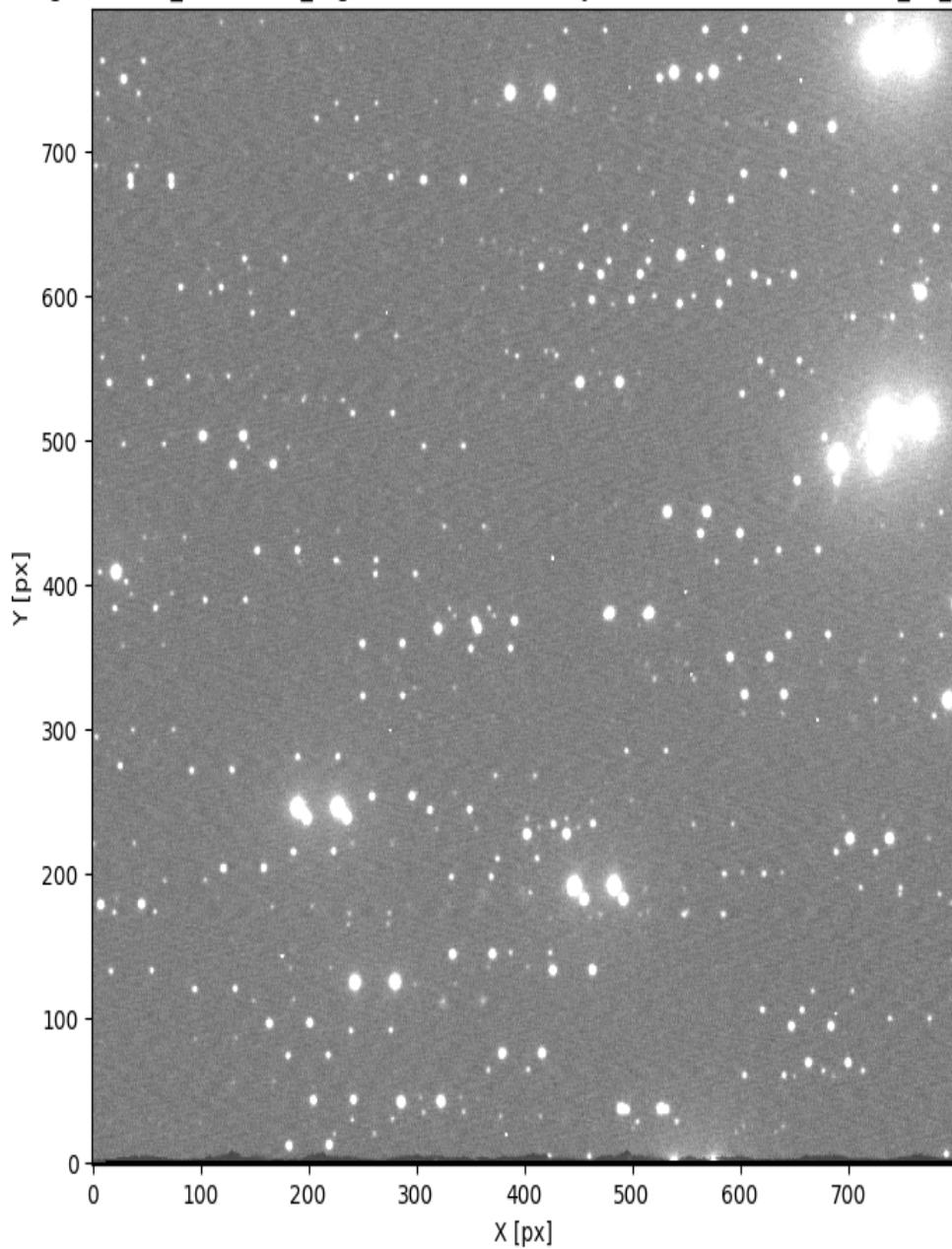
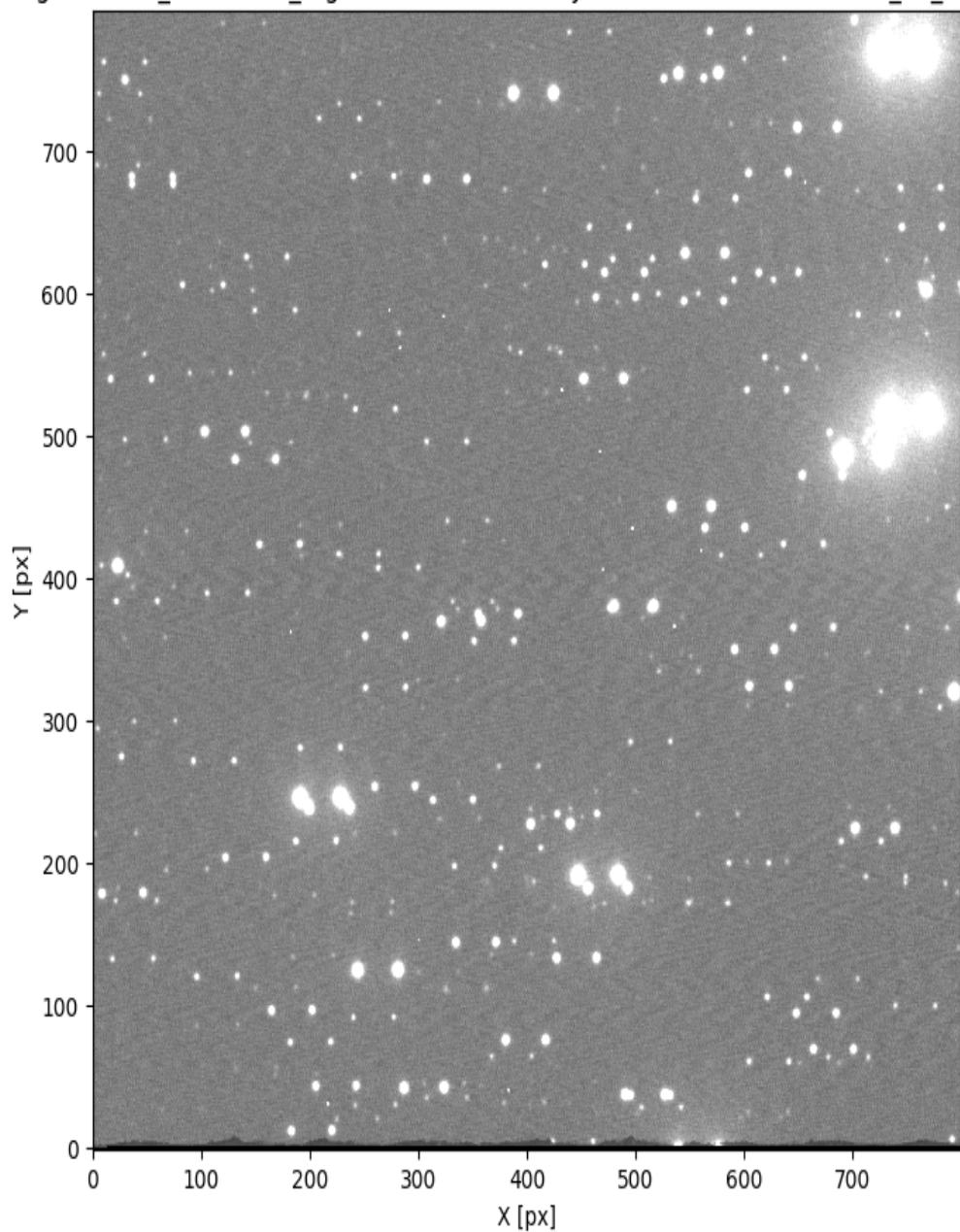


# 1. Imágenes originales

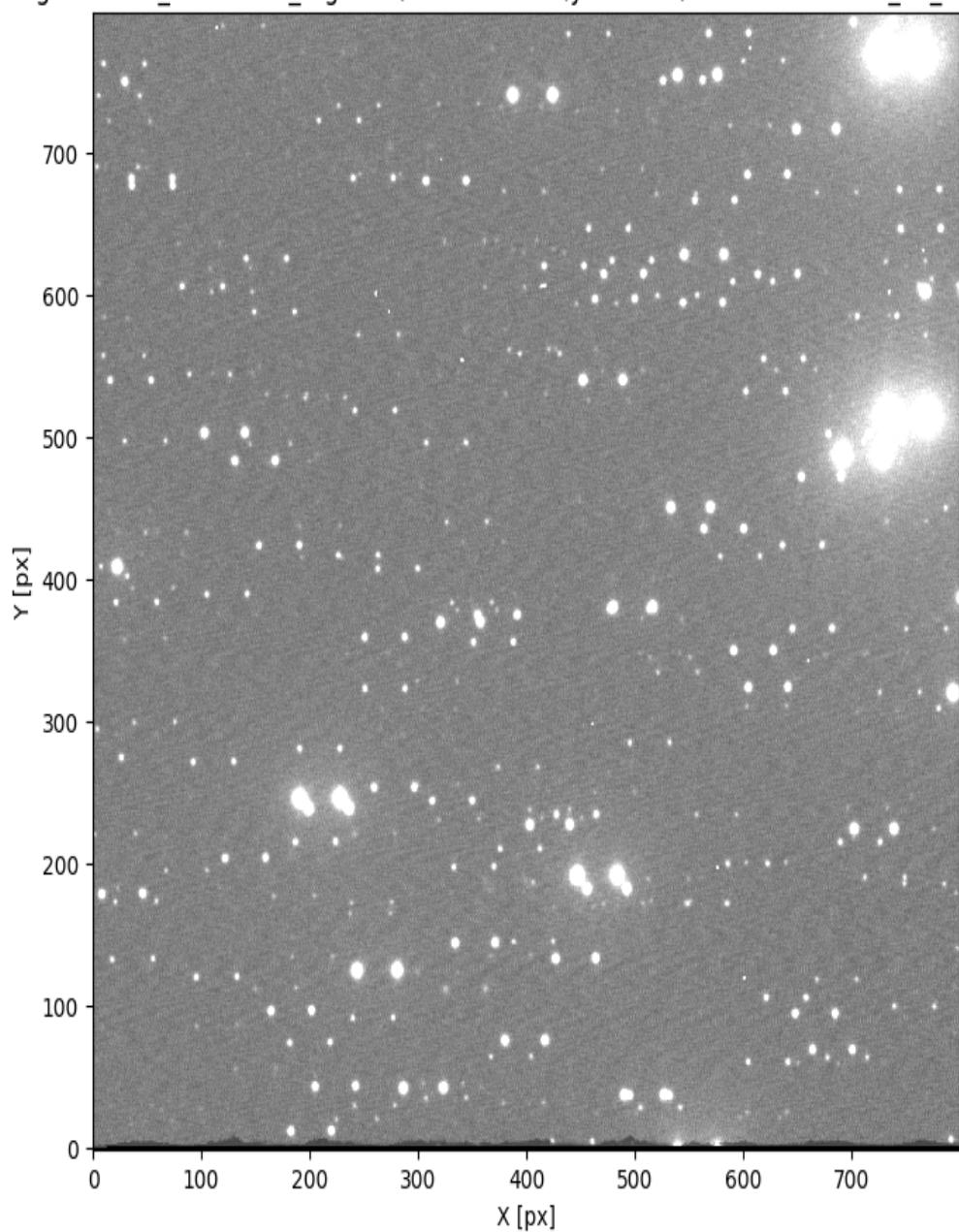
Reference Image noche1\_20230720\_organize/1H1936+541/JohnsonV/caf-20230721-00\_36\_30-sci-blap\_b\_f.fits



