

Multiple Populations in Young Clusters

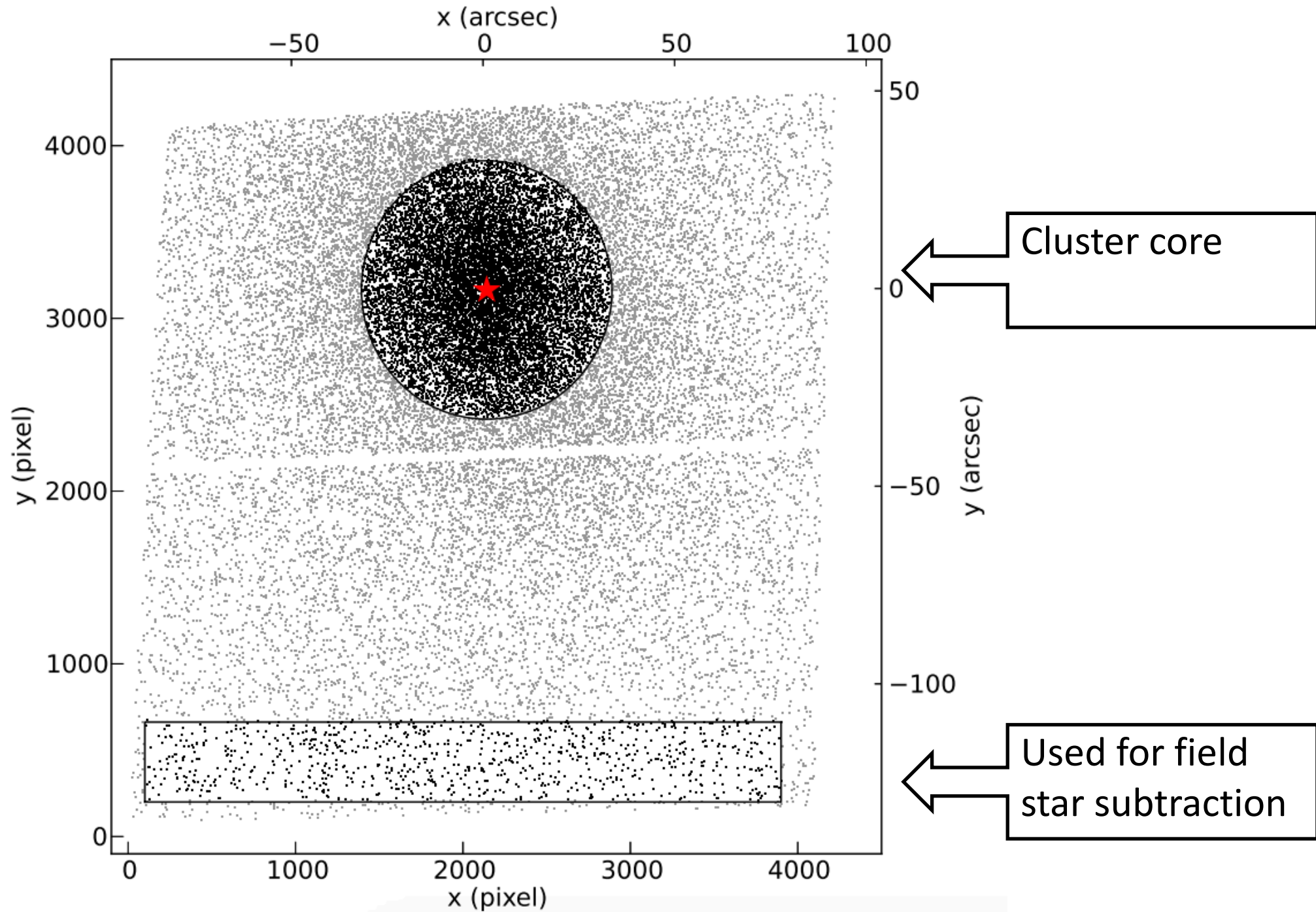
A&A 586, A148 (2016)

Controversial age spreads from the main sequence turn-off and red clump in intermediate-age clusters in the LMC*

