

# SEDmc

## Star Summary Report

**TIC106402532**

11/02/2024

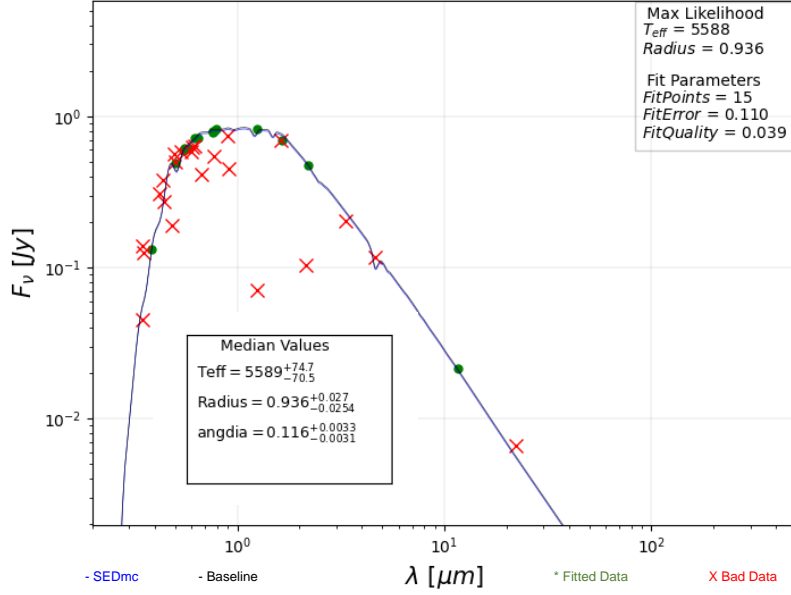
**Astrometry Data:** ID = TIC106402532; RA,DEC = (159.4093183, -40.888259); Best Parallax (Simbad) = 13.28 (+/-0.0127)

**Stellar Parameters:** Baseline Data Source = NASA

Data Type	Teff [K]	Rstar [Rsun]	Angular Diameter [arcsec]
Baseline Values {SEDmc residuals}	5585 (+/-60.0) {0.1%}	0.95 (+/-0.01) {-1.5%}	0.1172 (+/-0.0013) {-1.0%}
SEDmc Results {fractional error}	5589 (+74, -70) {1.3%}	0.936 (+0.027, -0.0254) {2.9%}	0.116 (+0.0033, -0.0031) {2.8%}

**Sampling Parameters:** Observed Data = New; Model = nextgen; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000  
Min Wavelength = 0.387; Max Wavelength = 11.6; # of Fit Points = 15; # of Bad Points = 25; Fit Error = 0.11

SEDmc Observed Data & Best Fit Curve  
TIC106402532 - 1



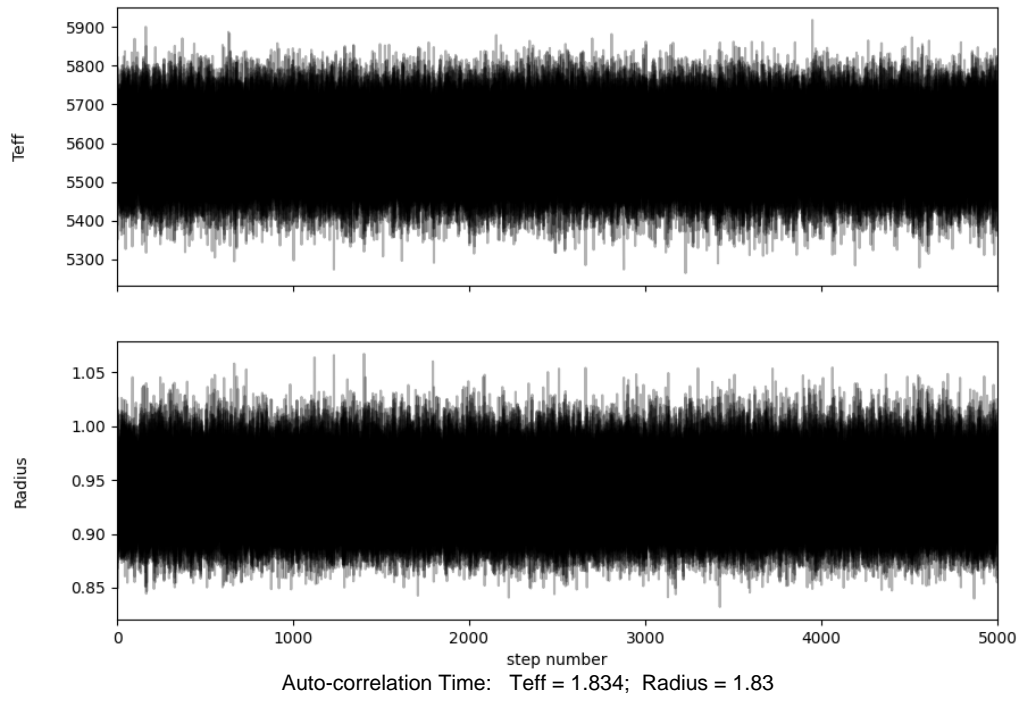
## Observed Data

Good Data Points (Used in Sampler)

