

## A429 NOTES ON PHOTOMETRY

KRISTI WEBB

### 1. CB68

CB68 has curve of growths which are close to the fitted curves.

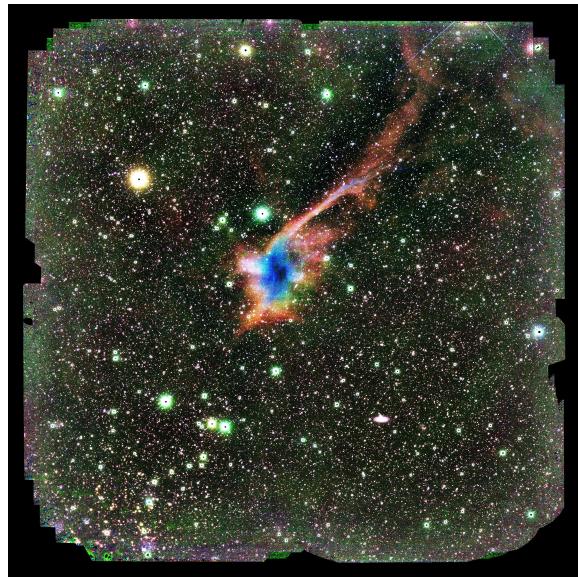


FIGURE 1. CB68 JHK

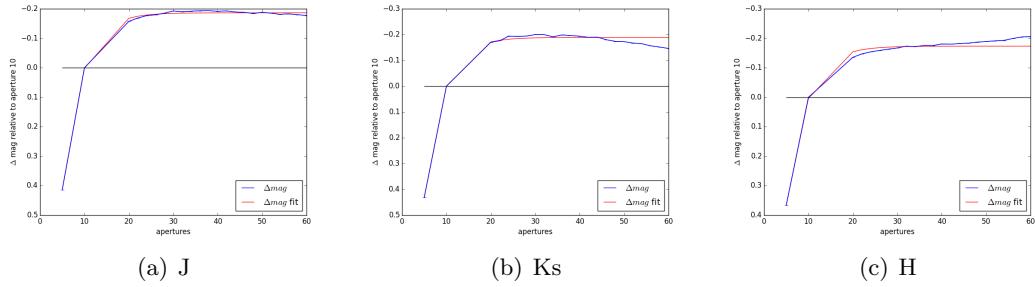


FIGURE 2. CB68 threshold 20

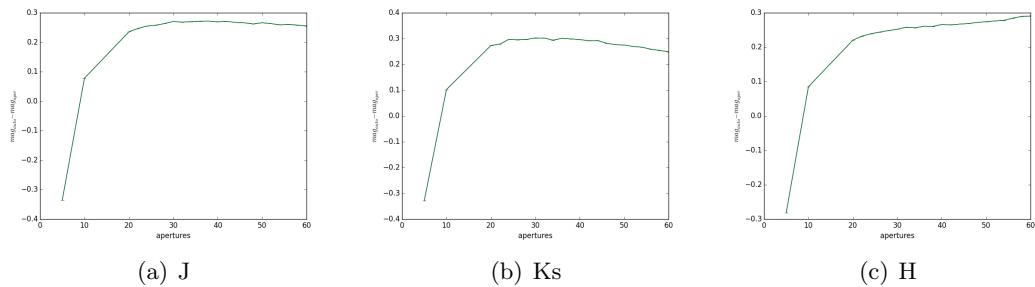


FIGURE 3. CB68 threshold 20 diff

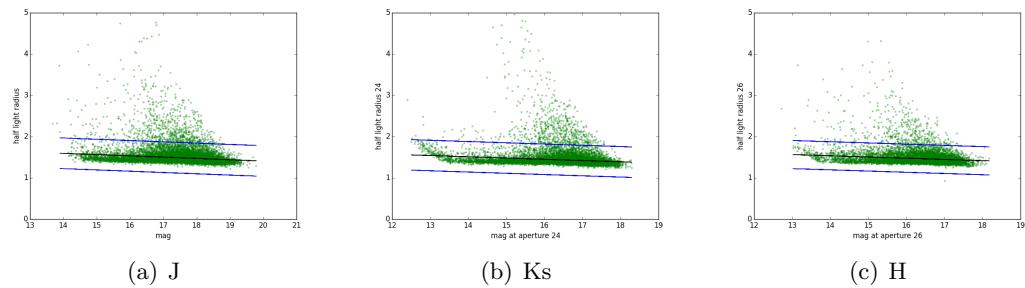


FIGURE 4. CB68 threshold 20 halflight

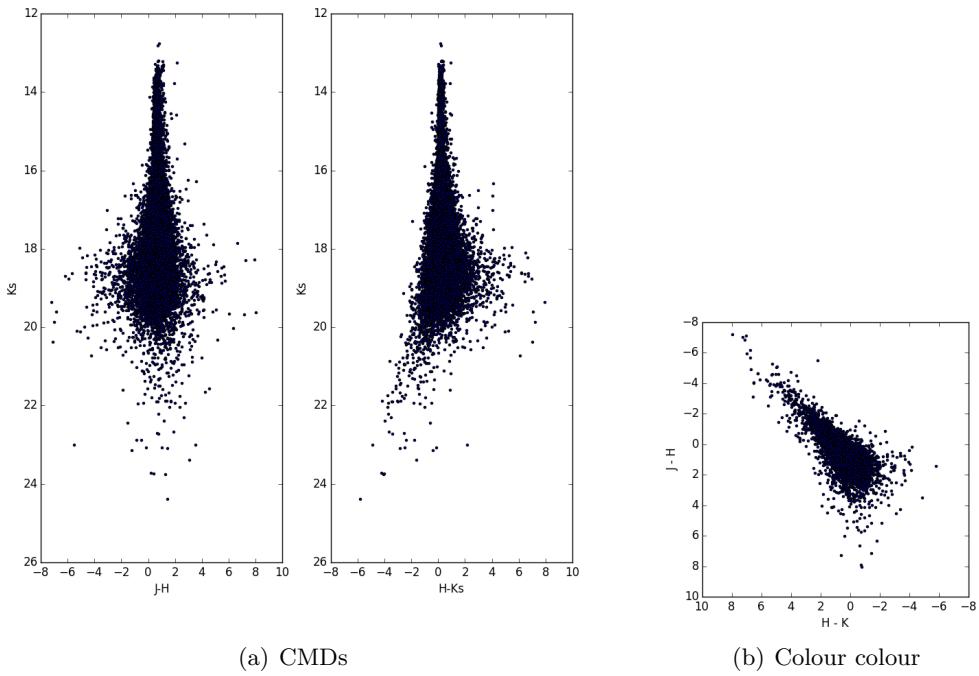


FIGURE 5. CB68 colours

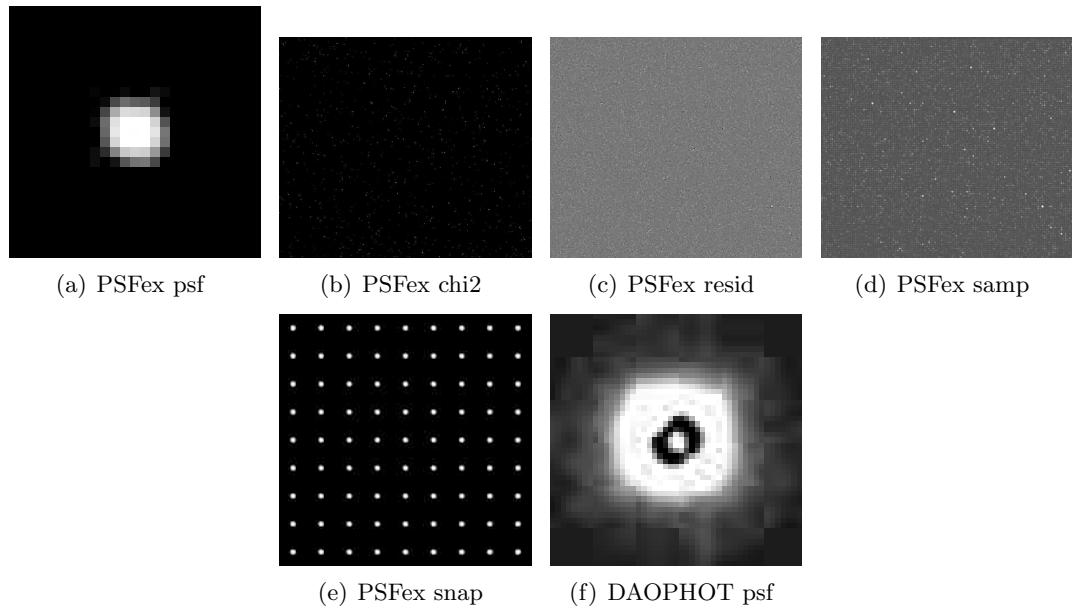


FIGURE 6. CB68 psfs

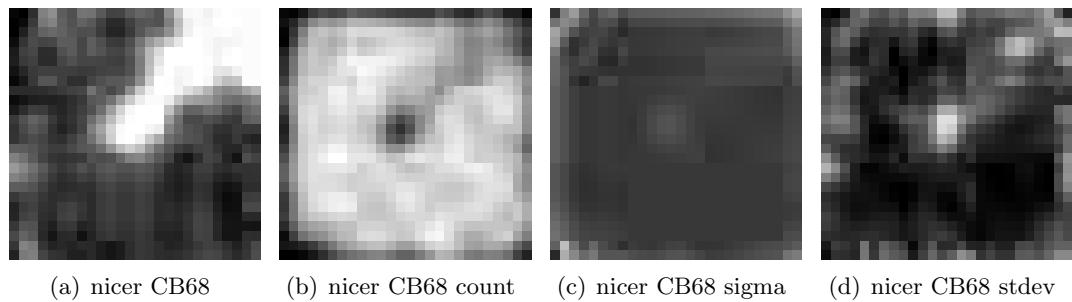


FIGURE 7. CB68 NICER maps

Cloud	Band	Aperture [pix]	zeropoint offset	var in avg.	$\sigma$	mean mag	var
CB68	J	30	-0.180268018464	2.18954349099	8362.93650512	15.3601689267	1.21279584699
	Ks	24	-0.129103512792	1.50309444298	6098.75452149	14.214040796	1.06273121833
	H	30	-0.202377027628	1.71815388109	9319.38290835	14.0175438309	1.21526399644
L429	J	24	-0.227070820053	1.77098562458	16701.134431	14.8993794015	0.825385234563
	Ks	24	-1.54257582313	1.95412515199	16482.0210614	14.8943402308	0.814672876059
	H	20	-1.23418863358	1.95407143257	15824.8390143	14.9323135187	0.78078927504
L1521E	J	30	-0.0511556038353	2.84593942226	7909.34026877	15.4484821421	1.61877838369
	Ks	28	-0.924219247486	2.67114528471	8192.5246769	15.4535484825	1.65986454375
	H	26	-0.665857709385	2.74565130989	9170.10780814	15.2474529443	1.78577325997
L1544	J	28	-0.131345306554	1.82703492638	9221.19564812	15.3352721091	1.72156912182
	Ks	28	-1.08119035262	2.0502835368	9907.0776577	15.1904351929	1.75030379504
	H	28	-0.910266383741	1.76445075488	10517.3639556	15.0904409351	1.75424447111
L1552	J						
	Ks						
	H						

TABLE 1. Calculated quantities for zeropoint offset removing objects with extended PSF

