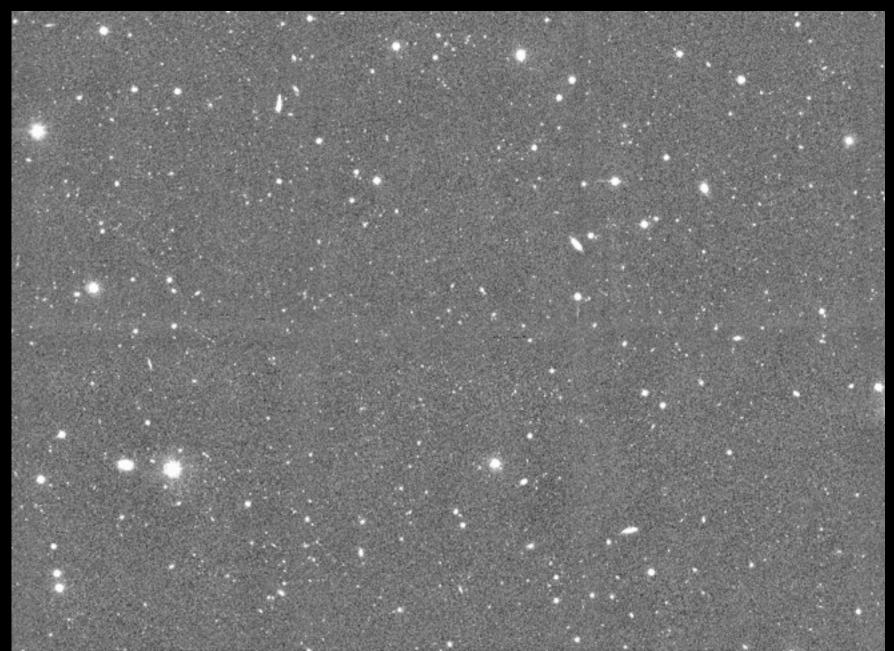
SV Y-band Data in UDS

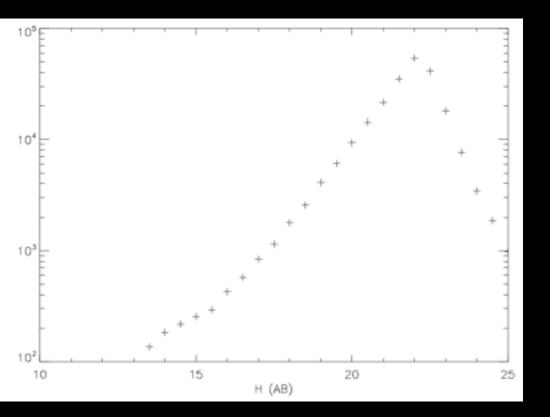


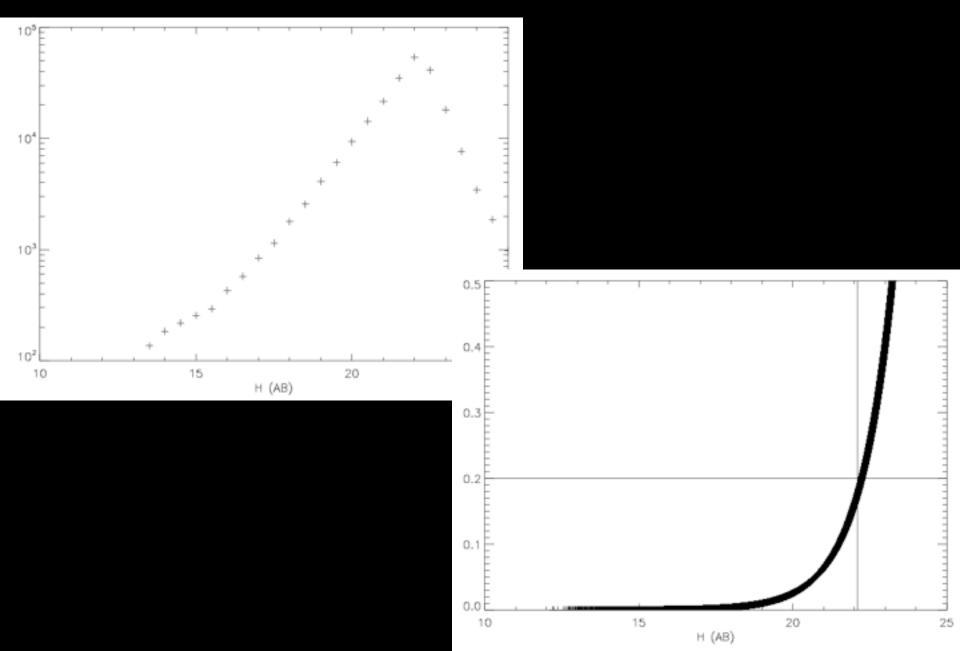
SV Y-band Data in UDS

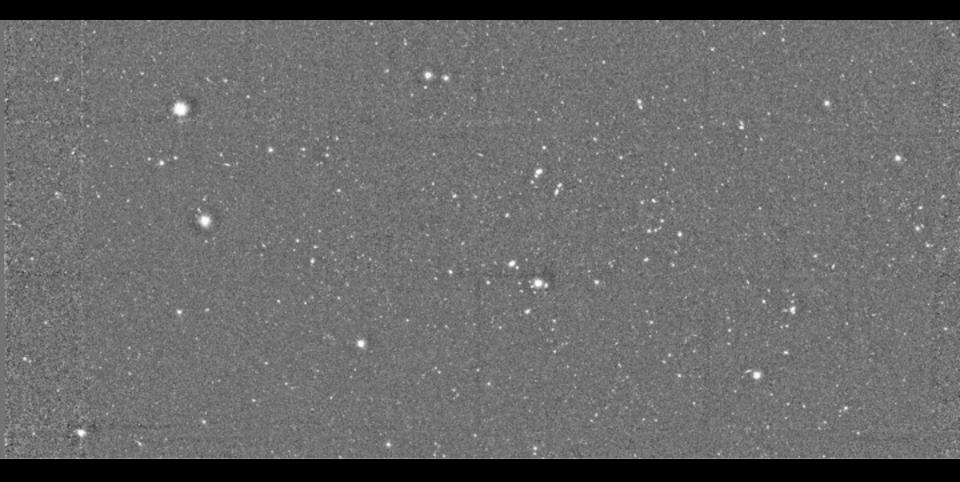


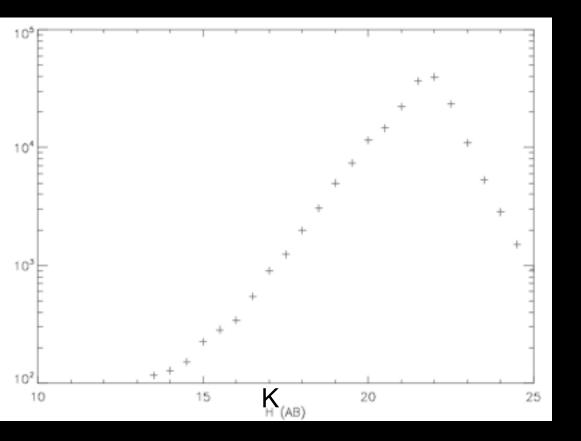


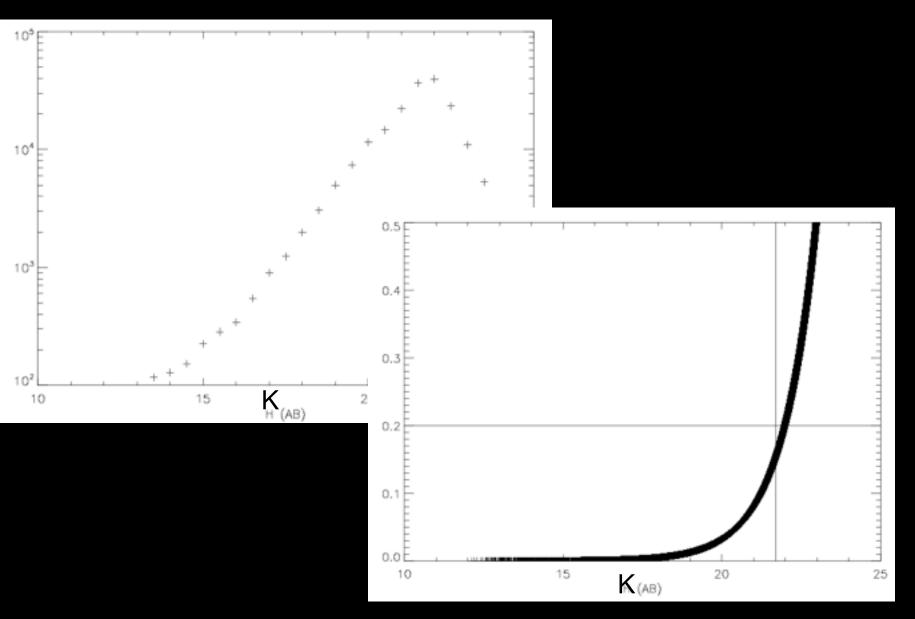












Currently, this is where we stand on CFHTLS-D1 in terms of complete OBs(which are all approx 1 hour):

K 17/42 = 40%H 21/39 = 54%J 27/36 = 75%Y 21/28 = 75%Z 0/61 = 0%

Wish List from CASU

