

# SEDmc

## Star Summary Report

**TIC159304532**

11/03/2024

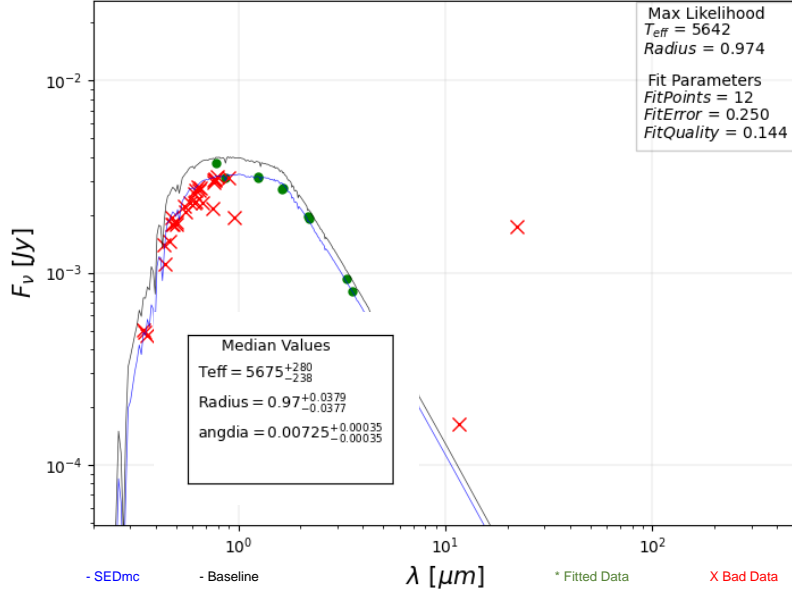
**Astrometry Data:** ID = TIC159304532; RA,DEC = (290.2632874, 44.5564051); Best Parallax (Simbad) = 0.8039 (+/-0.0235)

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

Data Type	Teff [K]	Rstar [Rsun]	Angular Diameter [arcsec]
Baseline Values {SEDmc residuals}	5863 (+/-103.52) {-3.2%}	1.05 (+/-0.28) {-7.6%}	0.0076 (+/-0.002) {-4.6%}
SEDmc Results {fractional error}	5675 (+279, -238) {4.9%}	0.97 (+0.0379, -0.0377) {3.9%}	0.00725 (+0.00035, -0.00035) {4.8%}

**Sampling Parameters:** Observed Data = New; Model = ck04; # of Walkers = 50; # of Iterations = 5000; Burn In = 1000  
Min Wavelength = 0.784; Max Wavelength = 4.6; # of Fit Points = 12; # of Bad Points = 32; Fit Error = 0.25

SEDmc Observed Data & Best Fit Curve  
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## Observed Data

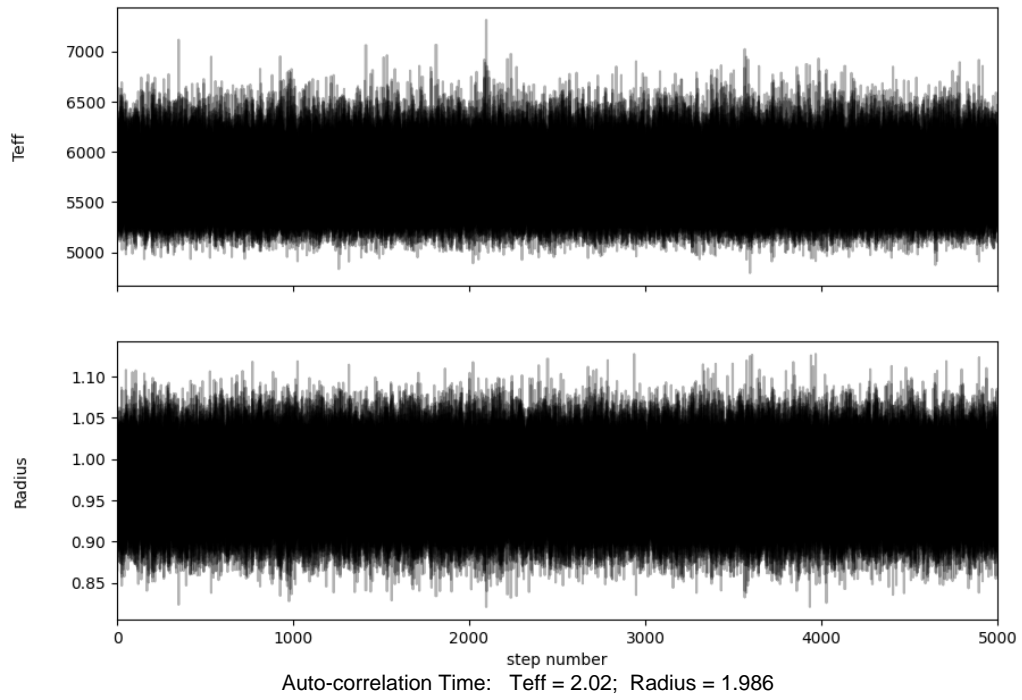
Good Data Points (Used in Sampler)