## 2. L429

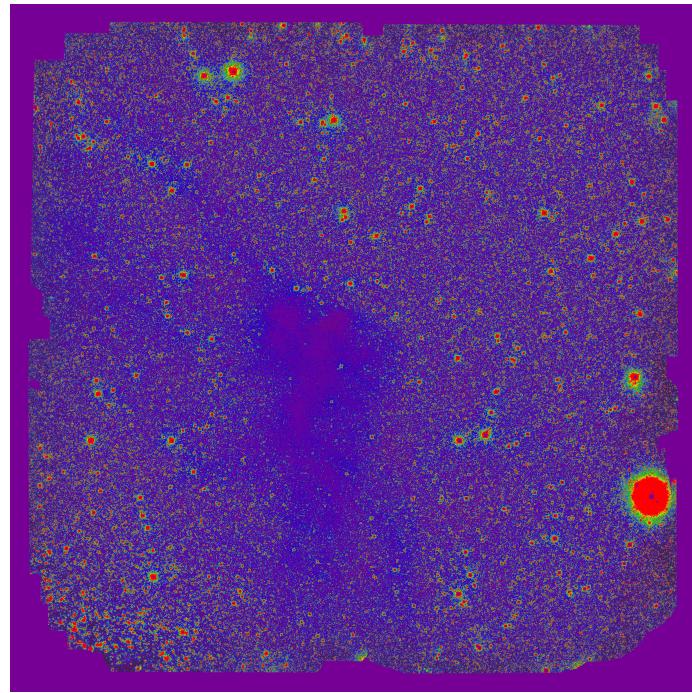


FIGURE 8. L429 J aips0

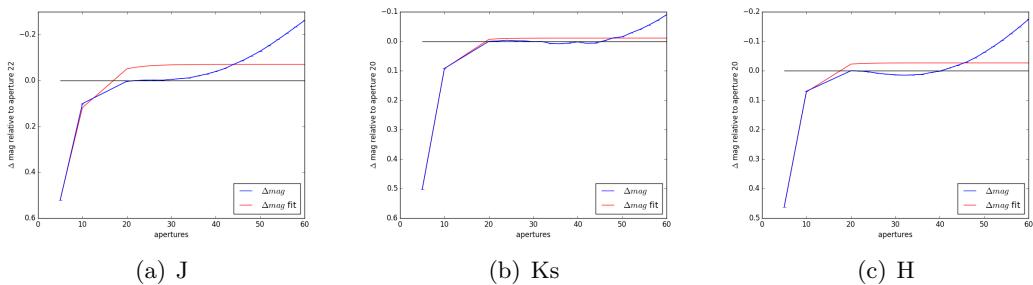


FIGURE 9. L429 threshold 20

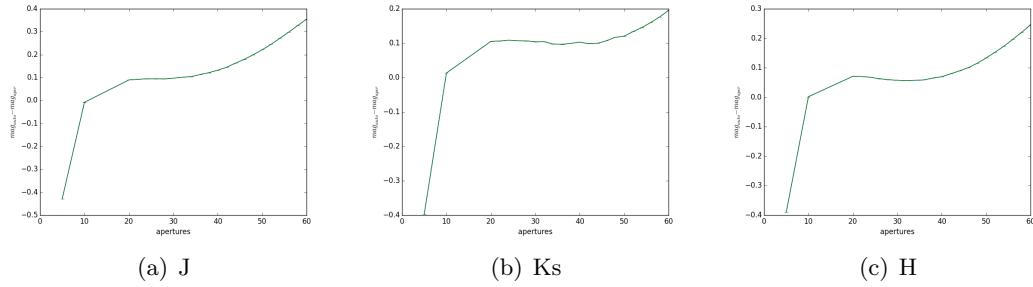


FIGURE 10. L429 threshold 20 diff

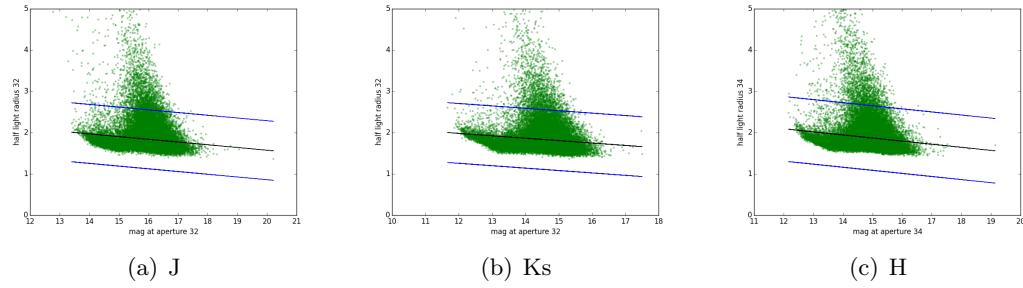


FIGURE 11. L429 threshold 20 halflight

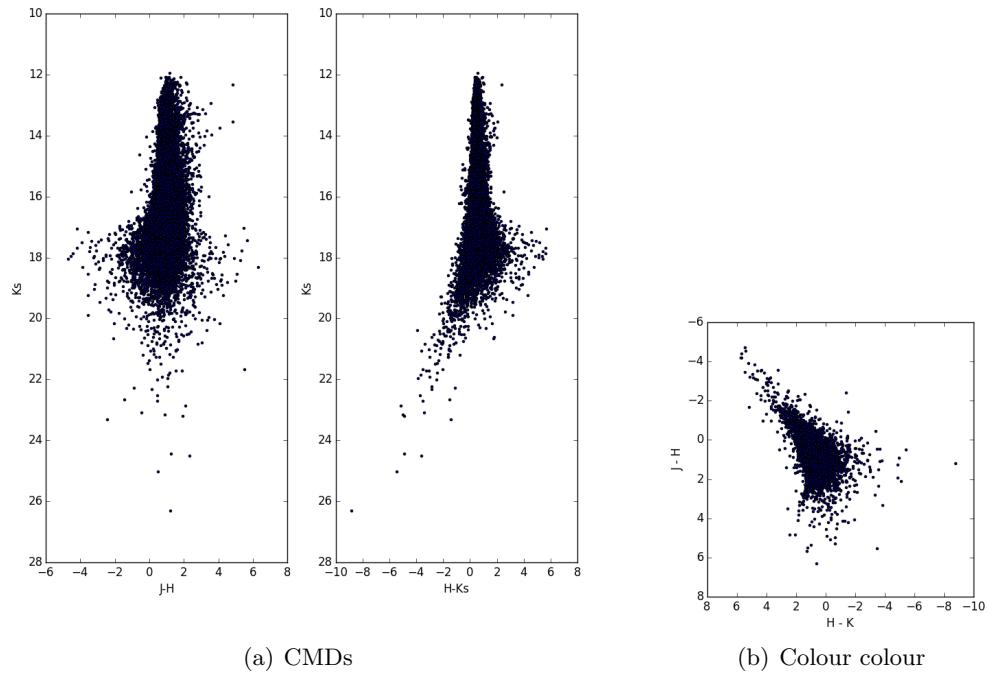