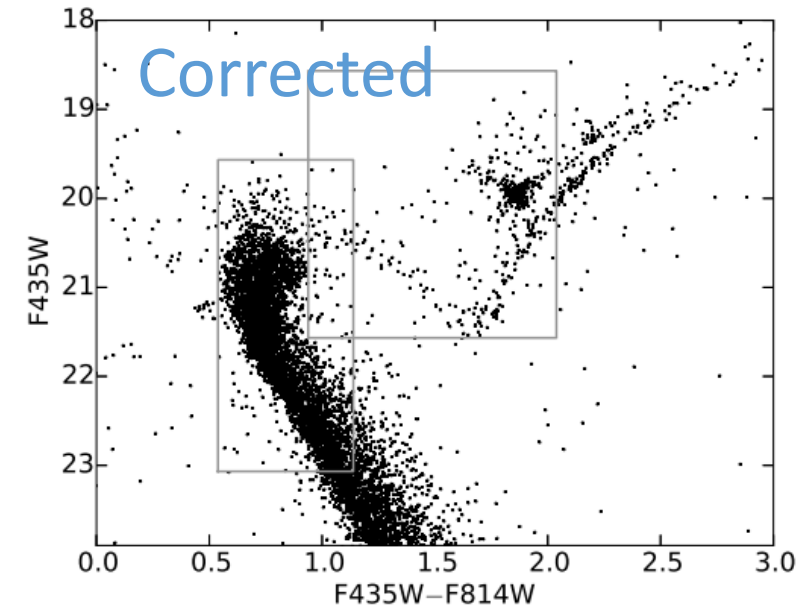
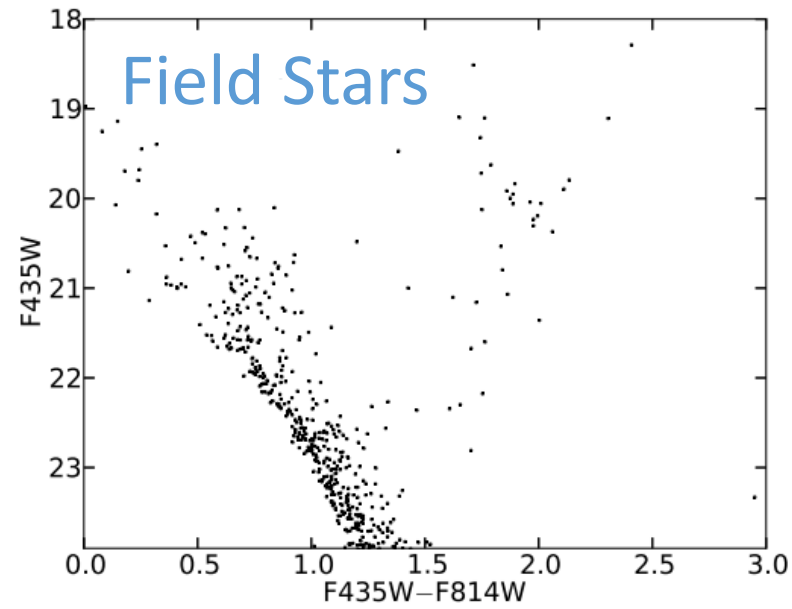
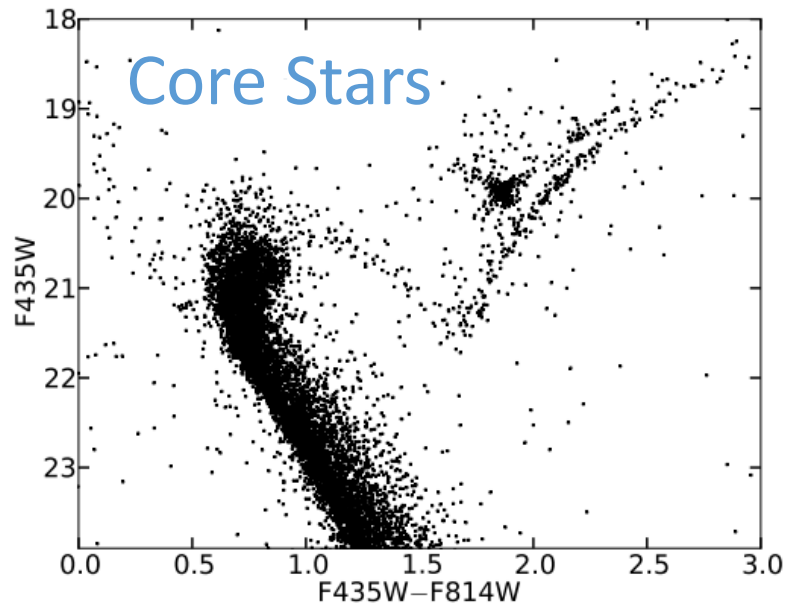
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Presenter: Ned Molter

10/12/16

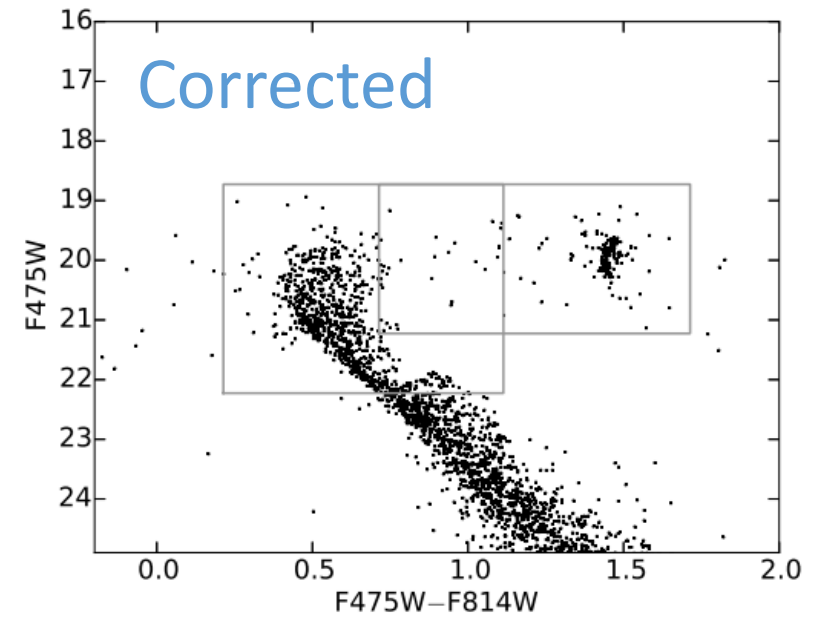
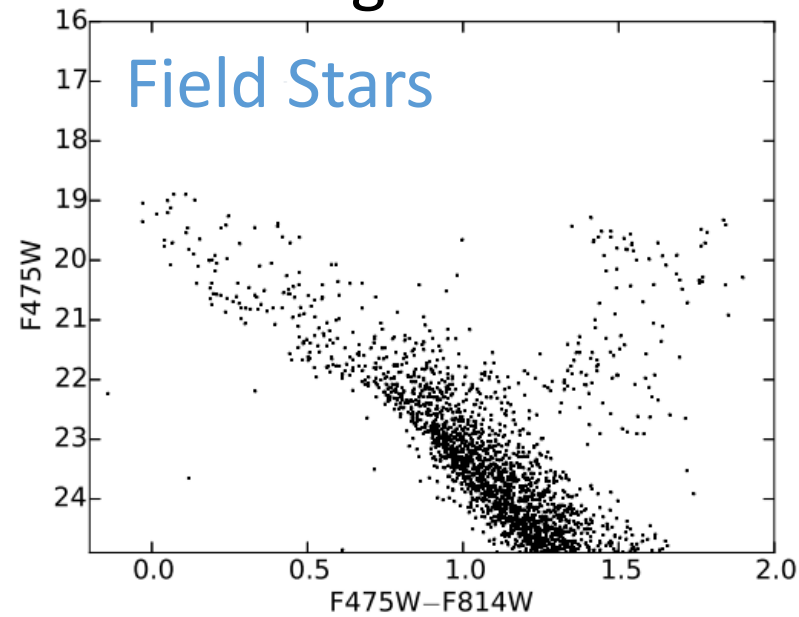
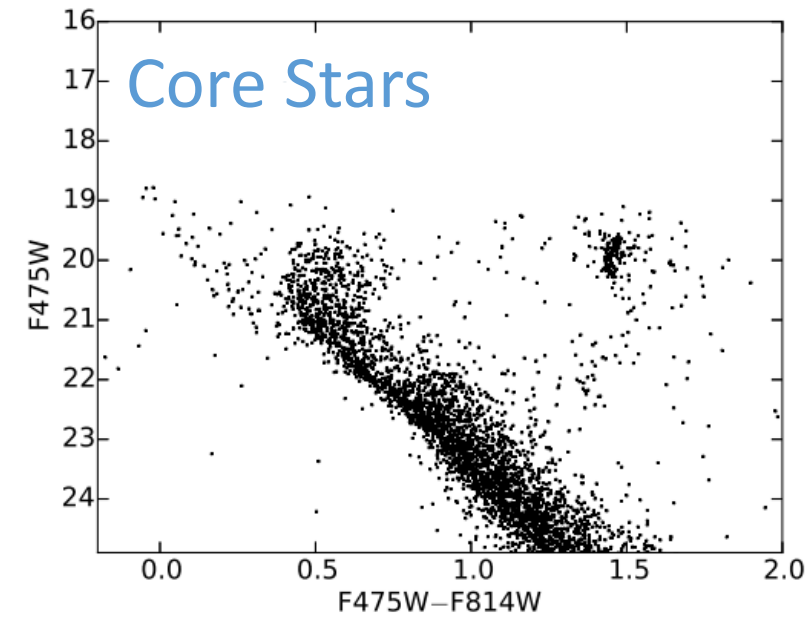