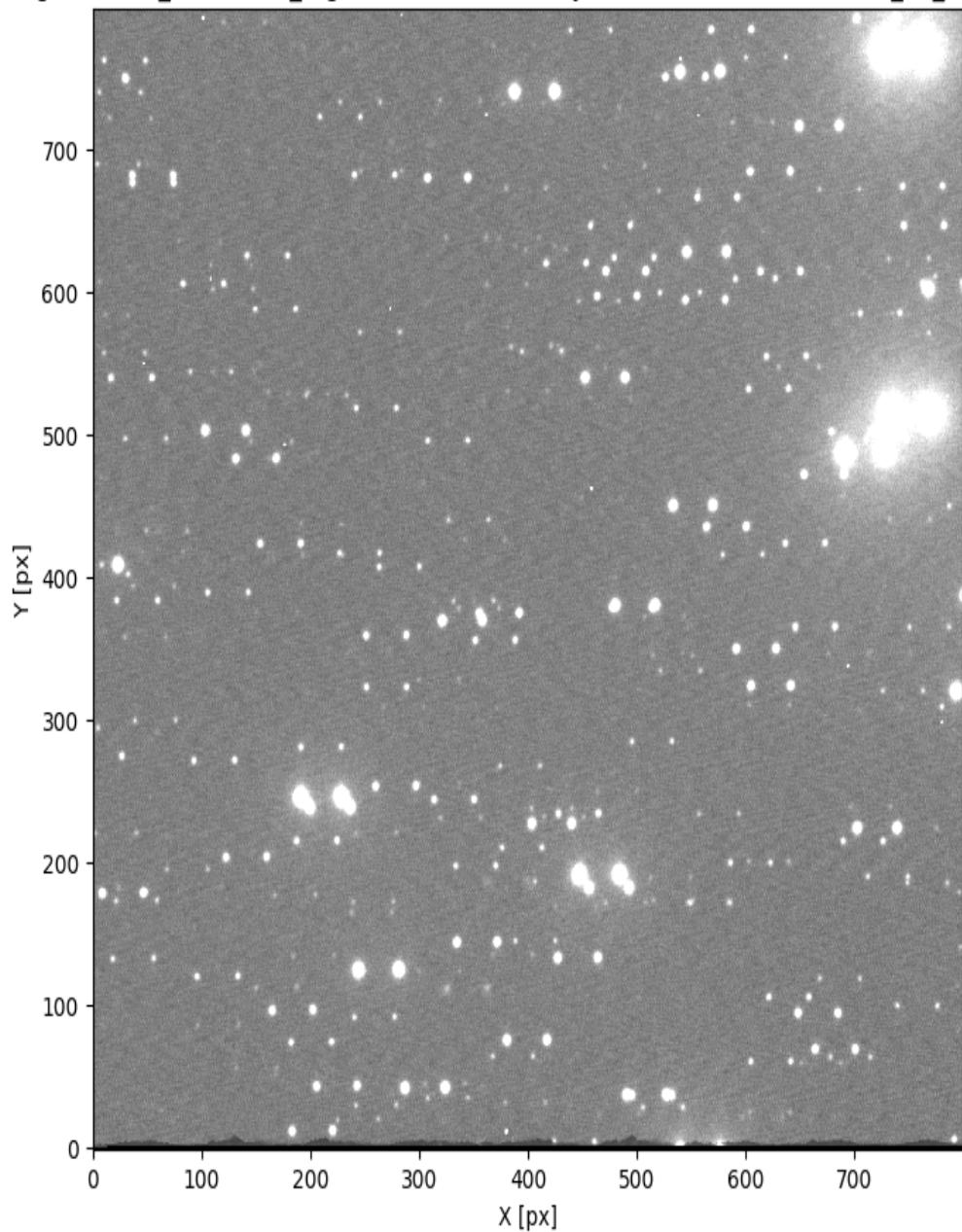
Original Image noche1\_20230720\_organize/1H1936+541/JohnsonV/caf-20230721-00\_37\_54-sci-blap\_b\_f.fits



Original Image noche1\_20230720\_organize/1H1936+541/JohnsonV/caf-20230721-00\_39\_18-sci-blap\_b\_f.fits

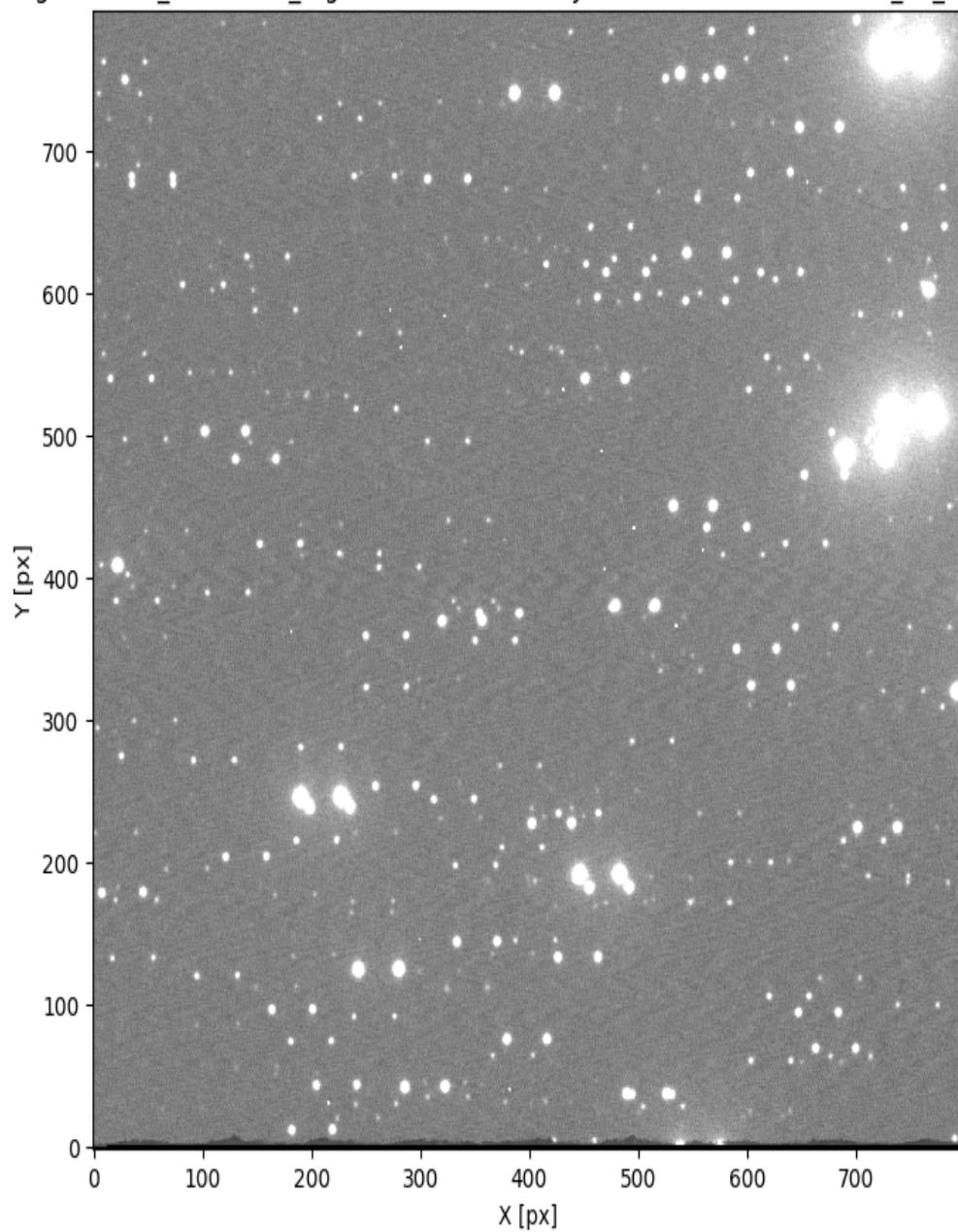


Original Image noche1\_20230720\_organize/1H1936+541/JohnsonV/caf-20230721-00\_40\_41-sci-blap\_b\_f.fits