FIGURE 12. L429 colours

### 3. L1521E

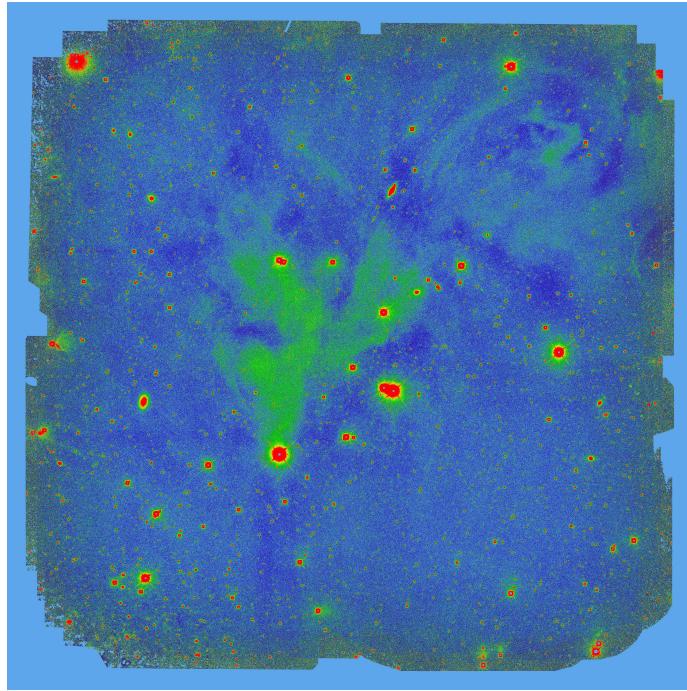


FIGURE 13. L1521E J aips0

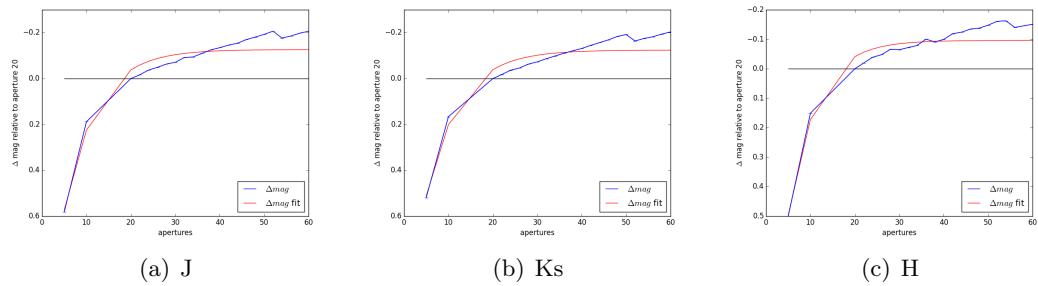


FIGURE 14. L1521E threshold 20

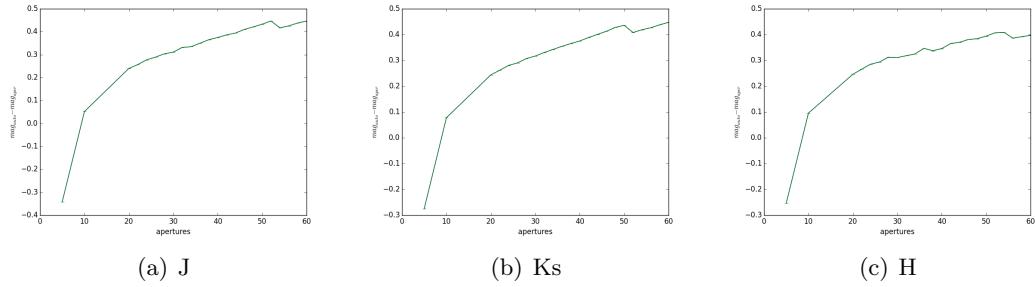


FIGURE 15. L1521E threshold 20 diff

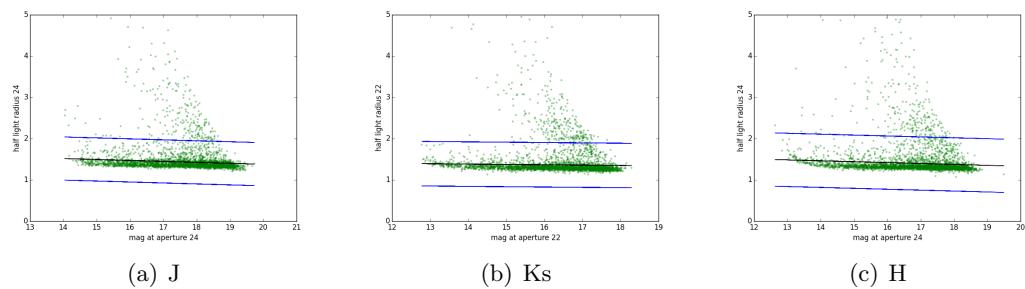