NGC 1783

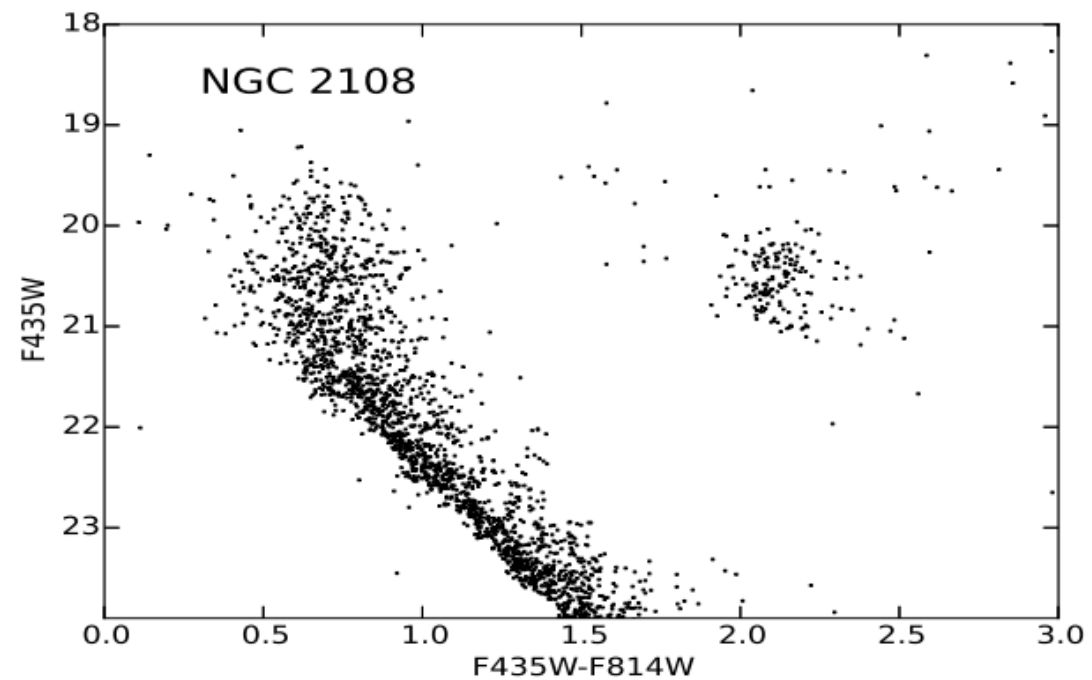


*Boxes denote where fits performed

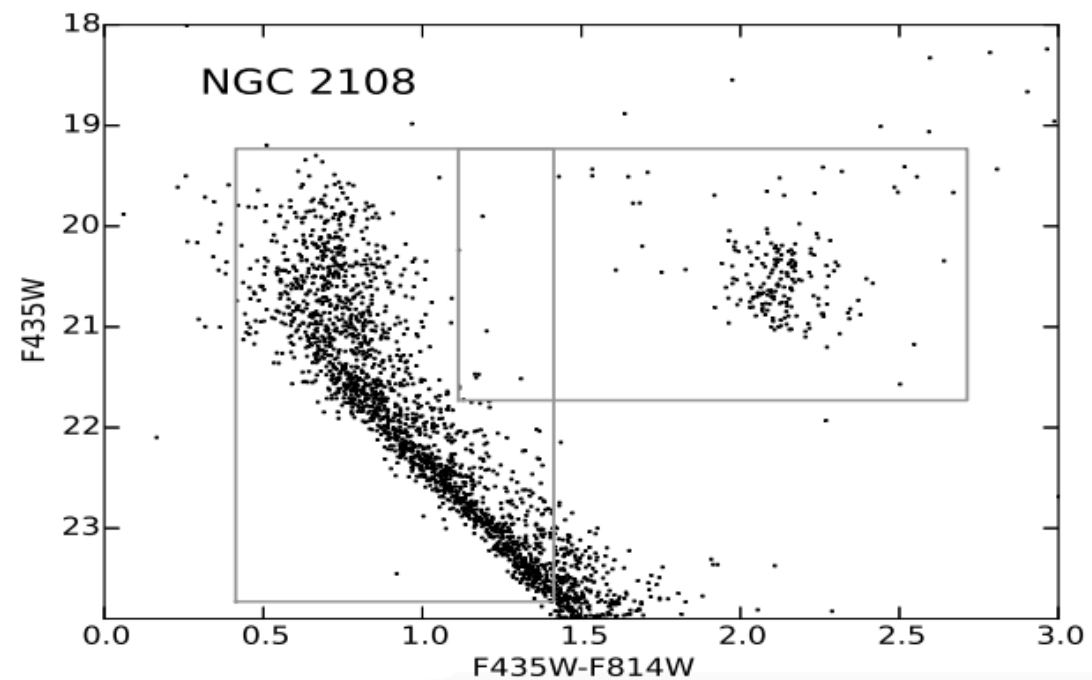
Hodge 2



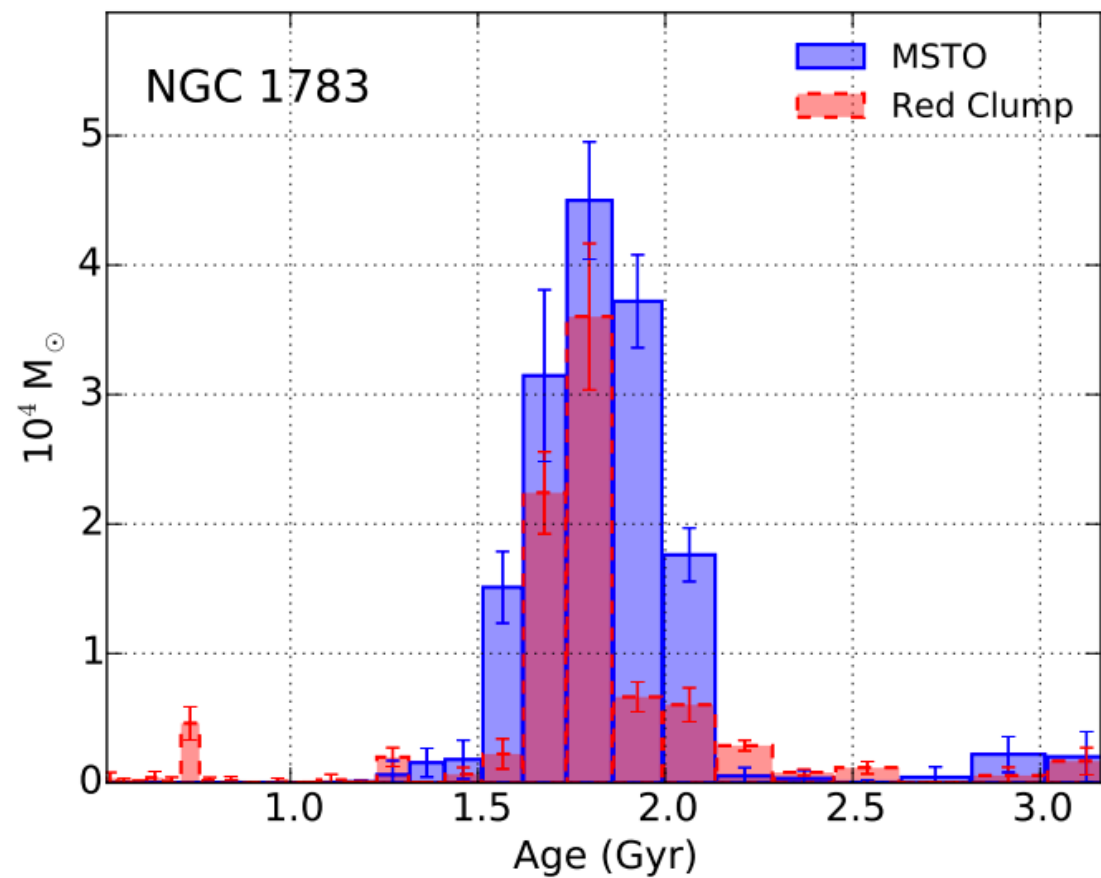
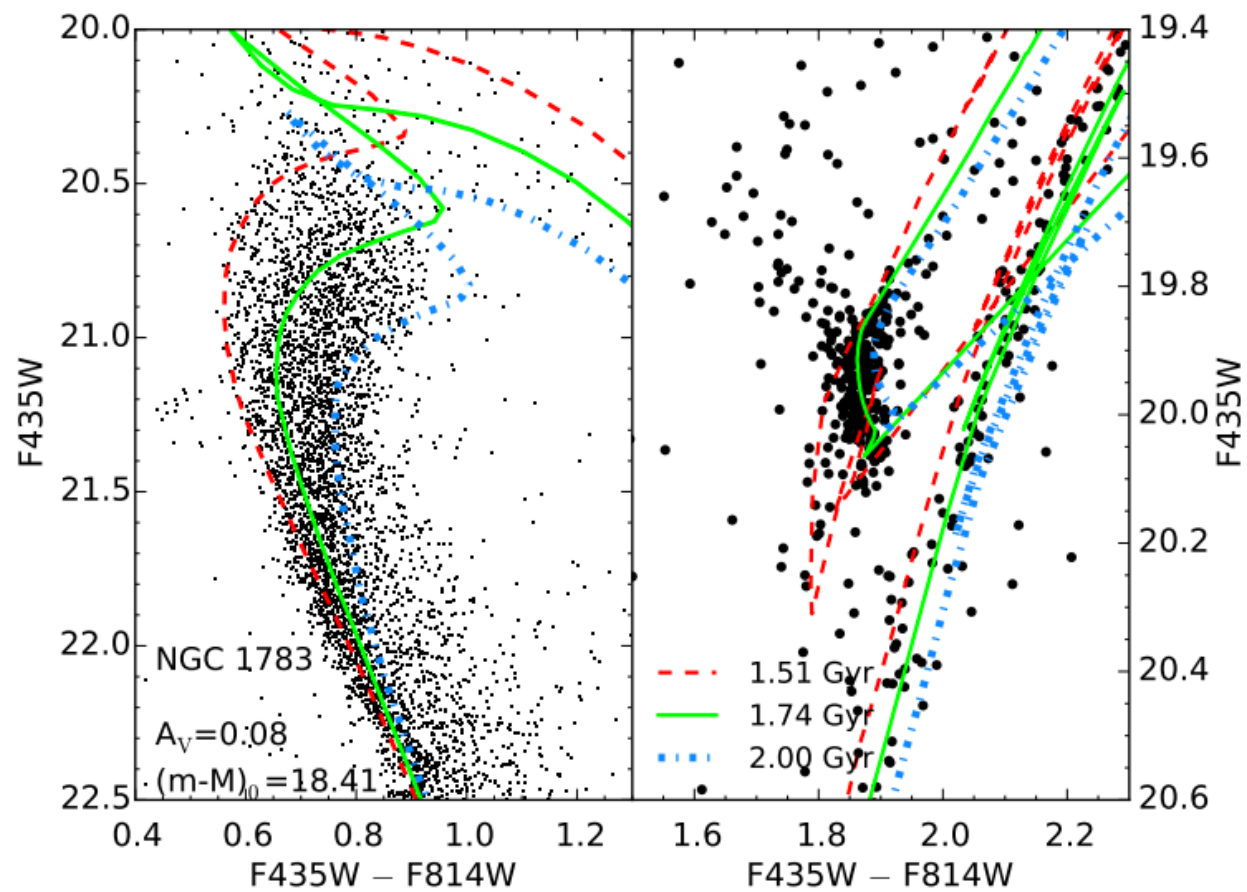
Cluster (1)	R_{core} (arcsec) (2)	R_{tidal} (arcsec) (3)	Z (4)	A_V (5)	$(m - M)_0$ (6)	Age (Gyr) (7)	$\Delta\text{Age}_{\text{RC}}$ (Myr) (8)
NGC 1783	36.7	346.8 ²	0.008	0.08	18.41	1.75	~500
LW 431	25.0	185.9 ²	0.008	0.20	18.40	1.75	~300
NGC 1987	23.2	270 ²	0.008	0.16	18.37	1.15	<80
NGC 2203	32.9 ¹	161.2 ¹	0.008	0.19	18.41	1.75	~200
NGC 1718	15.4 ¹	114.0 ¹	0.008	0.53	18.54	1.75	<100
NGC 1651	18.8 ¹	545.2 ¹	0.008	0.23	18.48	2.00	~200
NGC 2213	11.1 ¹	66.6 ¹	0.008	0.16	18.40	1.75	~200
NGC 2173	14.5 ¹	165.3 ¹	0.008	0.23	18.37	1.70	~400
Hodge 2	11.0 ¹	473 ¹	0.008	0.19	18.45	1.45	~400
NGC 2108	24.2	132.8 ²	0.008	0.54	18.40	1.00	~300
NGC 1806	29.3	196 ²	0.008	0.11	18.54	1.70	~500
NGC 1846	37.2	161.2 ³	0.008	0.11	18.44	1.75	~200