• Reprocessing with updated object mask for each filter on each field (can test with single object mask per tile – 8 tiles total)

• Drizzle and interpolate to full tile from individual paw prints – keep resampled pixel scale throughout ?

• Uncertainty maps for all paw print images?

• Would like both nebulosity removal and without (at least in year 1 to check) on the paw prints (or the code)

• Need illumination paw-print to use to extract catalogues after stacking (why can't this be done before all processing?)

Wish List from ESO

• How are OBs rejected – what are the conditions – is it strictly within our constraints? (i.e. <0.8" – if so why do we have images with 1"?)

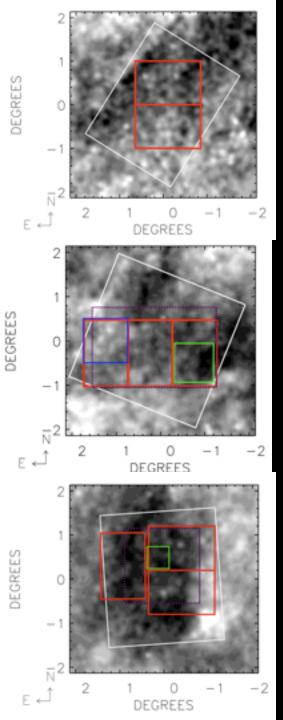
• Can we ensure that ZYJ-bands are done 3hours after twilight?

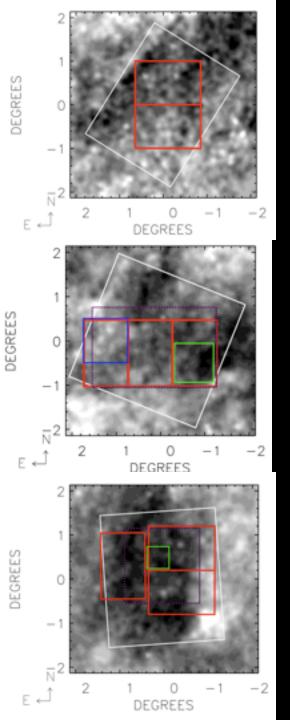
• Knowledge of how OBs are scheduled – ESO simulation may not be in line with Survey strategy (overfill the queue) – can we feed into it?