FIGURE 16. L1521E threshold 20 halflight

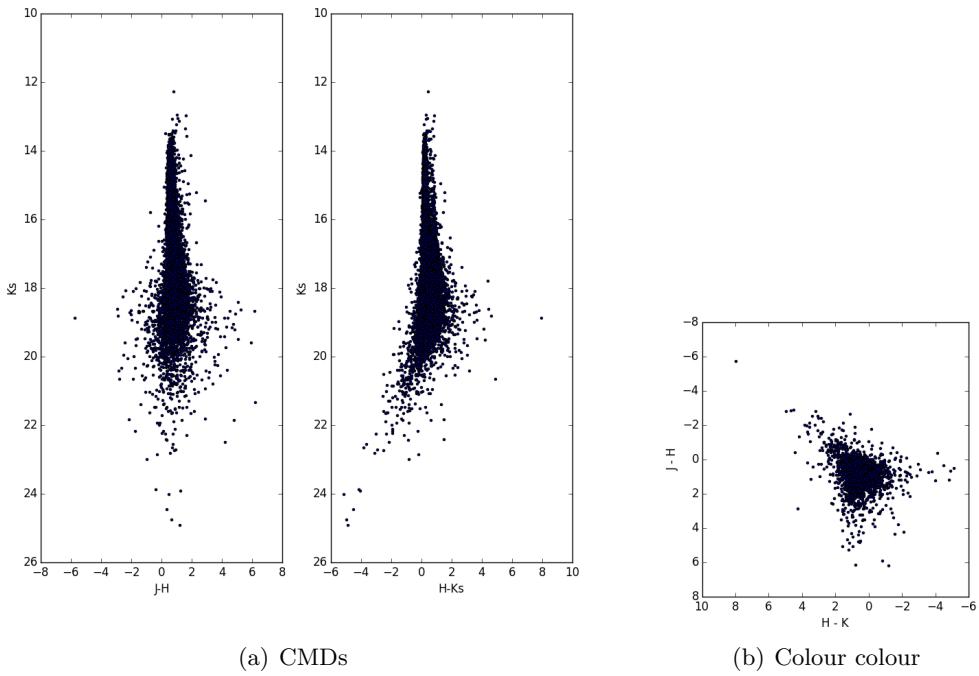


FIGURE 17. L1521E colours

4. L1544

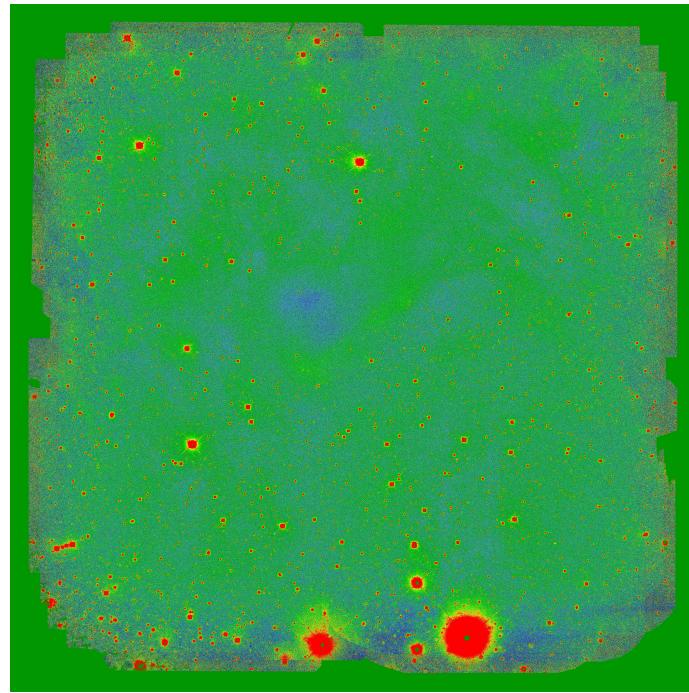


FIGURE 18. L1544 J aips0

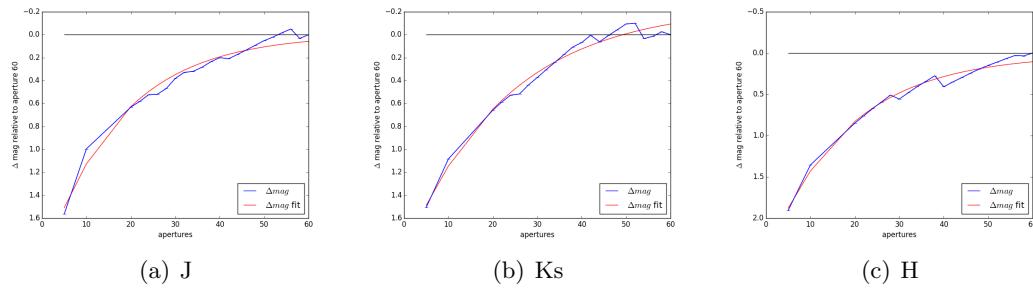


FIGURE 19. L1544 threshold 20

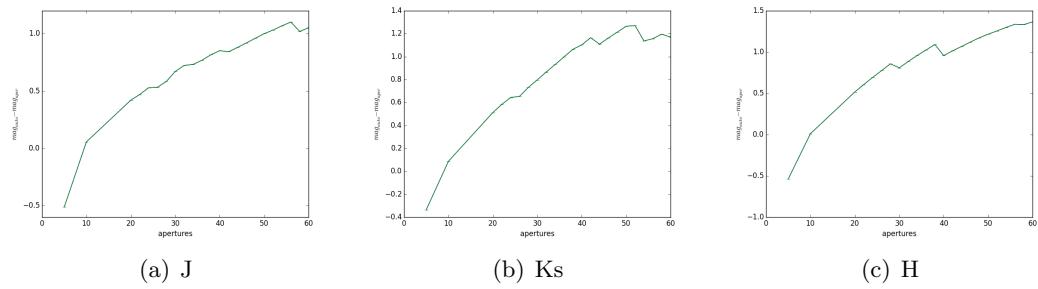


FIGURE 20. L1544 threshold 20 diff