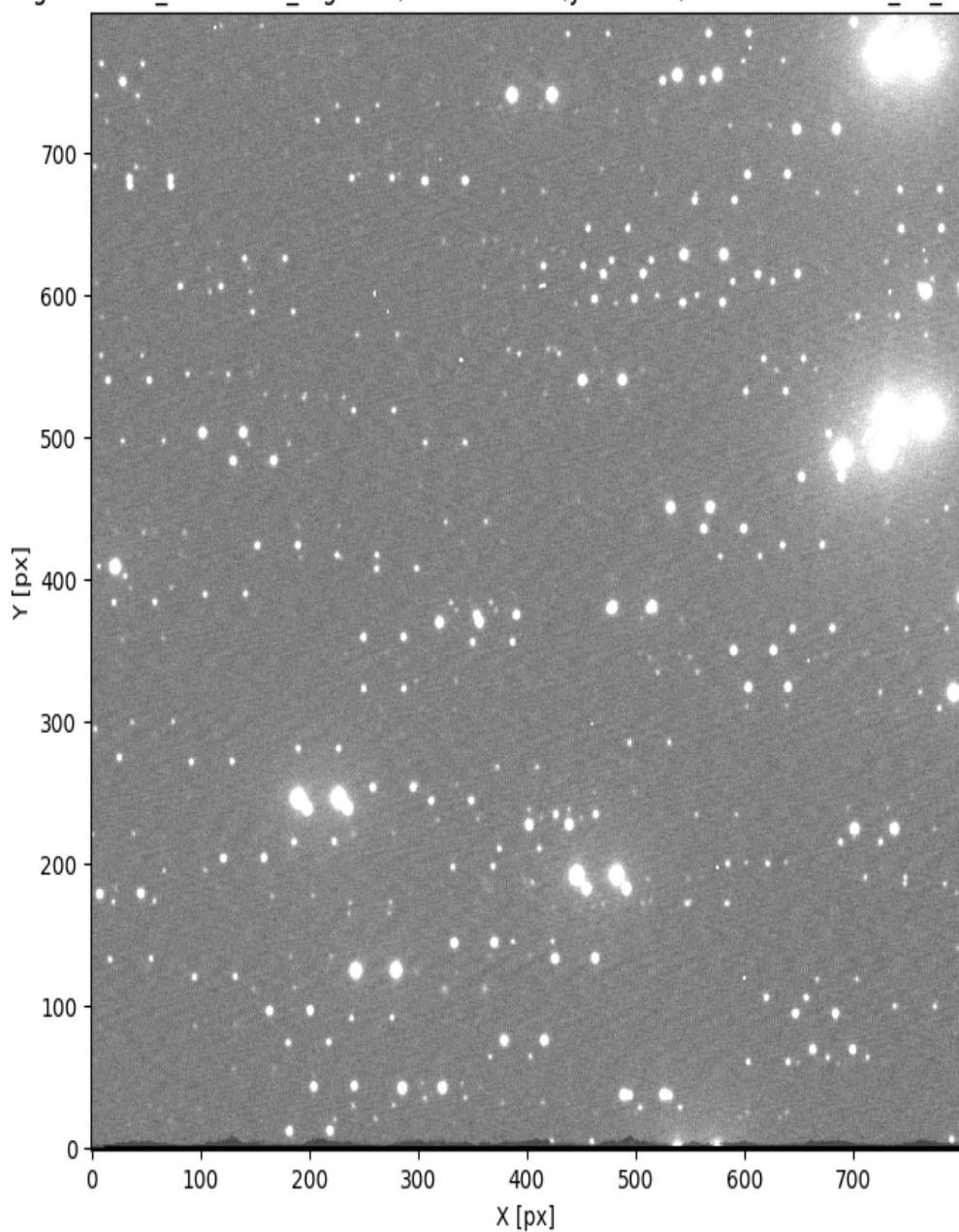


## 2. Imágenes alineadas

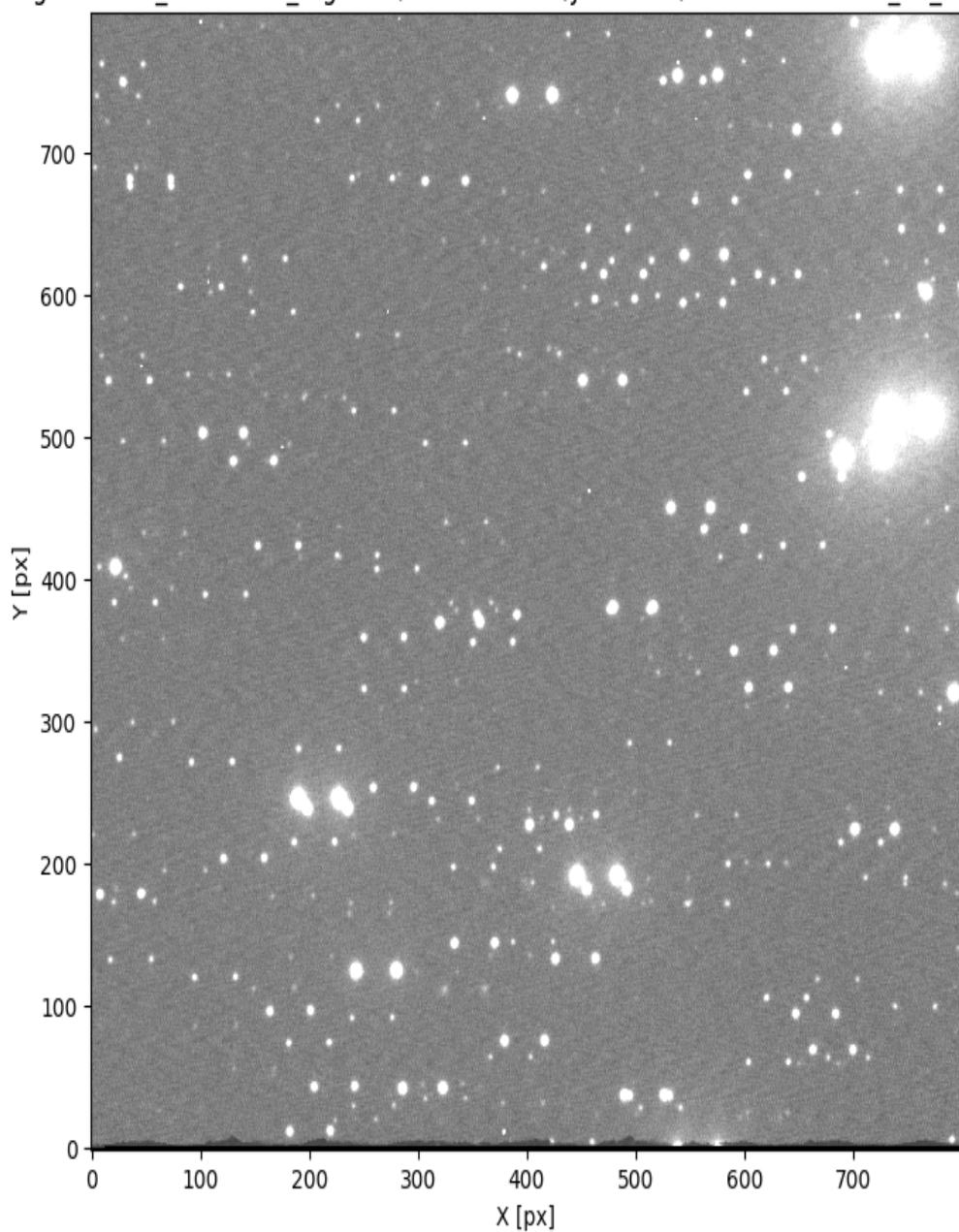
Aligned Image noche1\_20230720\_organize/1H1936+541/JohnsonV/caf-20230721-00\_37\_54-sci-blap\_b\_f.fits



Aligned Image noche1\_20230720\_organize/1H1936+541/JohnsonV/caf-20230721-00\_39\_18-sci-blap\_b\_f.fits

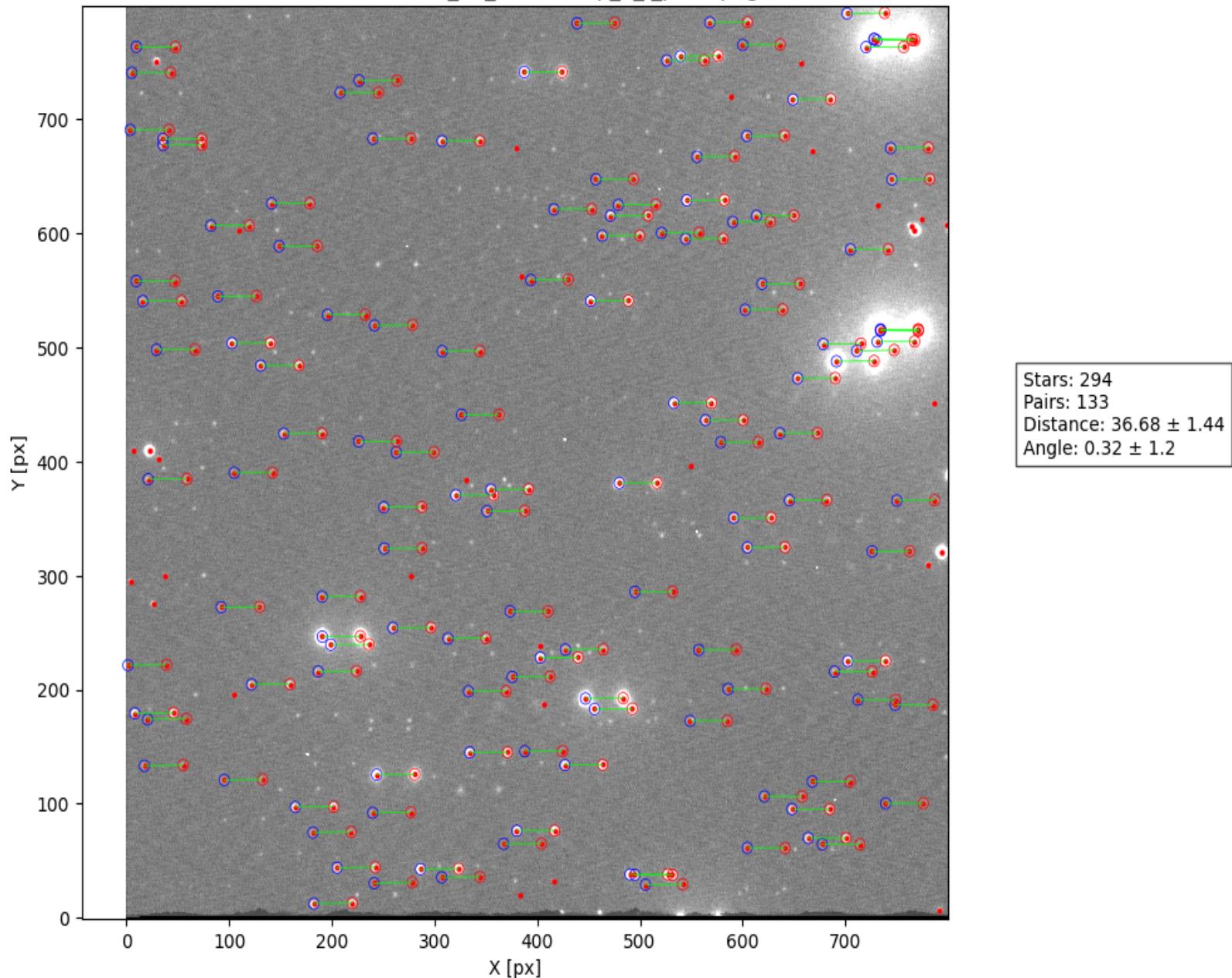


Aligned Image noche1\_20230720\_organize/1H1936+541/JohnsonV/caf-20230721-00\_40\_41-sci-blap\_b\_f.fits