• Need to know more about allocation in future Periods to enable us to plan strategy for current period

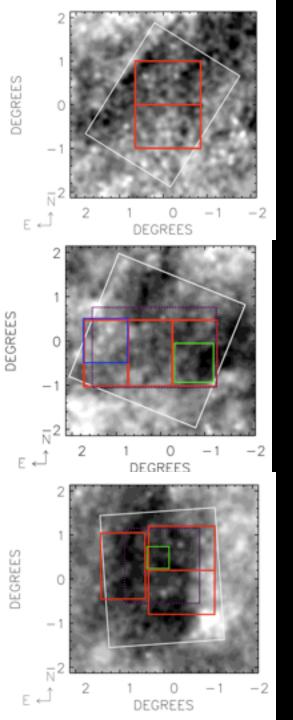
• How do priorities/groups/constraints all work together at Paranal?

• Clarity on when product are delivered to ESO. My understanding is 6 months after the Period end in which the OBs were done (just basic products)



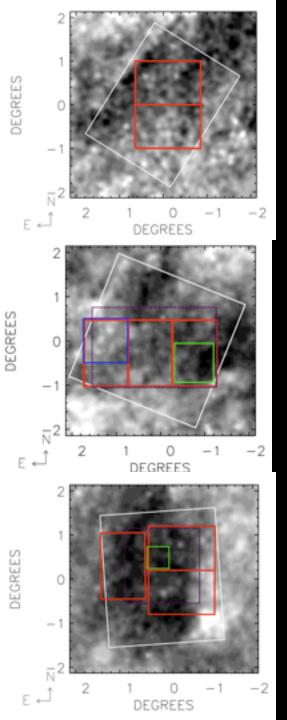


Spitzer Representative Volume Survey (SERVS) approved to cover VIDEO survey regions + LH and Elais-N1



Spitzer Representative Volume Survey (SERVS) approved to cover VIDEO survey regions + LH and Elais-N1

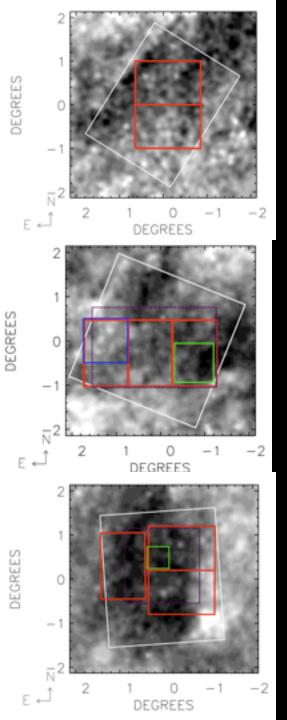
(1400 hours allocated – PI Mark Lacy)



Spitzer Representative Volume Survey (SERVS) approved to cover VIDEO survey regions + LH and Elais-N1

(1400 hours allocated – PI Mark Lacy)

Management: Matt Jarvis, Seb Oliver and Duncan Farrah

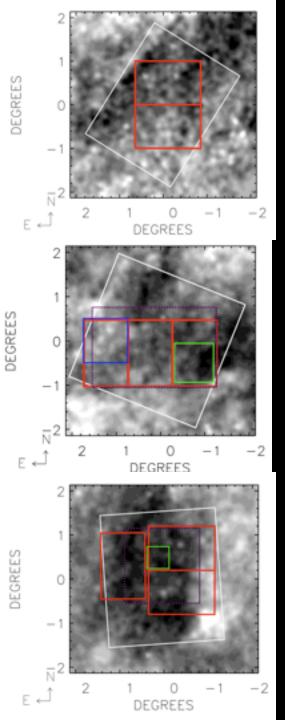


Spitzer Representative Volume Survey (SERVS) approved to cover VIDEO survey regions + LH and Elais-N1

(1400 hours allocated – PI Mark Lacy)

Management: Matt Jarvis, Seb Oliver and Duncan Farrah

Will provide 3.6 and 4.5um data to slightly deeper levels than the VIDEO depths (L* at z>5)