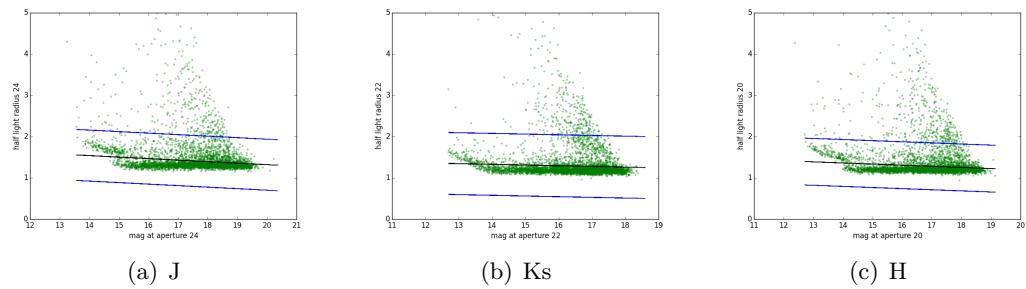


FIGURE 21. L1544 threshold 20 halflight

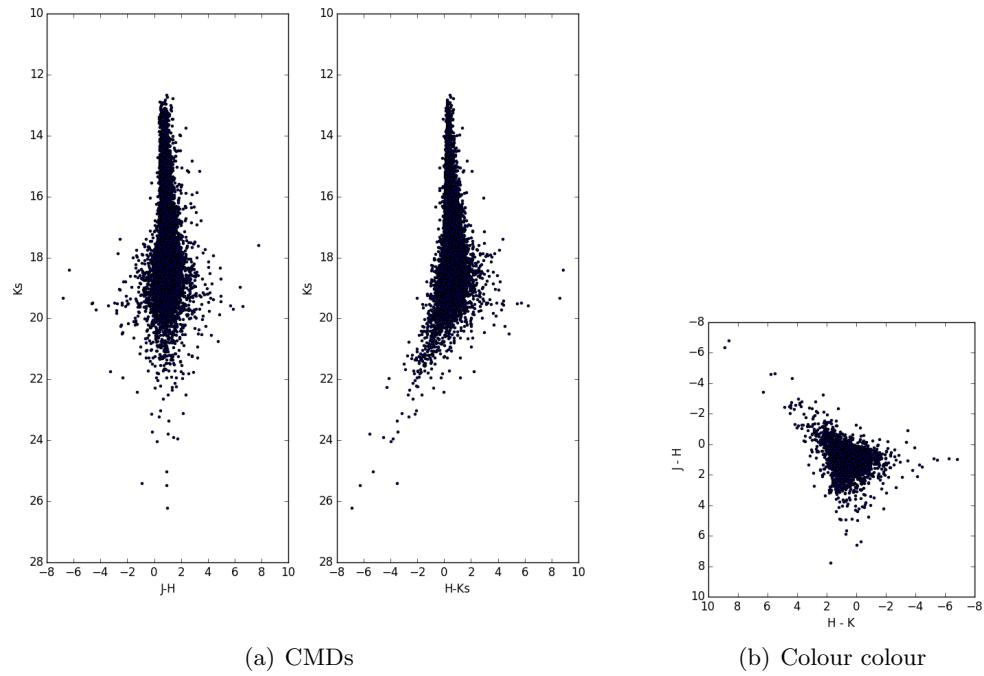


FIGURE 22. L1544 colours

5. L1552

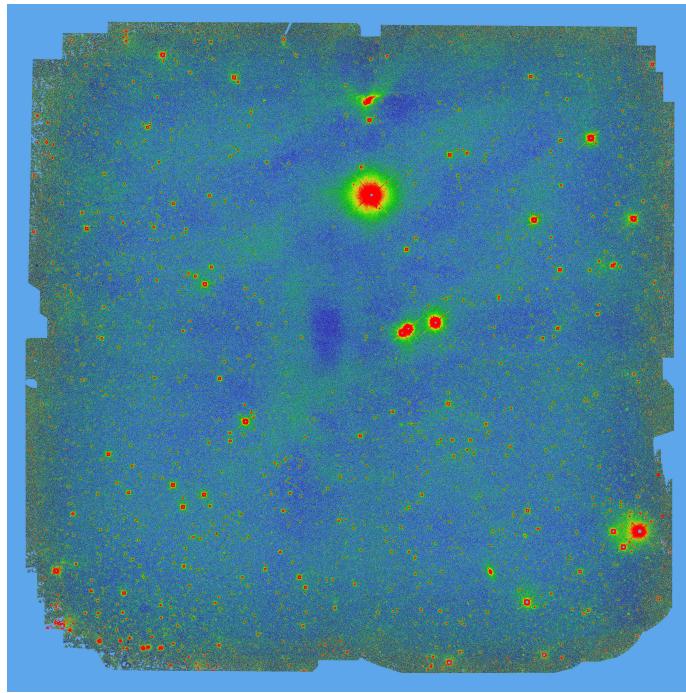


FIGURE 23. L1552 J aips0

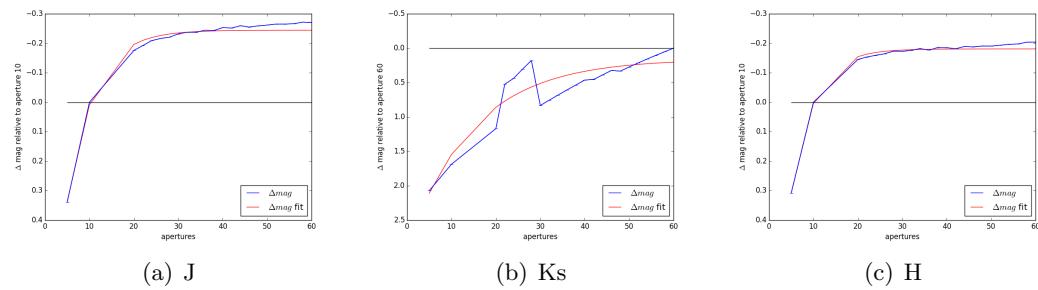


FIGURE 24. L1552 threshold 20

