SEDmc

Star Summary Report

TIC100990000

11/03/2024

Astrometry Data: ID = TIC100990000; RA,DEC = (54.819538, -42.7630276); Best Parallax (Simbad) = 15.9 (+/-0.017)

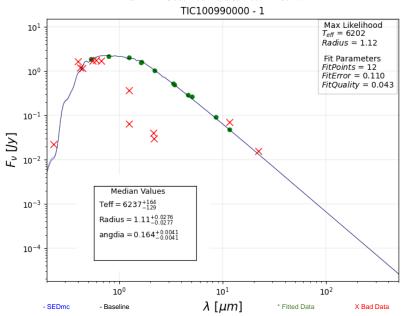
Stellar Parameters: Baseline Data Source = NASA

Data Type	Teff [K]	Rstar [Rsun]	Angular Diameter [arcsec]
Baseline Values {SEDmc residuals}	6169 (+/-64.0) {1.1%}	1.12 (+/-0.01) {-0.9%}	0.1656 (+/-0.0015) {-1.0%}
SEDmc Results {fractional error}	6237 (+163, -129) {2.6%}	$1.11 (+0.0276, -0.0277) \{2.5\%\}$	$0.164 (+0.0041, -0.0041) \{2.5\%\}$

Sampling Parameters: Observed Data = New; Model = nextgen; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000

Min Wavelength = 0.532; Max Wavelength = 11.6; # of Fit Points = 12; # of Bad Points = 14; Fit Error = 0.11

SEDmc Observed Data & Best Fit Curve



Observed Data

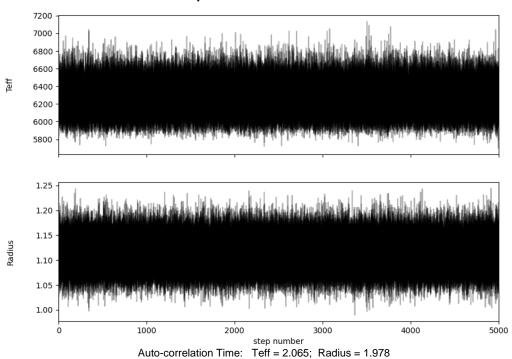
Good Data Points (Used in Sampler)

Bad Data Points (All not shown)

Ι.								
Ш	wl	fi	efl	ac	band			
0	0.53	1.85	0.02	I/346/jsdc_v2	HIP:VT			
1	0.79	2.18	0.22	J/AJ/147/86/table4	Cousins:I			
2	1.25	2.03	0.04	/PASP/120/1128/catalog	Johnson:J			
3	1.63	1.59	0.06	I/246/out	Johnson:H			
4	1.65	1.60	0.06	V322A/out	2MASS:H			
5	2.19	1.05	0.03	I/246/out	Johnson:K			
6	3.35	0.53	0.03	N/38/tic	WSE:W1			
7	3.40	0.50	0.03	I/346/jsdc_v2	Johnson:L			
8	4.60	0.29	0.00	N/38/tic	WISE:W2			
9	5.03	0.27	0.00	I/346/jsdc_v2	Johnson:M			
10	8.62	0.09	0.01	/MNRAS/471/770/table2	AKARI:S9W			
11	11.57	0.05	0.00	N/38/tic	WSE:W3			

wl	fl	efl	ac	band			
0.15	0.00	0.00	V353/gsc242	GALEX:FUV			
0.23	0.02	0.00	V353/gsc242	GALEX:NUV			
0.40	1.66	0.00	J/A+A/657/A7/tablea1	HIP:Hp			
0.42	1.19	0.02	I/346/jsdc_v2	HIP:BT			
0.44	1.17	0.02	/305/out	Johnson:B			
0.55	1.71	0.02	V/136/tycdwarf	Johnson:V	98		
0.60	1.77	nan	/MNRAS/471/770/tab 5e 0	aru/Suprime:IA5	98		
0.67	1.73	0.00	V339/hsoy	Gaia:G			
1.24	0.06	0.00	V353/gsc242	2MASS:J			
1.25	0.37	0.00	I/359/vhs_dr4	VISTA:J			
2.14	0.04	0.00	I/359/vhs_dr4	VISTA:Ks			
2.17	0.03	0.00	V353/gsc242	2MASS:Ks			
11.60	0.07	nan	V/98/msx	RAS:12			
22.11	0.02	0.00	N/38/tic	WISE:W4			
	0.15 0.23 0.40 0.42 0.44 0.55 0.60 0.67 1.24 1.25 2.14 2.17	0.15 0.00 0.23 0.02 0.40 1.66 0.42 1.19 0.44 1.17 0.55 1.71 0.60 1.77 0.67 1.73 1.24 0.06 1.25 0.37 2.14 0.04 2.17 0.03 11.60 0.07	0.15 0.00 0.00 0.23 0.02 0.00 0.40 1.66 0.00 0.42 1.19 0.02 0.44 1.17 0.02 0.55 1.71 0.02 0.60 1.77 nan 0.67 1.73 0.00 1.24 0.06 0.00 1.25 0.37 0.00 2.14 0.04 0.00 2.17 0.03 0.00 11.60 0.07 nan	0.15 0.00 0.00 V353/gsc242 0.23 0.02 0.00 V353/gsc242 0.40 1.66 0.00 VA-A/657/A7/tablea1 0.42 1.19 0.02 V/36/fsdc_v2 0.44 1.17 0.02 V305/out 0.55 1.71 0.02 V/136/tycdwarf 0.60 1.77 nan /MNRAS/471/770/tabSed 0.67 1.73 0.00 V339/hsoy 1.24 0.06 0.00 V353/gsc242 1.25 0.37 0.00 V359/vhs_dr4 2.14 0.04 0.00 V353/gsc242 1.160 0.07 nan V/98/msx	0.15 0.00 0.00 V353/gsc242 GALEX:FUV 0.23 0.02 0.00 V353/gsc242 GALEX:NUV 0.40 1.66 0.00 J/A+A/657/A7/tablea1 HP:Hp 0.42 1.19 0.02 I/346/jsdc_v2 HP:BT 0.44 1.17 0.02 V/305/out Johnson:B 0.55 1.71 0.02 V/136/tycdwarf Johnson:V 0.60 1.77 nan /MNRAS/471/770/tabSod aru/Suprime:IAS 0.67 1.73 0.00 V339/hsoy Gaia:G 1.24 0.06 0.00 V353/gsc242 2MASS:J 1.25 0.37 0.00 I/359/vhs_dr4 VISTA:J 2.14 0.04 0.00 I/359/vhs_dr4 VISTA:Ks 2.17 0.03 0.00 V353/gsc242 2MASS:Ks 11.60 0.07 nan V/98/msx RAS:12		

SEDmc Sampler Behavior - Markov Chain Plot



SEDmc Posterior Spread - Corner Plot