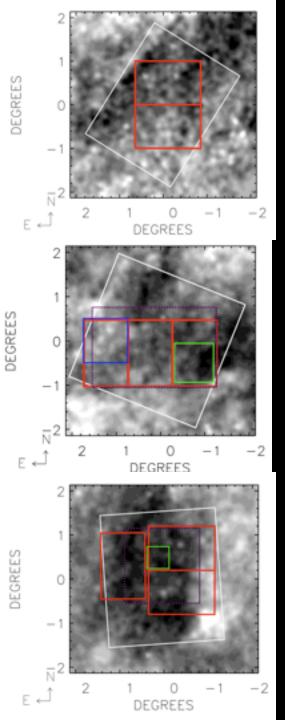
Spitzer Representative Volume Survey (SERVS) approved to cover VIDEO survey regions + LH and Elais-N1

(1400 hours allocated – PI Mark Lacy)

Management: Matt Jarvis, Seb Oliver and Duncan Farrah

Will provide 3.6 and 4.5um data to slightly deeper levels than the VIDEO depths (L* at z>5)

May consider ingesting SERVS into WFAU (not much data – as part of VIDEO)



Spitzer Representative Volume Survey (SERVS) approved to cover VIDEO survey regions + LH and Elais-N1

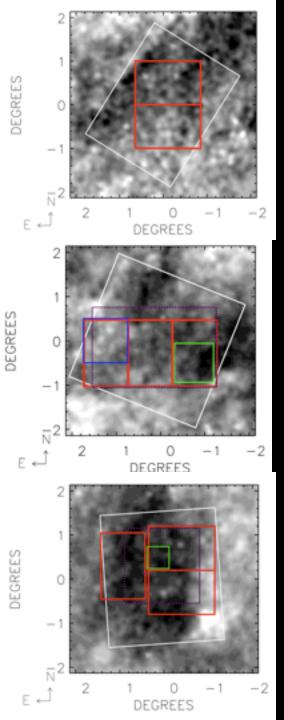
(1400 hours allocated – PI Mark Lacy)

Management: Matt Jarvis, Seb Oliver and Duncan Farrah

Will provide 3.6 and 4.5um data to slightly deeper levels than the VIDEO depths (L* at z>5)

May consider ingesting SERVS into WFAU (not much data – as part of VIDEO)

VIDEO entering data sharing agreement with the Dark Energy Survey. DES will have grizy photometry over VIDEO regions to depths of AB~27 (5sigma)



Spitzer Representative Volume Survey (SERVS) approved to cover VIDEO survey regions + LH and Elais-N1

(1400 hours allocated – PI Mark Lacy)

Management: Matt Jarvis, Seb Oliver and Duncan Farrah

Will provide 3.6 and 4.5um data to slightly deeper levels than the VIDEO depths (L* at z>5)

May consider ingesting SERVS into WFAU (not much data – as part of VIDEO)

VIDEO entering data sharing agreement with the Dark Energy Survey. DES will have grizy photometry over VIDEO regions to depths of AB~27 (5sigma)

Concentrating on SNe science initially.

Planned papers from Dry-Run (14 so far)

- The VIDEO Survey Jarvis, Bonfield et al.
- 3-D clustering as a function of mass and redshift Bonfield, Jarvis et al.
- 2-D clustering of DRGs Parish et al.
- z~6 LBGs/QSOs in VIDEO McLure et al.
- Galaxy evolution as a function of environment Burton, Jarvis et al.
- Stellar mass and star formation (with HerMES) Hurley, Oliver et al.
- ID of opticall blank FIR sources (with HerMES) Oliver, Hurley et al.
- HzRGs and their environments Teimourian, Jarvis et al.
- Galaxy clusters in VIDEO Geach, Smail, Jarvis et al.
- SEDs of X-ray selected EROs Trichas et al.
- z~5 LBGs/QSOs in VIDEO (with SERVs) Verma, et al.
- Tracing the assembly of massive galaxies at high-z Bruce, McLure et al.
- Contribution of mergers to the mass assembly at high-z de Ravel et al.
- Old passive galaxies at 1<z<2 Caputi et al.