**5.1. CMDs.** Regions not considered in the calculation of the zeropoint offset due to reddening effects.

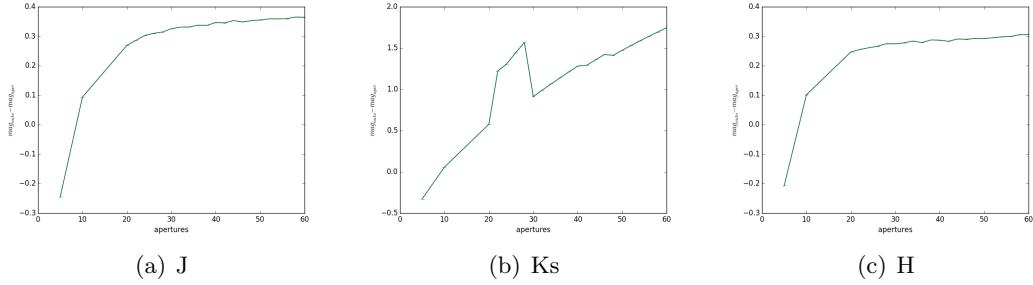


FIGURE 25. L1552 threshold 20 diff

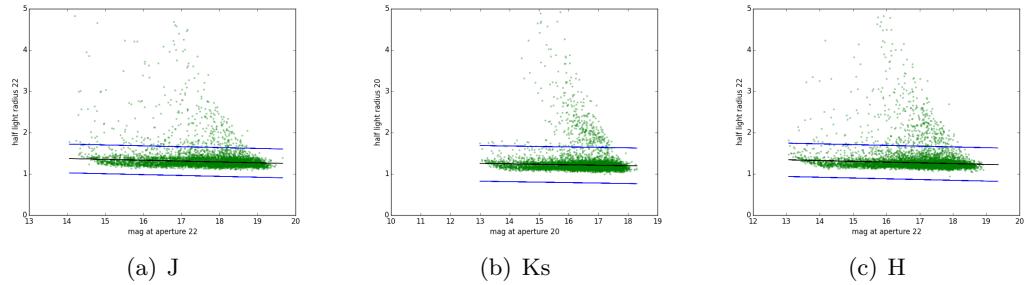


FIGURE 26. L1552 threshold 20 halfflight

Cloud	Center [pix] (x,y)	Size [pix] (x,y)
CB68	2610.6899,2868.1778	1382.2207,1227.3661
