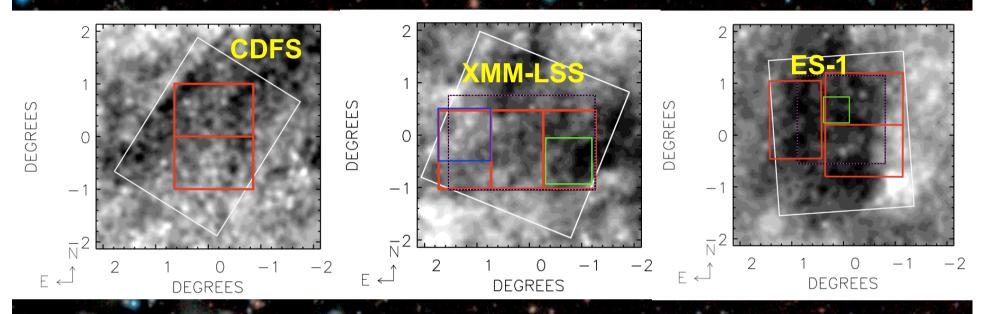


Matt Jarvis (PI), David Bonfield University of Hertfordshire



The VIDEO Survey



	Filter	Time (per source)	Time (full survey)	5σ AB	5σ Vega	UKIDSS -DXS	Seei ng	Moon
ı	Z	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
	Н	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

Survey Progress

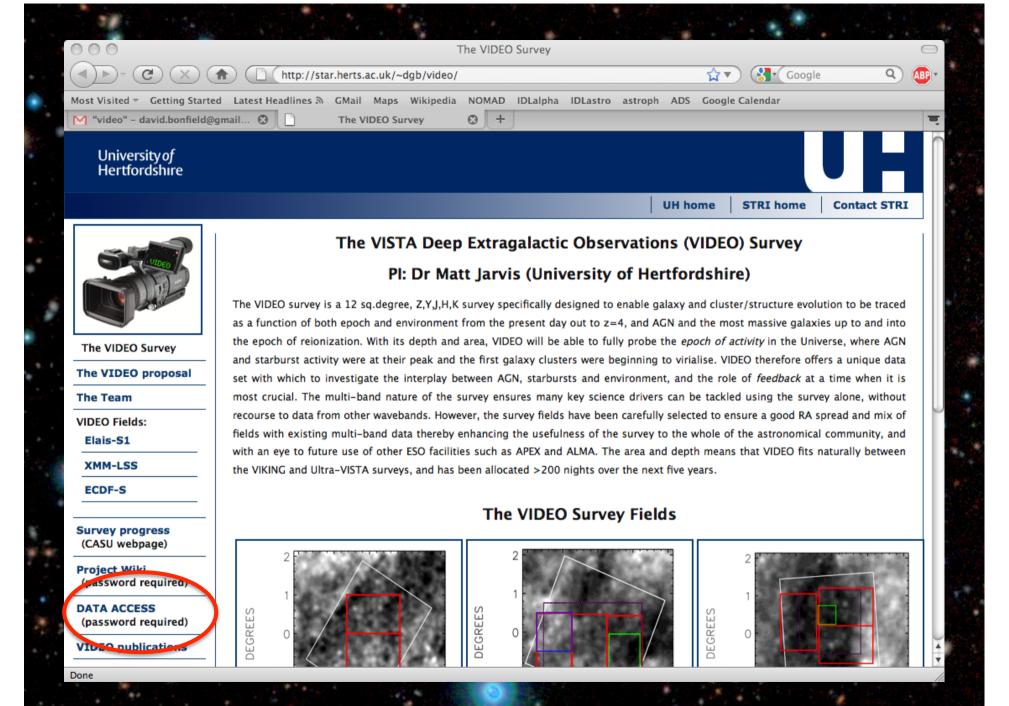
At end of dry run:

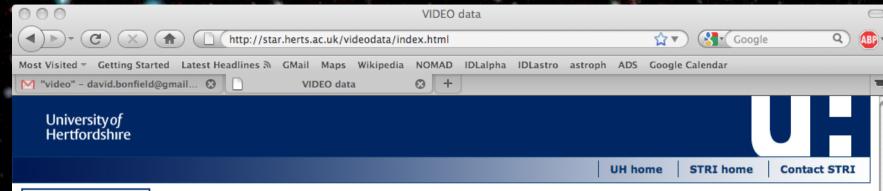
- Approximately half exposure time in YJHKs in one XMM tile (xmm3)

(this is slightly different from the SMP to take advantage of the CFHTLS deep optical data within this tile)

5-sigma depth, 2" aperture, point source, AB mags:

- Y=24.4, J=24.5, H=23.8, Ks=23.5 (BUT seeing 0.9")
- CASU pawprint stacks used to create deep tile stacks
- now available to VIDEO consortium
- Tile stacks also passed to WFAU, who will generate catalogues for each tile and store in VSA.







The VIDEO Survey

The VIDEO proposal

The Team

VIDEO Fields:

Elais-S1

XMM-LSS

ECDF-S

Survey progress (CASU webpage)

Project Wiki (password required)

DATA ACCESS (password required)

VIDEO publications

VIDEO data access

24 Nov 2010: First stacks and catalogues - xmm3 tile

We currently have approximately half the full survey depth (in terms of exposure time) in each of the Y, J, H, and Ks filters for the "xmm3" tile of the XMM-LSS field. This tile includes the whole of the CFHTLS D1 deep optical field, so we have made extra stacks to match that data.

Image stacks have been made using **SWarp** and are a weighted mean combine of pawprint stacks produced from the raw data by **CASU**, rejecting pawprint stacks with seeing worse than 0.9" FWHM. The current stacks include data up to the end of the VISTA dry-run, which took place at the end of 2009 and early 2010.

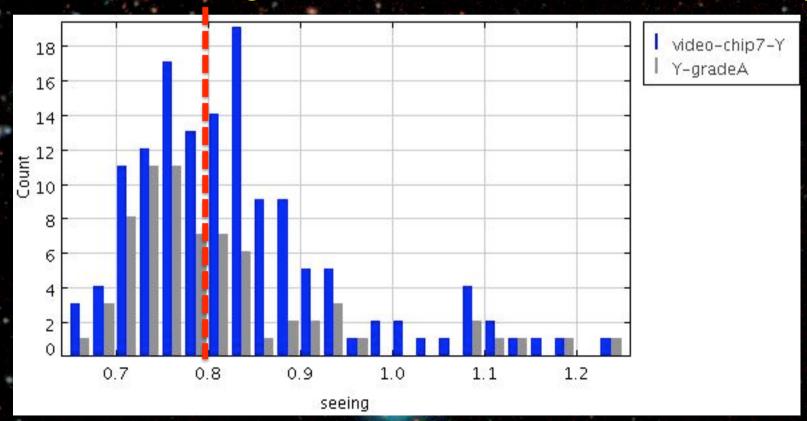
- The standard set of images has a pixel scale of 0.2"/pixel, and includes the full VIDEO tile area. Each image is ~2.3 GB in size.
 - o Y-band image, confidence map, and SWarp xml log (click the log to view it)
 - o J-band image, confidence map, and SWarp xml log
 - · H-band image, confidence map, and SWarp xml log
 - Ks-band image, confidence map, and SWarp xml log
- The extra set of images has been projected to match the pixel scale (0.186"/pixel), projection centre, and total image size of the
 CFHTLS D1 images, for convenience in combining it with this optical data; but note this stack does not cover the full area of
 the VIDEO tile. Each image is ~1.4 GB in size.
 - Y-band image, confidence map, and SWarp xml log
 - J-band image, confidence map, and SWarp xml log
 - H-band image, confidence map, and SWarp xml log
 - Ks-band image, confidence map, and SWarp xml log

Done

Confusion over grading

ESO grading of OBs not consistent with measured seeing in reduced data.

(Are there enough stars to measure in QC0 data?)



Images look good... YJKs composite 6 arcmin