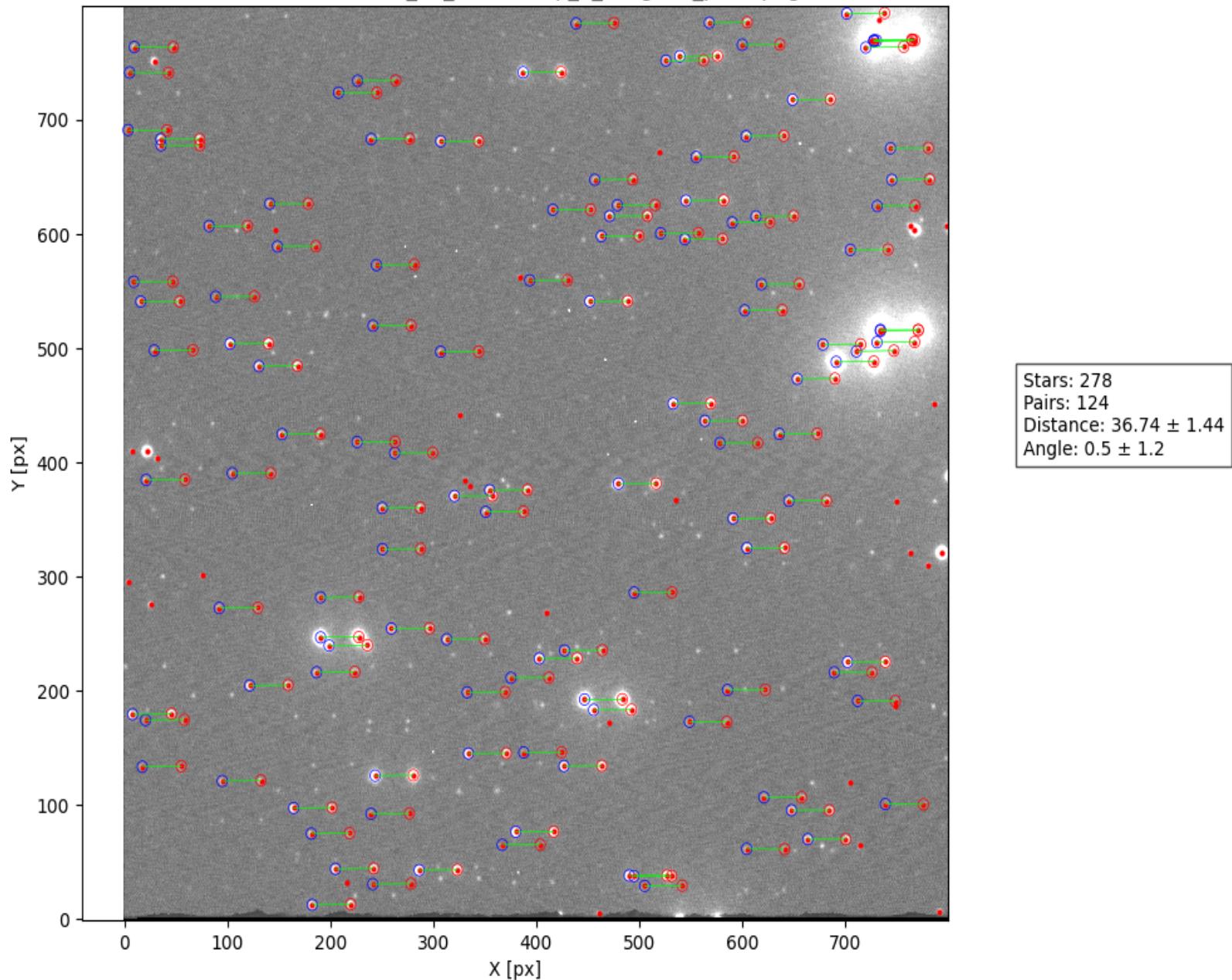


### 3. Imágenes con pares identificados

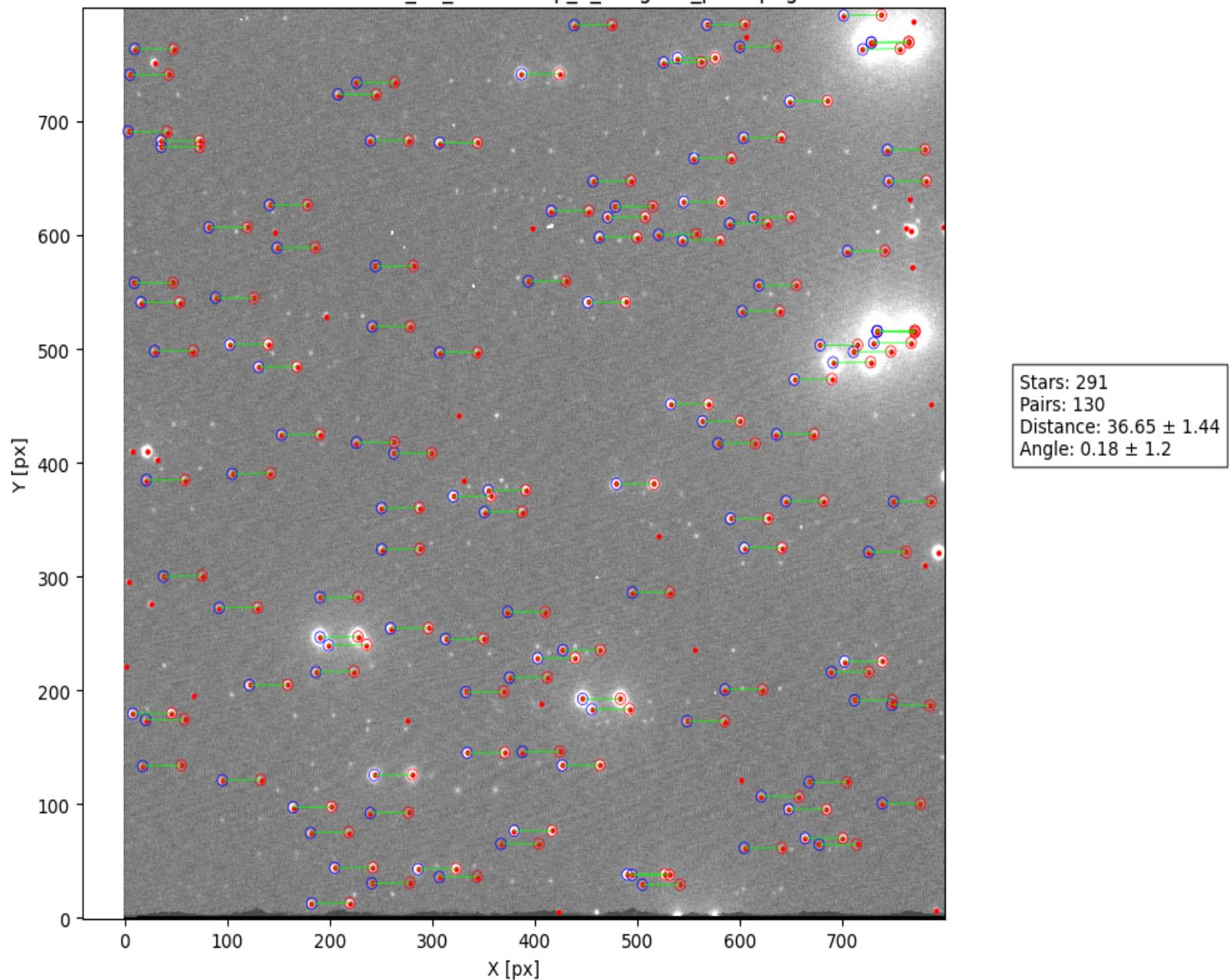
caf-20230721-00\_36\_30-sci-blap\_b\_f\_pairs.png



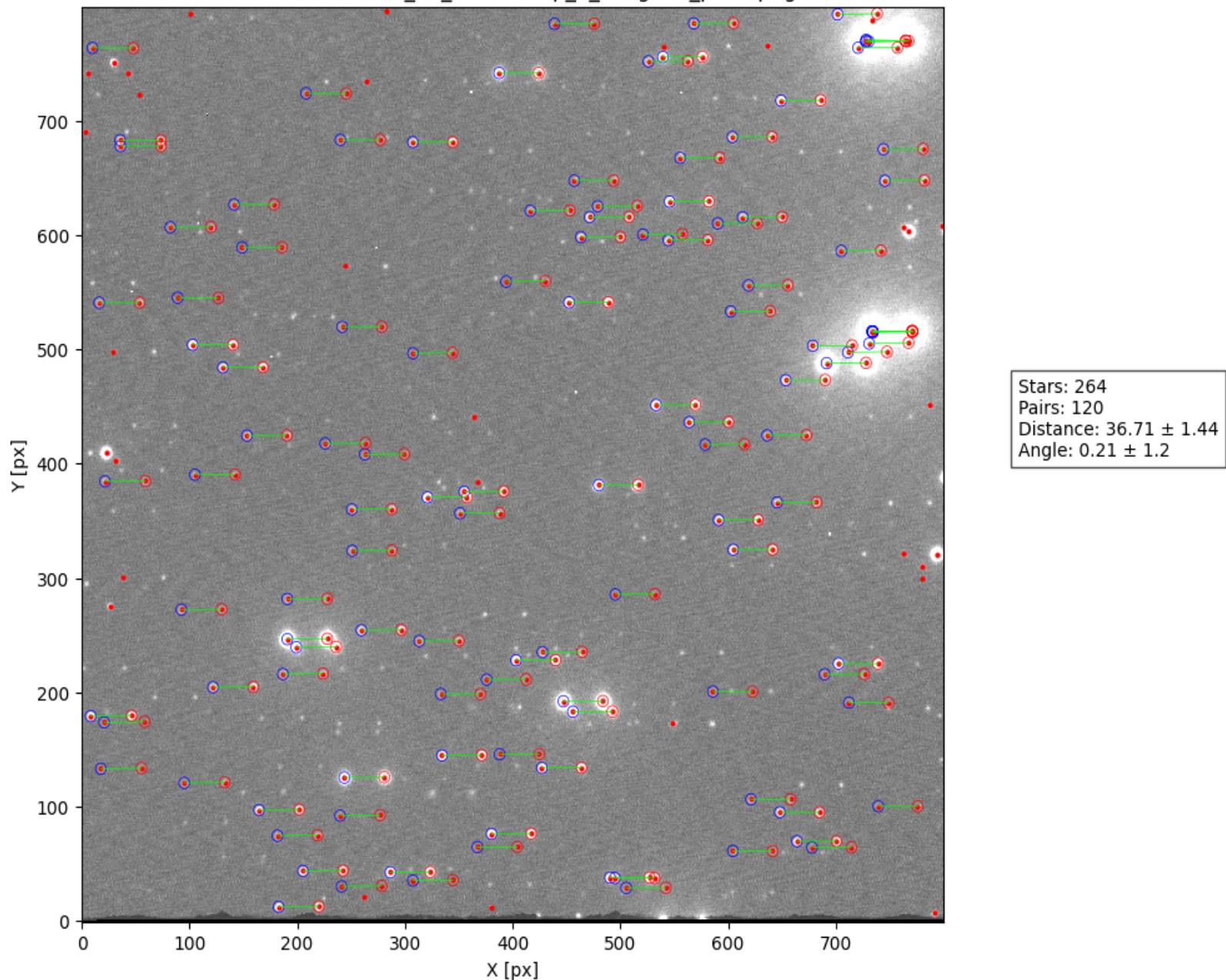
caf-20230721-00\_37\_54-sci-blap\_b\_f-aligned\_pairs.png