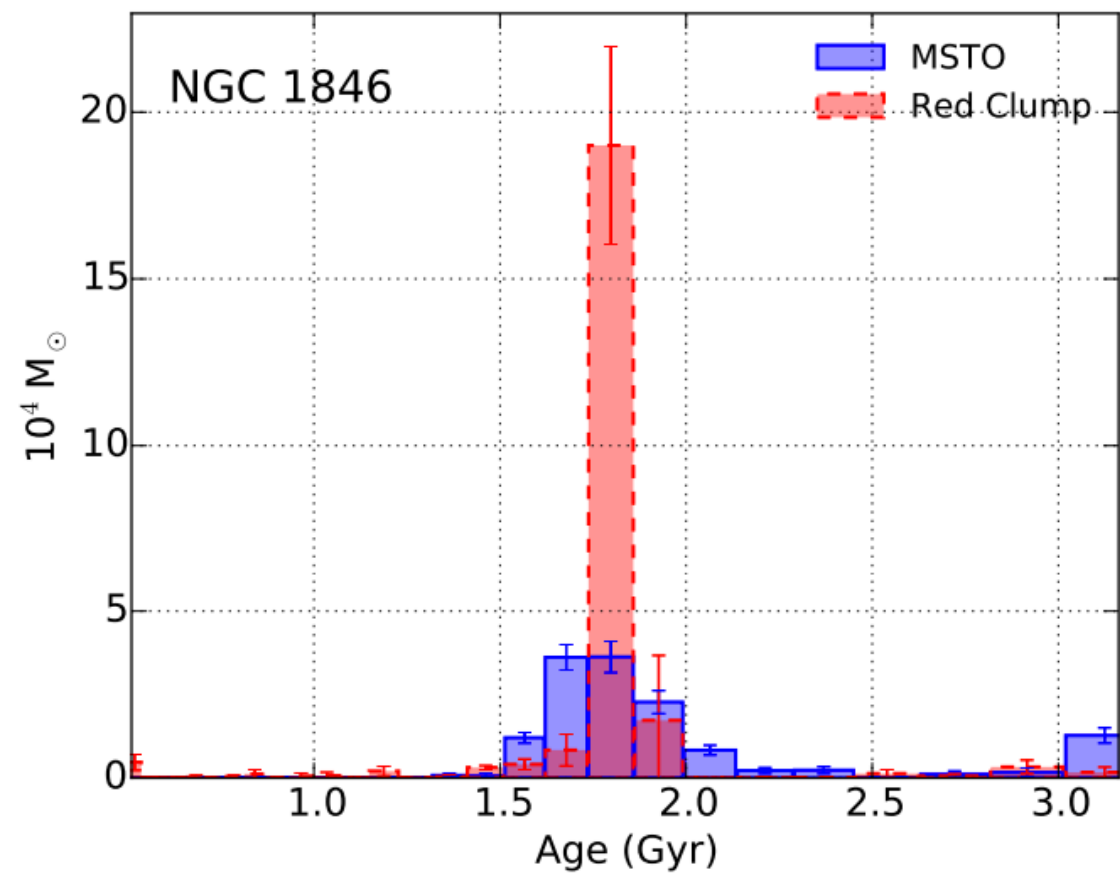
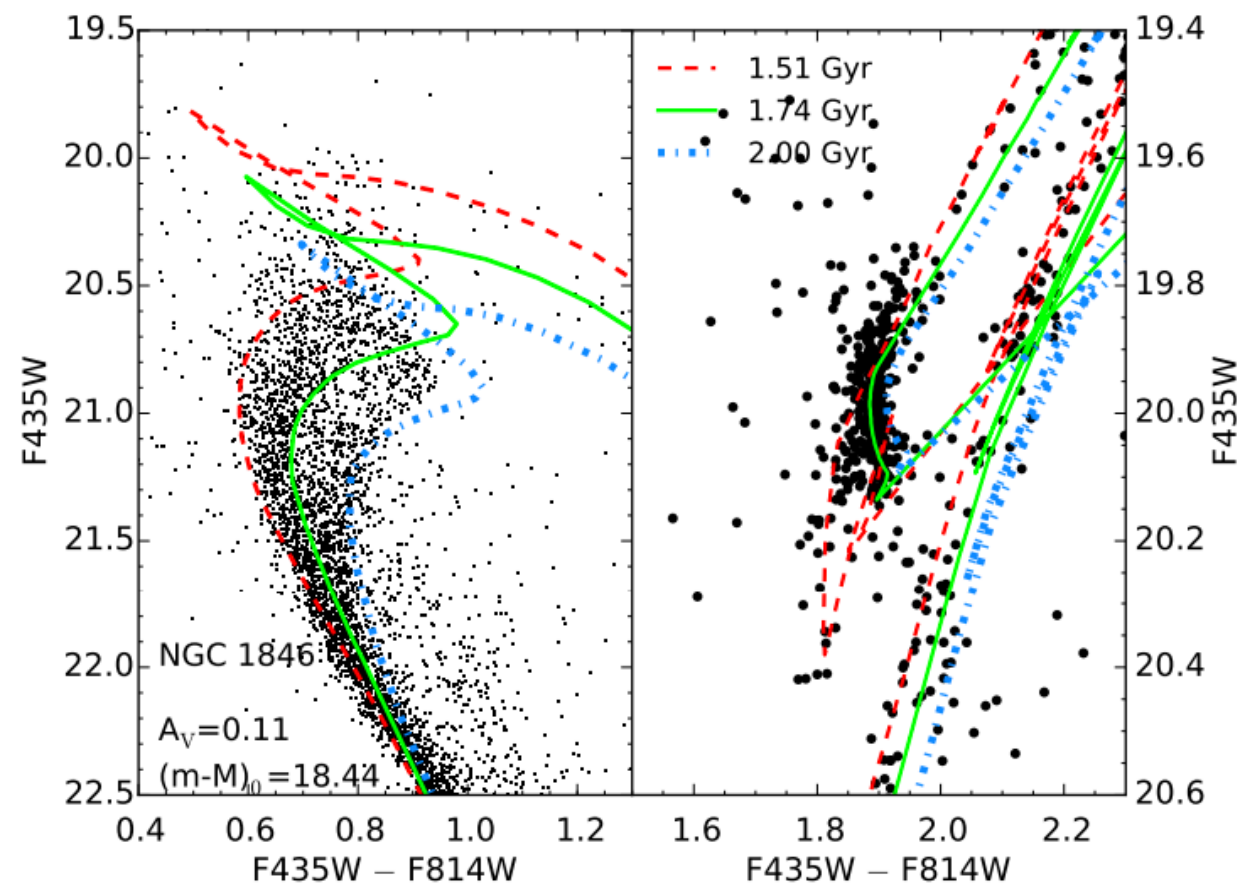