Bad Data Points (All not shown)

	wl	fl	efl	src	band		wl	fl	efl	src	band
0	0.39	0.13	0.01	I/358/smss	SkyMapper/SkyMapper.v	0	0.35	0.05	0.00	I/358/smss	SkyMapper/SkyMapper.u
1	0.50	0.49	0.05	V345/gaia2	GAIA/GAIA2:Gbp	1	0.35	0.14	nan	V360/syntphot	Cousins:U
2	0.55	0.60	0.06	V360/syntphot	Cousins:V	2	0.35	0.13	0.00	V353/gsc242	SDSS:u
3	0.55	0.61	0.00	I/38/tic	Johnson:V	3	0.42	0.31	0.01	V239/tyc_main	HP:BT
4	0.58	0.62	0.00	V350/gaiaedr3	GAIA/GAIA3:G	4	0.44	0.38	nan	V360/syntphot	Cousins:B
5	0.63	0.71	0.01	V353/gsc242	SDSS:r	5	0.44	0.27	0.00	I/336/apass9	Johnson:B
6	0.65	0.72	0.07	V360/syntphot	Cousins:R	6	0.48	0.19	nan	V353/gsc242	SDSS:g
7	0.76	0.78	0.00	V350/gaiaedr3	GAIA/GAIA3:Grp	7	0.50	0.56	0.01	I/358/smss	SkyMapper/SkyMapper.g
8	0.76	0.80	0.02	V353/gsc242	SDSS:i	8	0.50	0.50	0.00	V350/gaiaedr3	GAIA/GAIA3:Gbp
9	0.77	0.80	0.08	V345/gaia2	GAIA/GAIA2:Grp	9	0.53	0.58	0.01	V337/tgasptyc	HP:VT
10	0.79	0.83	0.08	V360/syntphot	Cousins:I	10	0.60	0.58	nan	MNRAS/471/770/table1	Haru/Suprime:IA3
11	1.25	0.83	0.01	PASP/120/1128/catalog	Johnson:J	11	0.60	0.62	0.01	I/358/smss	SkyMapper/SkyMapper.z
12	1.65	0.70	0.02	JApJ/867/105/refcat2	2MASS:H	12	0.62	0.63	0.00	V345/gaia2	GAIA/GAIA2:G
13	2.19	0.48	0.01	PASP/120/1128/catalog	Johnson:K	13	0.67	0.42	0.00	V353/gsc242	Gaia:G
14	11.57	0.02	0.00	V353/gsc242	WISE:W3	14	0.77	0.55	0.01	I/358/smss	SkyMapper/SkyMapper.i
15	1.63	0.69	0.03	I/246/out	Johnson:H	15	0.90	0.74	0.04	V353/gsc242	SDSS:z
16	1.65	0.70	0.02	JApJ/867/105/refcat2	2MASS:H	16	0.91	0.45	0.02	I/358/smss	SkyMapper/SkyMapper.z
17	2.19	0.48	0.01	PASP/120/1128/catalog	Johnson:K	17	1.24	0.04	0.00	V353/gsc242	2MASS:J
18	4.60	0.12	0.01	I/363/unwise	WISE:W2	18	1.25	0.07	0.00	I/359/vhs_dr4	VISTA:J
19	11.57	0.02	0.00	V353/gsc242	WISE:W3	19	1.63	0.69	0.03	I/246/out	Johnson:H
20	22.11	0.01	0.00	I/311/wise	WISE:W4	20	2.14	0.10	0.00	I/359/vhs_dr4	VISTA:Ks
						21	2.17	0.04	0.00	V353/gsc242	2MASS:Ks
						22	3.35	0.20	0.00	I/363/unwise	WISE:W1
						23	4.60	0.12	0.00	I/363/unwise	WISE:W2
						24	22.11	0.01	0.00	I/311/wise	WISE:W4

### SEDmc Sampler Behavior - Markov Chain Plot



### SEDmc Posterior Spread - Corner Plot