caf-20230721-00\_39\_18-sci-blap\_b\_f-aligned\_pairs.png

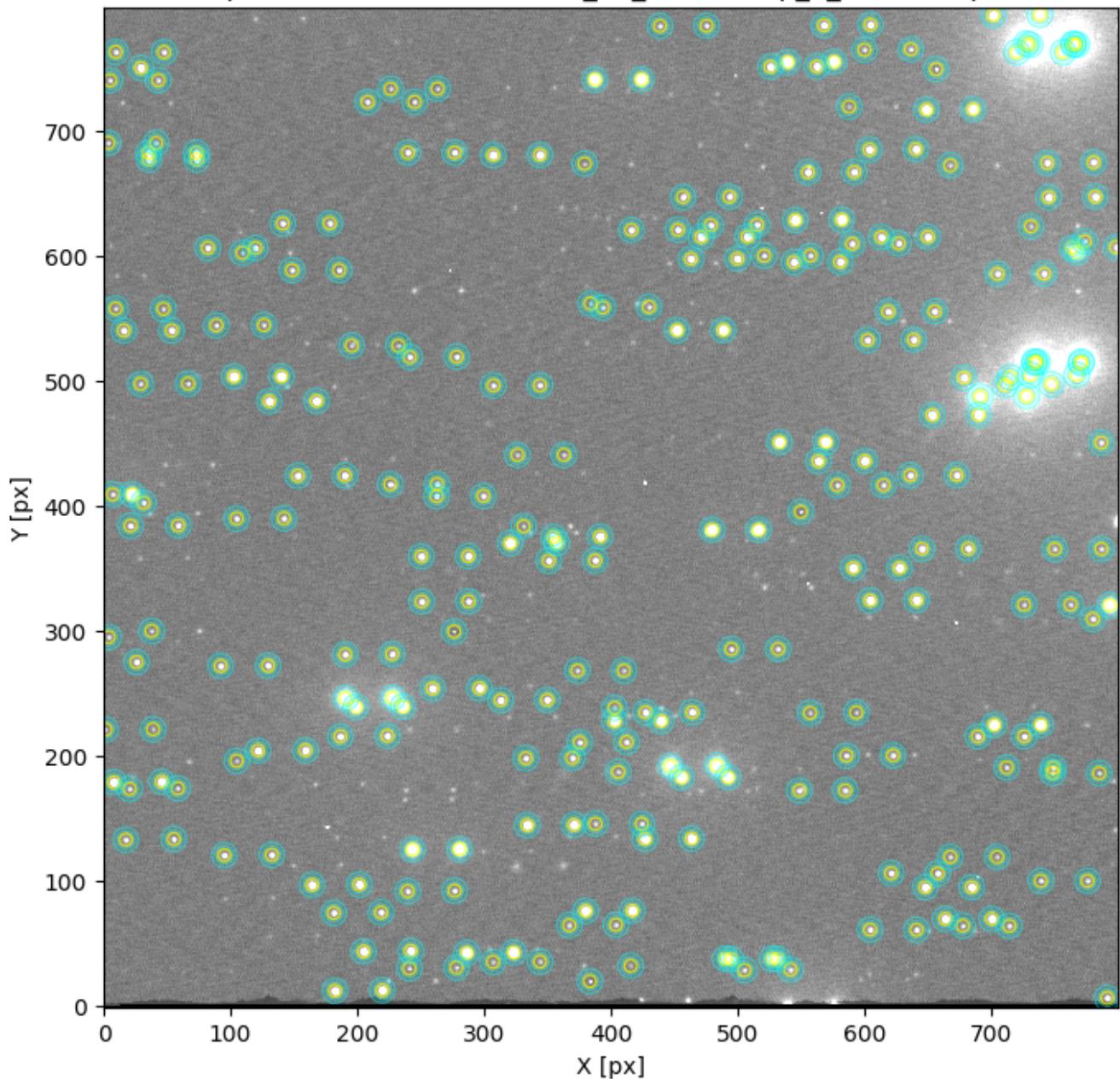


caf-20230721-00\_40\_41-sci-blap\_b\_f-aligned\_pairs.png

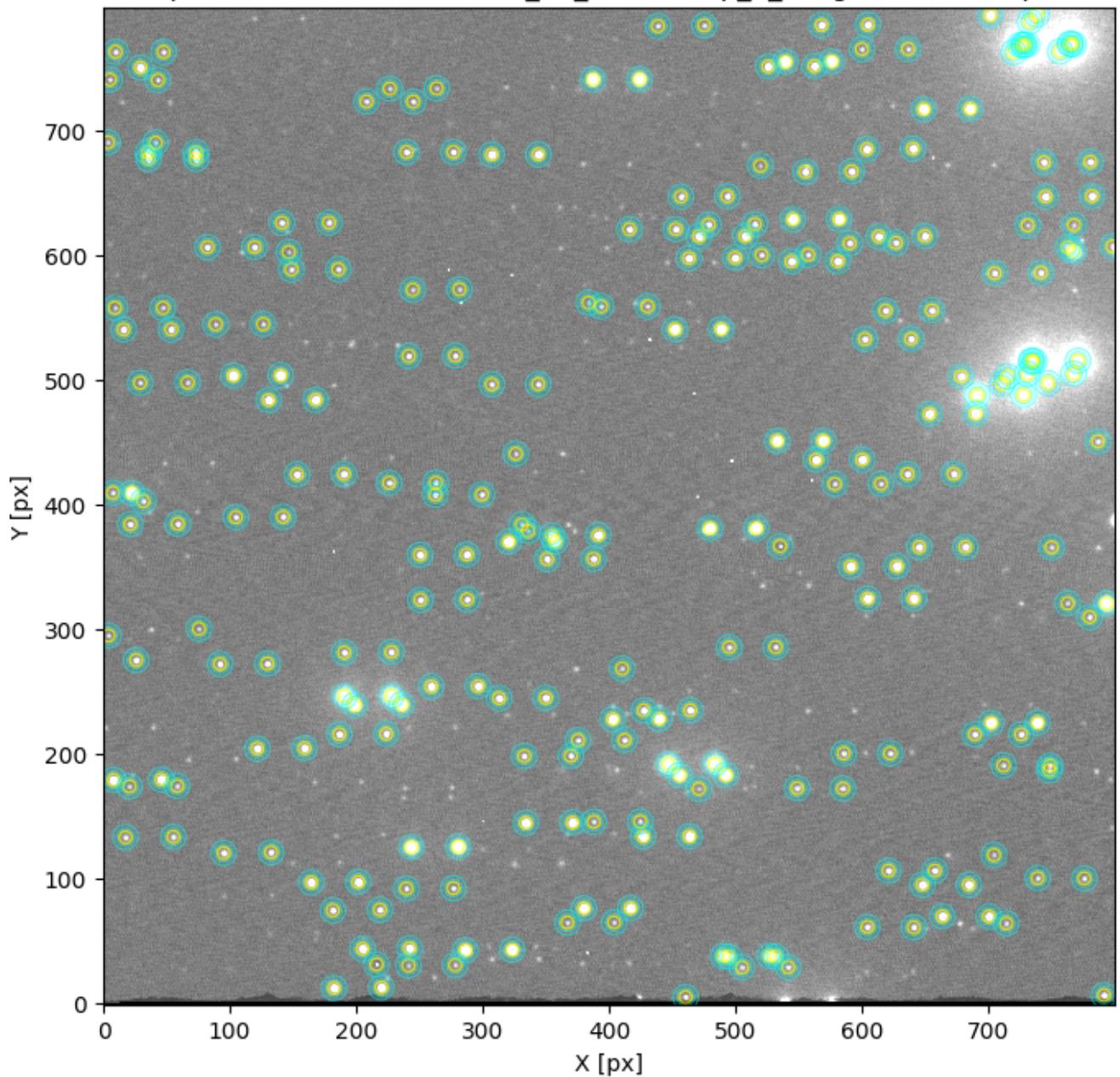


## 4. Fotometría — Aperturas

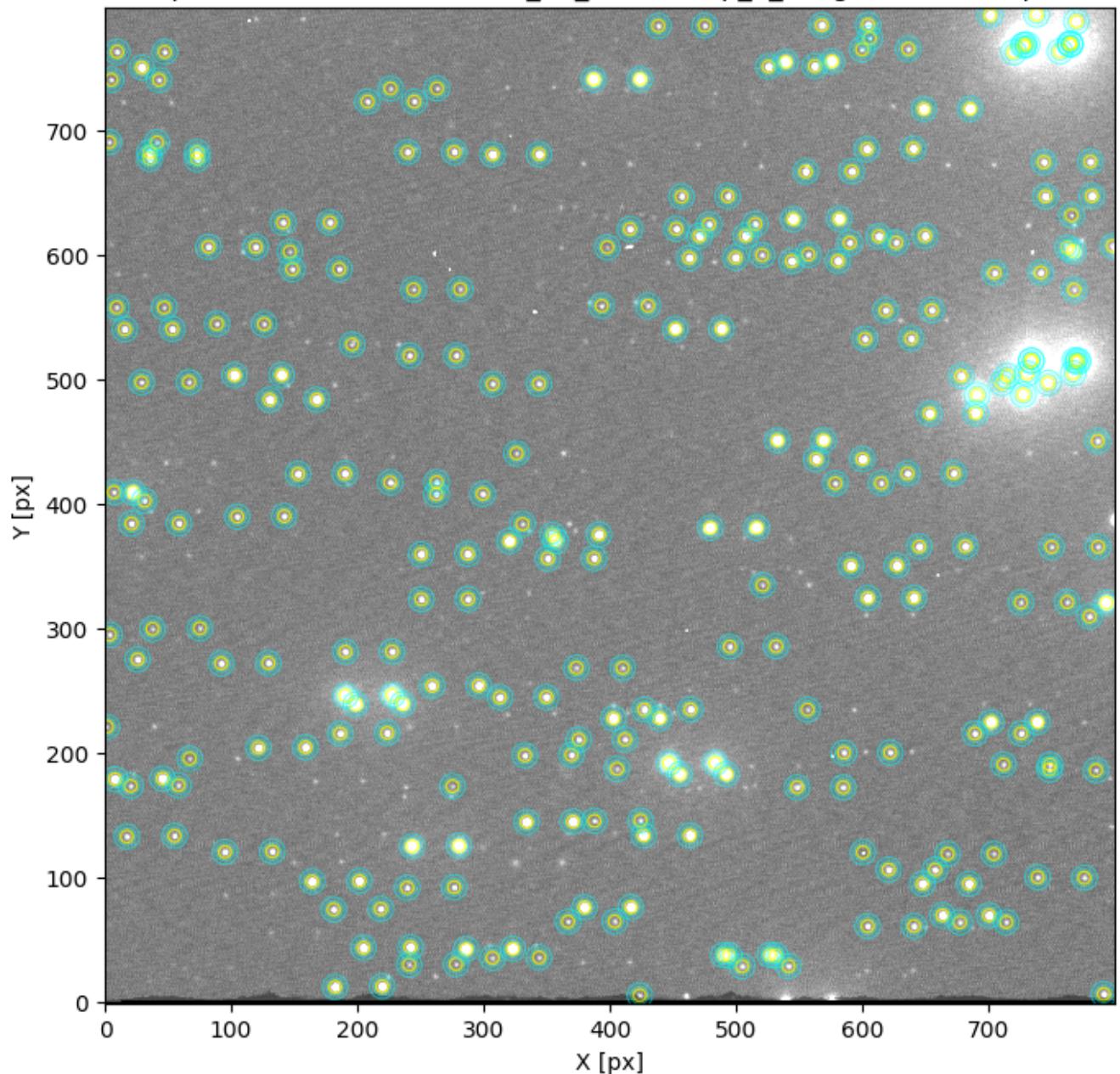
Apertures caf-20230721-00\_36\_30-sci-blap\_b\_f.fits ( $r=5\text{px}$ )