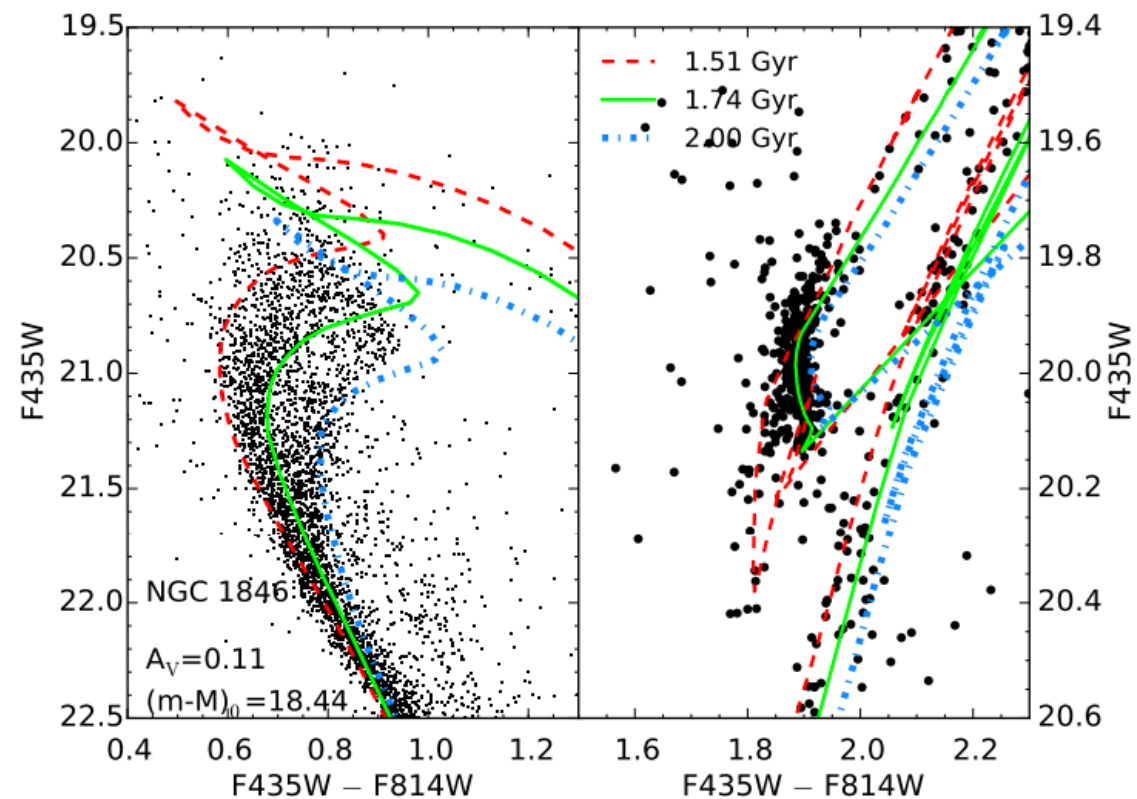
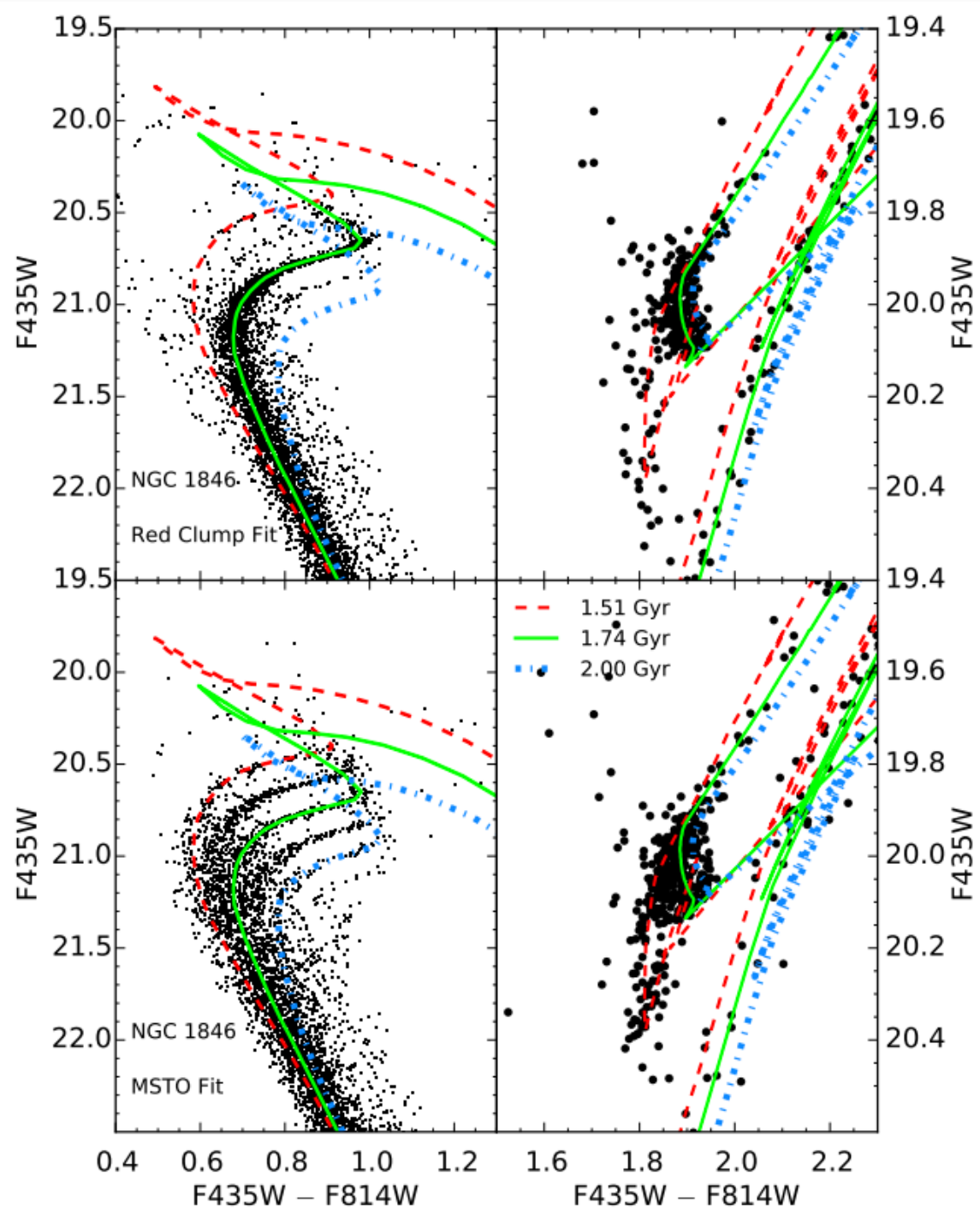
Before
Extinction
Correction