	wl	fl	efl	src	band
0	0.78	0.00	0.00	V305/out	POSS-II:i
1	0.87	0.00	0.00	I/349/ps1	PAN-STARRS/PS1:z
2	1.24	0.00	0.00	V343/gps1	2MASS:J
3	1.25	0.00	0.00	I/246/out	Johnson:J
4	1.63	0.00	0.00	I/246/out	Johnson:H
5	1.65	0.00	0.00	V317/sample	2MASS:H
6	2.17	0.00	0.00	V322A/out	2MASS:Ks
7	2.19	0.00	0.00	I/246/out	Johnson:K
8	3.35	0.00	0.00	I/363/unwise	WISE:W1
9	3.55	0.00	0.00	JApJ5/254/11/spikes	Spitzer/IRAC:3.6
10	4.50	0.00	0.00	JApJ5/254/11/spikes	Spitzer/IRAC:4.5
11	4.60	0.00	0.00	I/363/unwise	WISE:W2

Bad Data Points (All not shown)

	wl	fl	efl	src	band
0	0.35	0.00	nan	V360/syntphot	Cousins:U
1	0.35	0.00	nan	V360/syntphot	SDSS:u
2	0.36	0.00	0.00	JAJ/144/24/kisdr2	INT/WFC:U
3	0.44	0.00	nan	V360/syntphot	Cousins:B
4	0.44	0.00	0.00	I/336/apass9	Johnson:B
5	0.47	0.00	0.00	V305/out	POSS-II:J
6	0.48	0.00	0.00	V343/gps1	PAN-STARRS/PS1:g
7	0.48	0.00	0.00	JAJ/144/24/kisdr2	INT/WFC:g
8	0.48	0.00	0.00	V353/gsc242	SDSS:g
9	0.50	0.00	0.00	V350/gaiaedr3	GAIA/GAIA3:Gbp
10	0.50	0.00	0.00	V345/gaia2	GAIA/GAIA2:Gbp
11	0.55	0.00	nan	V360/syntphot	Cousins:V
12	0.55	0.00	0.00	I/336/apass9	Johnson:V
13	0.58	0.00	0.00	V350/gaiaedr3	GAIA/GAIA3:G
14	0.61	0.00	0.00	V343/gps1	PAN-STARRS/PS1:r
15	0.62	0.00	0.00	JAJ/144/24/kisdr2	INT/WFC:r
16	0.62	0.00	0.00	V345/gaia2	GAIA/GAIA2:G
17	0.63	0.00	0.00	V353/gsc242	SDSS:r
18	0.64	0.00	0.00	V305/out	POSS-II:F
19	0.65	0.00	nan	V360/syntphot	Cousins:R
20	0.66	0.00	0.00	JAJ/144/24/kisdr2	INT/WFC:Ha
21	0.67	0.00	0.00	V339/hsoy	Gaia:G
22	0.75	0.00	0.00	V343/gps1	PAN-STARRS/PS1:b
23	0.76	0.00	0.00	V350/gaiaedr3	GAIA/GAIA3:Grp
24	0.76	0.00	0.00	V353/gsc242	SDSS:i
25	0.77	0.00	0.00	JAJ/144/24/kisdr2	INT/WFC:i
26	0.77	0.00	0.00	V345/gaia2	GAIA/GAIA2:Grp
27	0.79	0.00	nan	V360/syntphot	Cousins:I
28	0.90	0.00	0.00	V353/gsc242	SDSS:z
29	0.96	0.00	0.00	V343/gps1	PAN-STARRS/PS1:y

### SEDmc Sampler Behavior - Markov Chain Plot



### SEDmc Posterior Spread - Corner Plot