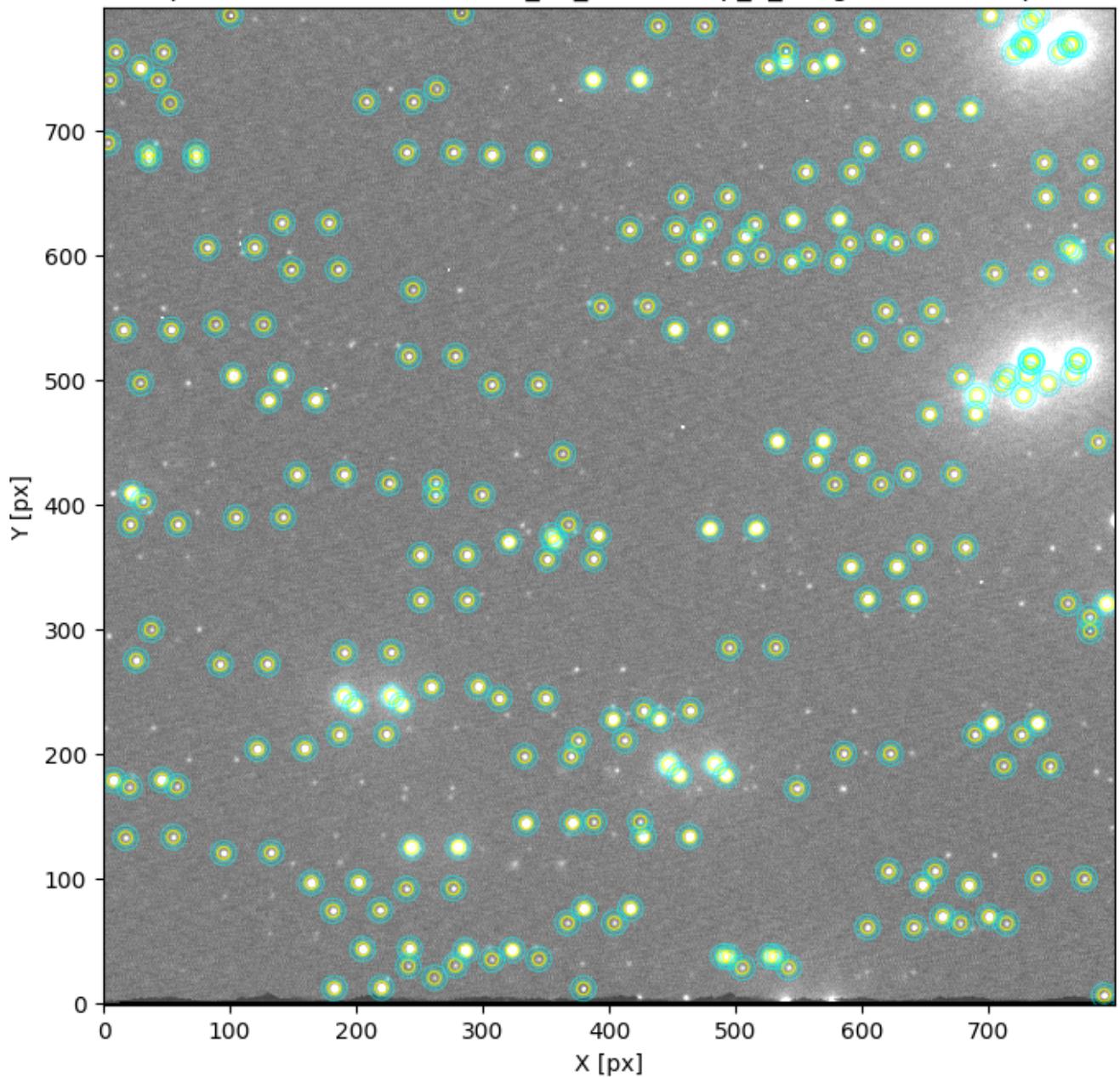
Apertures caf-20230721-00\_37\_54-sci-blap\_b\_f-aligned.fits (r=5px)



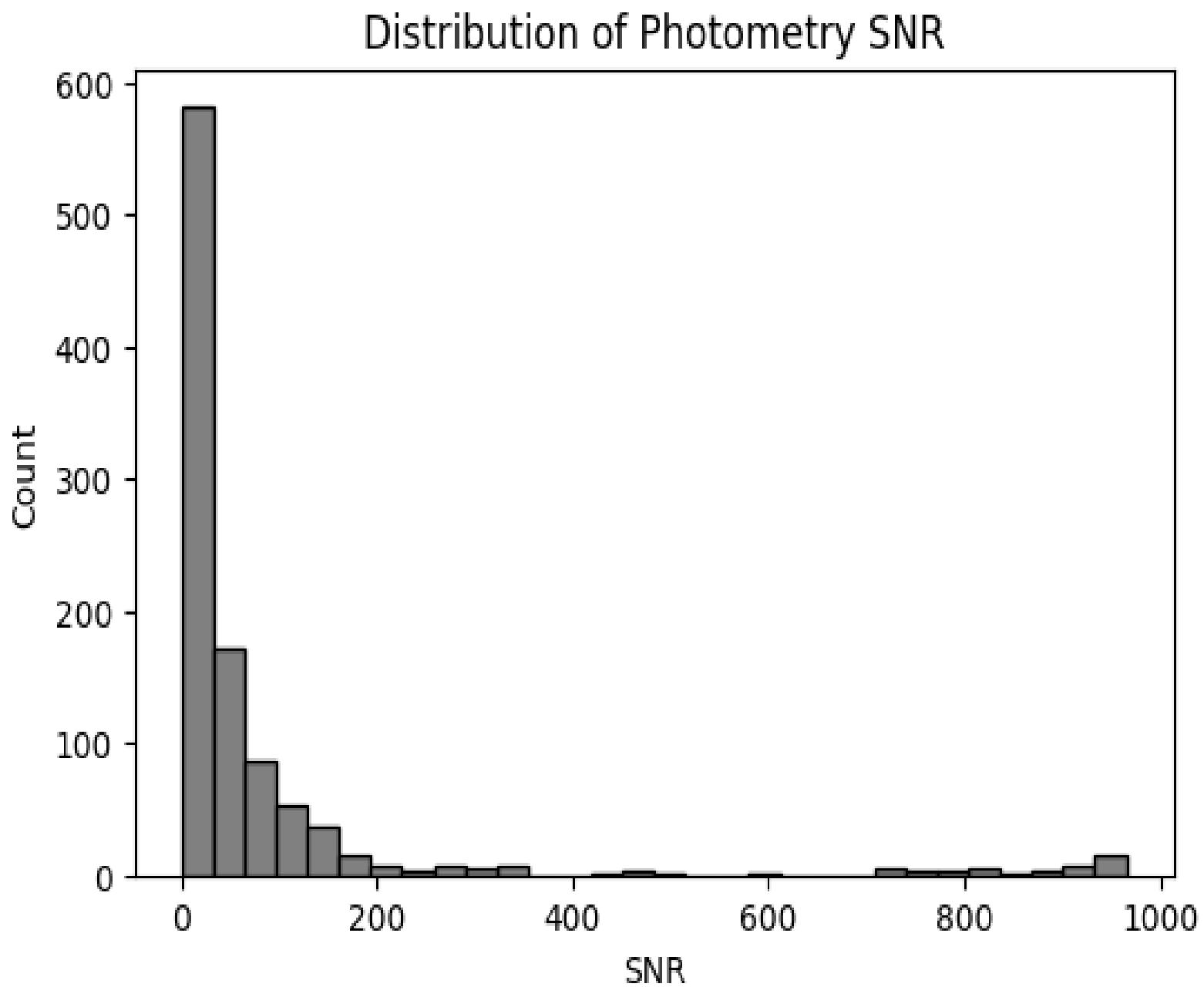
Apertures caf-20230721-00\_39\_18-sci-blap\_b\_f-aligned.fits (r=5px)