L429	2496.3232,2158.1909	1869.7259,2345.7605
L1521E	2532.6025,2753.7333	1880.5105,1777.3177
L1544	2345.069,2855.932	1788.7782,1570.9142
L1552	2710.337,2593.2019	1639.7134,177.3117

TABLE 2. Regions removed from calculation of zeropoint offset.

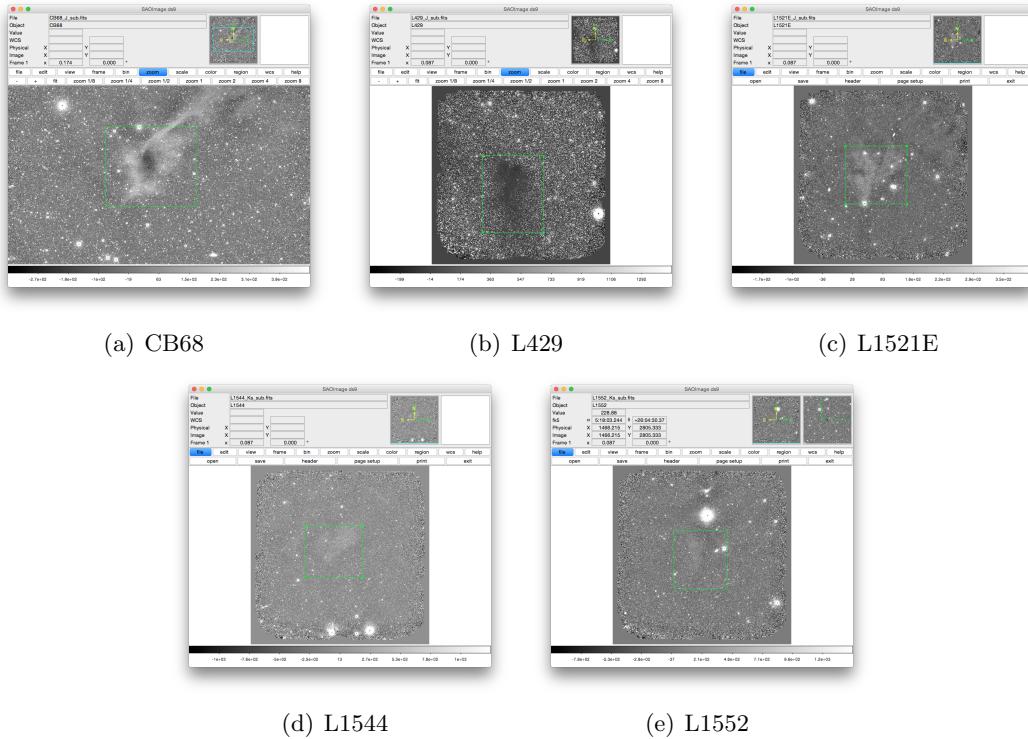


FIGURE 27. Regions removed from calculation of zeropoint