After
Extinction
Correction

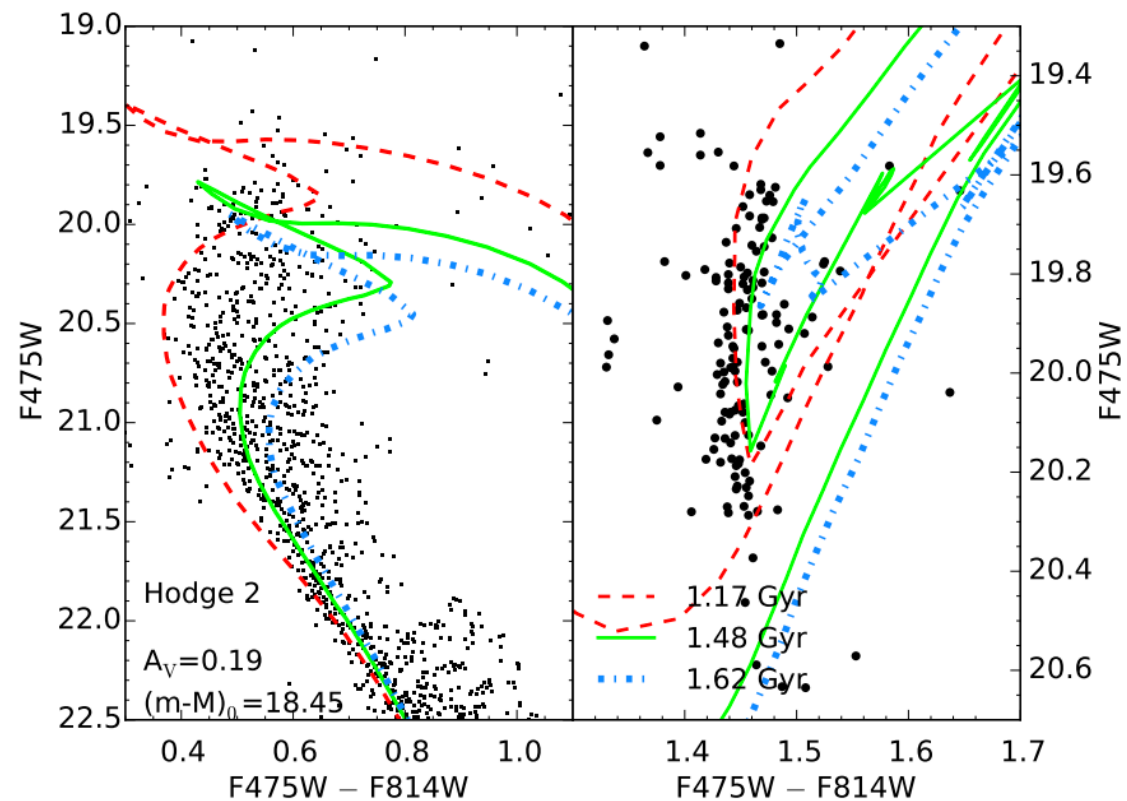
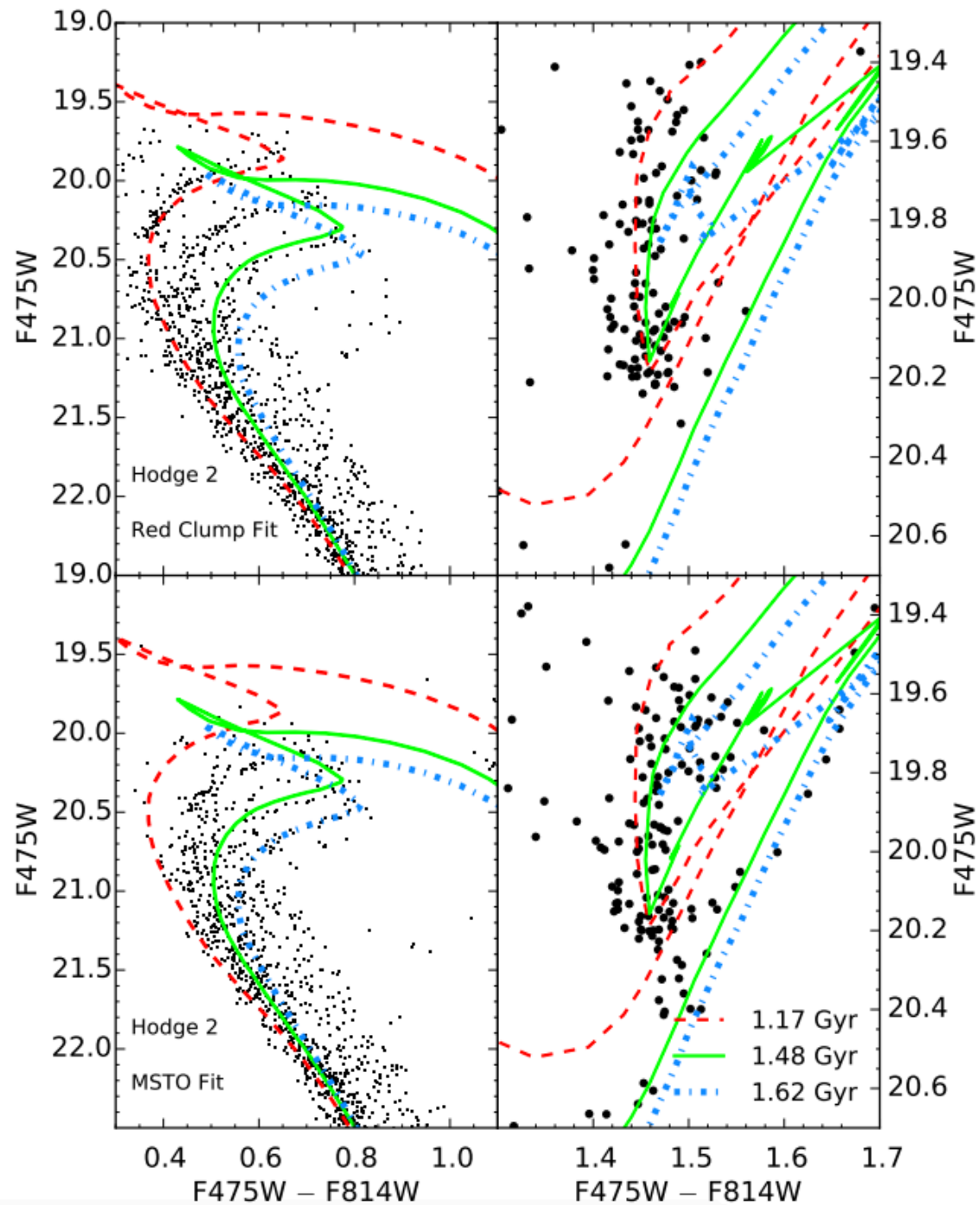






Synthetic
Population

Observed
Population



Synthetic
Population

Observed
Population