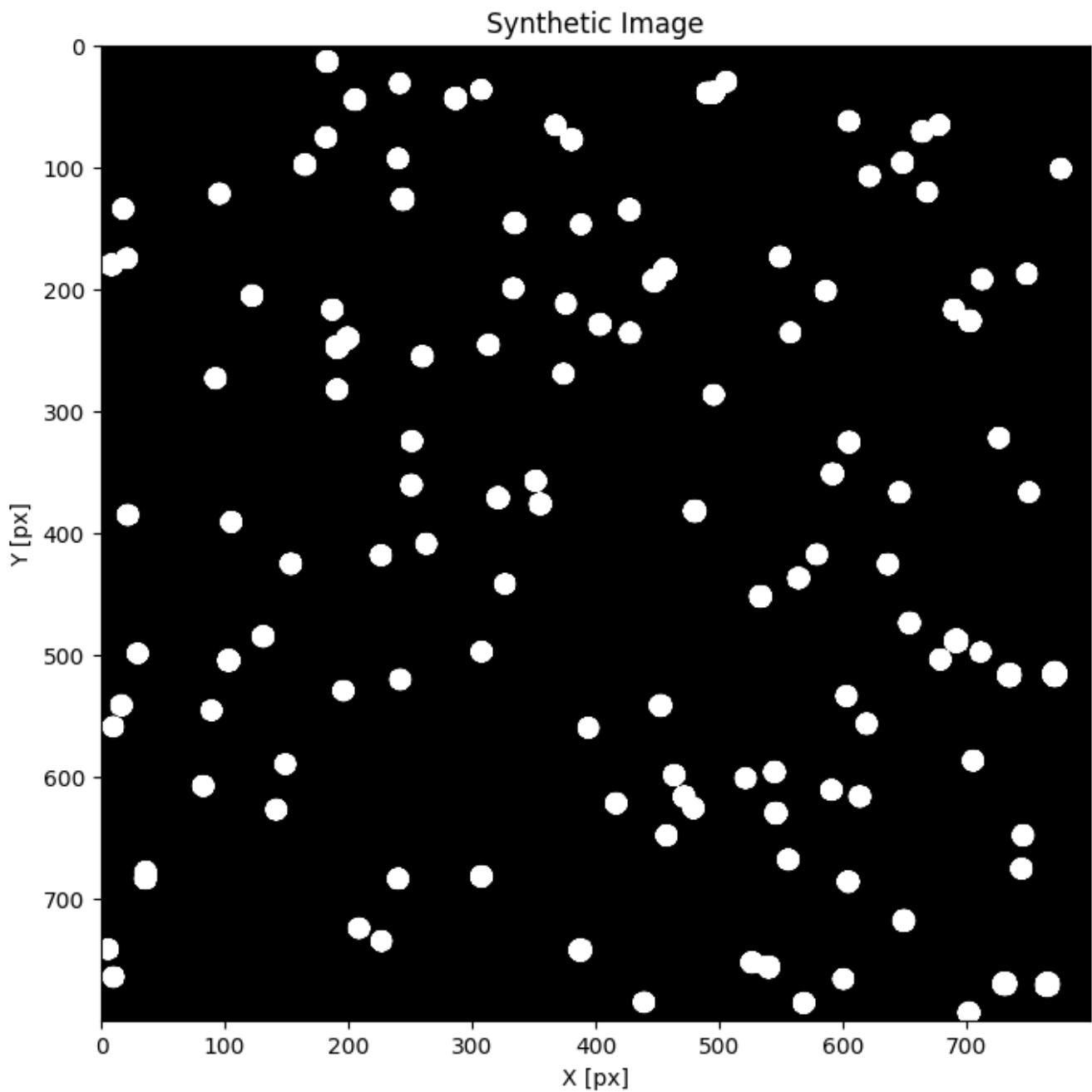
Apertures caf-20230721-00\_40\_41-sci-blap\_b\_f-aligned.fits (r=5px)



## 4. Fotometría — Histograma de SNR



## 5. Astrometría — Imagen sintética



## 5. Astrometría — Resultados SIMBAD

Par	RA (°)	DEC (°)	Simbad ID	Object Type
0	294.354331	54.210757	No_ID	
1	294.361299	54.257791	TYC 3934-44-1	Star
2	294.359299	54.219228	No_ID	
3	294.361172	54.228823	No_ID	
4	294.363367	54.256232	TYC 3934-44-1	Star
5	294.363410	54.255538	TYC 3934-44-1	Star
6	294.362784	54.225759	No_ID	
7	294.362355	54.213891	No_ID	
8	294.370241	54.272094	No_ID	
9	294.371656	54.282743	No_ID	
10	294.369015	54.237452	No_ID	
11	294.372908	54.280702	No_ID	
12	294.369826	54.210304	No_ID	
13	294.371993	54.239269	No_ID	
14	294.374676	54.218710	No_ID	
15	294.379093	54.278261	No_ID	
16	294.375261	54.207692	No_ID	
17	294.381495	54.296914	No_ID	
18	294.381644	54.274281	No_ID	
19	294.385303	54.281026	No_ID	
20	294.380561	54.197473	No_ID	
21	294.383021	54.219100	No_ID	
22	294.382953	54.186069	No_ID	
23	294.386780	54.245801	No_ID	
24	294.388693	54.232204	No_ID	
25	294.389443	54.240029	No_ID	
26	294.397520	54.263375	No_ID	
27	294.393124	54.186307	No_ID	
28	294.394334	54.184460	No_ID	
29	294.399297	54.249758	No_ID	
30	294.402828	54.292446	No_ID	
31	294.403590	54.287122	No_ID	
32	294.401508	54.248420	No_ID	

33	294.402048	54.231753	LSPM J1937+5413	HighPM*
34	294.404825	54.268628	No_ID	
35	294.401649	54.200913	No_ID	
36	294.405582	54.237895	LSPM J1937+5413	HighPM*
37	294.405082	54.210321	No_ID	
38	294.409586	54.283672	No_ID	
40	294.412005	54.285503	No_ID	
41	294.410063	54.241805	No_ID	
42	294.412042	54.245338	No_ID	
43	294.413112	54.264270	No_ID	
44	294.411065	54.211987	No_ID	
45	294.413438	54.228603	LSPM J1937+5413	HighPM*
46	294.412746	54.210744	No_ID	
47	294.415297	54.220729	LSPM J1937+5413	HighPM*
48	294.419923	54.237310	No_ID	
49	294.418289	54.196250	No_ID	
50	294.421466	54.210537	No_ID	
51	294.425307	54.254942	No_ID	
52	294.436234	54.288429	No_ID	
53	294.432571	54.219111	No_ID	
54	294.436020	54.270695	No_ID	
55	294.442383	54.268608	No_ID	
56	294.441655	54.233542	No_ID	
57	294.441582	54.218872	No_ID	
58	294.446702	54.276438	No_ID	
59	294.447608	54.291709	No_ID	
60	294.444866	54.229034	No_ID	
61	294.446420	54.233990	1H 1936+541	Star
62	294.448999	54.252194	No_ID	
63	294.445607	54.185294	No_ID	
64	294.447813	54.197465	No_ID	
65	294.453730	54.220373	No_ID	
66	294.458817	54.266409	No_ID	
67	294.455766	54.214988	No_ID	
68	294.456817	54.204313	No_ID	

69	294.461304	54.274759	No_ID	
70	294.463523	54.264130	No_ID	
71	294.462544	54.229476	1H 1936+541	Star
72	294.467007	54.259558	No_ID	
73	294.473535	54.277029	TYC 3934-86-1	Star
74	294.471487	54.200723	No_ID	
75	294.477599	54.282463	TYC 3934-86-1	Star
76	294.476266	54.226413	No_ID	
77	294.474017	54.185850	No_ID	
78	294.480076	54.285280	TYC 3934-86-1	Star
79	294.481272	54.280496	TYC 3934-86-1	Star
80	294.476145	54.196539	No_ID	
82	294.484981	54.288571	TYC 3934-10-1	Star
83	294.484984	54.293926	TYC 3934-10-1	Star
84	294.485294	54.293923	TYC 3934-10-1	Star
85	294.481337	54.216682	No_ID	
86	294.483207	54.209948	No_ID	
87	294.488088	54.269245	No_ID	
88	294.484538	54.183689	No_ID	
89	294.488650	54.247272	ZTF J193800.80+541455.5	EclBin
90	294.486250	54.194295	No_ID	
91	294.493929	54.271499	No_ID	
92	294.488866	54.182644	No_ID	
93	294.492666	54.238655	No_ID	
94	294.502271	54.283896	No_ID	
95	294.497834	54.202761	No_ID	
96	294.503130	54.260426	ZTF J193802.85+541538.0	BYDraV*
97	294.503027	54.248565	ZTF J193800.80+541455.5	EclBin
98	294.504196	54.256970	ZTF J193802.85+541538.0	BYDraV*
99	294.501667	54.192977	No_ID	
100	294.507245	54.267050	ZTF J193802.85+541538.0	BYDraV*
101	294.508797	54.270373	ZTF J193802.85+541538.0	BYDraV*
102	294.507492	54.249645	ZTF J193800.80+541455.5	EclBin
103	294.508377	54.241588	ZTF J193800.80+541455.5	EclBin
104	294.509935	54.250694	ZTF J193800.80+541455.5	EclBin

105	294.507096	54.201481	No_ID	
106	294.511578	54.260388	ZTF J193802.85+541538.0	BYDraV*
107	294.515354	54.247391	ZTF J193800.80+541455.5	EclBin
108	294.518024	54.289434	No_ID	
109	294.521226	54.261623	ZTF J193802.85+541538.0	BYDraV*
110	294.524877	54.289100	No_ID	
111	294.518900	54.185811	NVSS J193805+541052	Radio
112	294.522340	54.225366	No_ID	
113	294.520232	54.185756	NVSS J193805+541052	Radio
114	294.522210	54.215538	No_ID	
115	294.526238	54.268597	No_ID	
117	294.534673	54.274983	No_ID	
118	294.532038	54.210680	No_ID	
119	294.534835	54.213285	No_ID	
120	294.534422	54.181002	NVSS J193805+541052	Radio
121	294.538223	54.236705	1RXS J193806.2+541407	X
122	294.542092	54.256845	No_ID	
123	294.543143	54.258792	No_ID	
124	294.540142	54.181526	NVSS J193805+541052	Radio
126	294.546191	54.267572	No_ID	
127	294.548949	54.291563	TYC 3934-540-1	Star
128	294.548416	54.286580	TYC 3934-540-1	Star
129	294.548818	54.291638	TYC 3934-540-1	Star
130	294.549440	54.243949	No_ID	
131	294.550807	54.262793	No_ID	
132	294.554066	54.282212	TYC 3934-540-1	Star

