## **CFHT Megacam proposals: Large Scale Structures**

(proposals assigned to O. Le Fèvre)

Proposal	Filters	Limiting	Number of 1x1deg <sup>2</sup>	Sky location	Scheduling	Total program
		magnitudes	pointings		requirements	time
1. XMM serendipitous x-ray sky	BVRI?	25	100 ?	Existing XMM pointings	None (assume XMM	?
survey (Guillout)				(all over sky)	observations exist)	
2. Megacam survey of clusters of	UBVI	V=25.4, I=24 (point	100	XMM selected clusters of	None (assume XMM	55 nights
galaxies (Blanchard)		source, 3σ)		galaxies	observations exist)	
	BVRI	I=24.3				
3. A combined MEGACAM/XMM/	(U)BVRI	AB: I=24.8 (1h),	64 deg <sup>2</sup>	$\alpha$ =02h20, $\delta$ =-5°	None	45 nights
VIRMOS LSS survey (Pierre)		R=25.4 (1h), V=25.4				
		(1h30), B=25.7 (2h),				(+40)
		(U=26.1)				
4. Mapping the large scale	UBVRIz	AB~25	100 deg <sup>2</sup>	High galactic latitude	None	100 nights
structures and the evolution of		(3" aperture, 5σ)				
galaxies on 100 deg2 (Le Fèvre)		U: 2h30, B=1h30,				
		V=1h, R=1h, I=1h,				
		z=1.2h				
5. A MegaPrime ultra deep survey	UBVRIz	AB~28.5	1 deg <sup>2</sup>	$\alpha$ =02h20, $\delta$ =-5°	None	60 nigths
(Le Fèvre)		(3" aperture, 5σ)			(but may be interesting to	
		U: 150h, B=100h,			look for variable objects)	
		V=70h, R=70h,				
		I=70h, z=85h				

- Programs 3 and 4 can easily be combined into one single observing program
- Program 5 can be conducted on one of the pointings of programs 3/4
- Programs 3, 4, 6 (Mellier), and 8 (Kaiser) can most probably be combined into one single observing program
- The program from Cuby should be combined with 3, 4, 6, 8

## Comments:

- 1. I feel that 6 weeks a year allocated to Megacam surveys are really not enough if we want CFHT to keep having an impact in worlwide astronomy. 50% of dark time on large surveys with Megacam could be a goal: ~90 nights per year
- 2. Queue scheduling / service observing would be the best way to conduct large surveys