## 6. Polarimetría — Tabla de parámetros

Par	q (%)	u (%)	P (%)	$\theta$ (°)	Error (%)
0	1.89	-1.05	2.16	-14.59	0.00
1	3.09	-3.07	4.35	-22.40	0.01
2	10.09	3.55	10.69	9.71	0.01
3	11.52	-3.89	12.16	-9.32	0.01
4	0.93	0.11	0.94	3.24	0.00
5	0.93	0.24	0.96	7.13	0.00
6	1.00	-1.14	1.51	-24.36	0.00
7	0.73	-0.05	0.73	-2.13	0.00
8	-8.52	-7.10	11.09	-70.10	0.01
9	7.58	2.69	8.05	9.79	0.01
10	-6.27	-3.60	7.24	-75.06	0.01
11	0.36	1.41	1.46	37.82	0.00
12	0.28	-0.05	0.29	-4.88	0.01
13	0.84	-0.05	0.84	-1.61	0.00
14	1.97	0.89	2.16	12.12	0.01
15	-0.35	0.19	0.39	75.81	0.00
16	1.27	-1.62	2.06	-25.94	0.00
17	5.53	-3.64	6.62	-16.69	0.01
18	1.37	3.55	3.81	34.49	0.01
19	-9.02	4.04	9.89	77.92	0.01
20	2.19	-3.39	4.04	-28.58	0.01
21	0.36	-0.35	0.50	-21.73	0.00
22	-2.51	1.44	2.89	75.03	0.01
23	0.80	0.84	1.16	23.31	0.00
24	1.38	-0.65	1.53	-12.58	0.00
25	12.08	9.24	15.21	18.71	0.01
26	-1.00	1.91	2.16	58.80	0.01
27	-14.79	21.70	26.26	62.14	0.01
28	0.06	-0.11	0.12	-30.91	0.00
29	0.75	0.38	0.84	13.38	0.00
30	0.71	-4.95	5.01	-40.90	0.01
31	3.50	-0.87	3.61	-6.97	0.01
32	-0.08	0.19	0.21	56.52	0.00

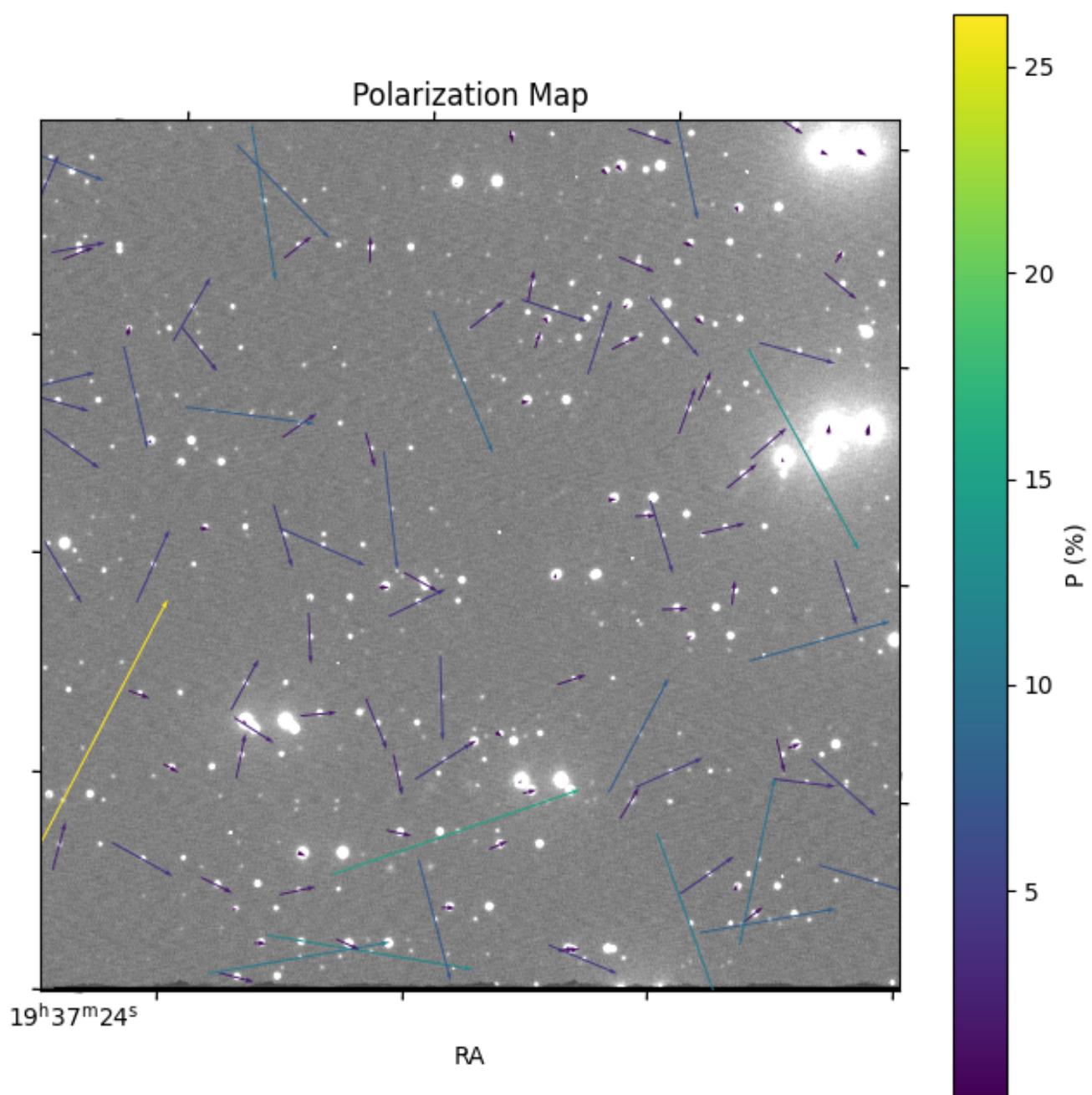
33	-2.21	-1.02	2.44	-77.59	0.01
34	2.96	3.12	4.30	23.25	0.01
35	0.53	-0.84	0.99	-28.82	0.00
36	1.70	3.52	3.90	32.13	0.01
37	-2.41	1.03	2.62	78.45	0.01
38	-1.79	-0.88	2.00	-76.91	0.01
40	0.59	0.51	0.78	20.57	0.00
41	0.25	0.37	0.45	27.85	0.00
42	0.08	-0.50	0.51	-40.24	0.00
43	-4.17	6.18	7.45	62.03	0.01
44	1.18	-2.46	2.73	-32.18	0.00
45	-2.23	-2.26	3.17	-67.32	0.00
46	0.08	-0.25	0.26	-36.00	0.00
47	2.09	0.41	2.12	5.51	0.00
48	-4.89	-0.30	4.90	-88.27	0.01
49	1.00	-0.83	1.30	-19.87	0.01
50	-1.79	2.80	3.32	61.33	0.01
51	1.41	1.05	1.76	18.40	0.01
52	7.31	4.40	8.53	15.52	0.01
53	-2.92	-0.25	2.93	-87.52	0.01
54	0.23	0.21	0.31	21.54	0.00
55	1.51	0.11	1.51	2.03	0.00
56	2.32	2.83	3.66	25.28	0.01
57	-0.03	0.02	0.04	74.25	0.00
58	-1.39	0.31	1.42	83.80	0.00
59	-3.10	-2.43	3.94	-70.92	0.01
60	0.58	-0.03	0.58	-1.65	0.00
61	1.22	-1.92	2.27	-28.82	0.00
62	-0.25	0.16	0.30	73.40	0.00
63	-1.91	-3.67	4.14	-58.72	0.01
64	-3.05	3.48	4.63	65.60	0.01
65	3.77	-4.01	5.50	-23.36	0.01
66	-3.60	-2.48	4.37	-72.72	0.01
67	-3.16	-2.08	3.78	-73.33	0.01
68	0.60	-0.07	0.61	-3.51	0.00

69	2.36	1.14	2.62	12.93	0.01
70	1.21	0.09	1.21	2.20	0.00
71	-6.62	-1.54	6.80	-83.47	0.01
72	0.47	0.14	0.49	8.36	0.00
73	0.50	2.19	2.25	38.55	0.00
74	-0.06	0.15	0.17	56.07	0.00
75	-0.27	0.03	0.27	87.00	0.00
76	-1.78	-1.04	2.06	-74.80	0.01
77	1.40	-3.74	4.00	-34.76	0.01
78	-6.95	-11.22	13.20	-60.90	0.01
79	0.44	2.66	2.70	40.33	0.01
80	-0.04	-0.26	0.27	-48.79	0.00
82	-0.56	0.14	0.58	82.96	0.00
83	-0.51	0.12	0.52	83.59	0.00
84	-0.60	0.23	0.64	79.39	0.00
85	0.85	2.29	2.44	34.85	0.01
86	7.37	-1.93	7.62	-7.33	0.01
87	-2.19	1.86	2.87	69.81	0.01
88	3.28	-1.94	3.81	-15.29	0.01
89	0.49	-0.01	0.49	-0.57	0.00
90	-5.43	-2.70	6.06	-76.78	0.01
91	-1.26	1.35	1.85	66.45	0.01
92	4.79	2.39	5.35	13.29	0.01
93	-6.14	-6.41	8.88	-66.88	0.01
94	3.95	-2.28	4.56	-15.01	0.01
95	-0.66	-3.18	3.25	-50.85	0.01
96	1.05	1.39	1.74	26.44	0.00
97	-0.81	0.59	1.00	72.08	0.00
98	-3.67	2.60	4.50	72.34	0.01
99	-0.50	0.25	0.55	76.62	0.01
100	-0.81	-4.41	4.48	-50.22	0.01
101	0.12	-0.66	0.67	-39.74	0.00
102	-0.22	-0.39	0.44	-59.55	0.00
103	0.62	2.51	2.59	38.07	0.01
104	3.24	-2.36	4.01	-18.06	0.01

105	-2.03	3.74	4.25	59.22	0.01
106	0.05	0.31	0.32	40.51	0.00
107	-1.78	0.71	1.91	79.12	0.01
108	0.49	-2.38	2.43	-39.14	0.00
109	1.59	-1.60	2.26	-22.58	0.00
110	-0.39	0.75	0.84	58.63	0.01
111	1.49	1.29	1.97	20.53	0.00
112	-1.49	0.08	1.49	88.54	0.00
113	3.02	1.09	3.21	9.92	0.00
114	0.49	1.98	2.04	38.01	0.01
115	0.45	-0.46	0.65	-22.73	0.00
117	-0.29	-0.30	0.42	-66.73	0.00
118	-8.61	-2.75	9.04	-81.15	0.01
119	0.04	-7.59	7.59	-44.84	0.01
120	-2.55	2.75	3.75	66.39	0.01
121	0.10	0.06	0.12	15.67	0.00
122	0.01	-0.48	0.48	-44.49	0.00
123	-0.01	-0.54	0.54	-45.39	0.00
124	4.91	-4.51	6.66	-21.29	0.01
126	-6.68	-2.97	7.31	-78.03	0.01
127	0.28	-0.45	0.53	-29.21	0.00
128	0.30	-0.37	0.48	-25.69	0.00
129	0.35	-0.54	0.64	-28.72	0.00
130	-0.65	-0.31	0.72	-77.09	0.01
131	2.16	-1.64	2.71	-18.56	0.00
132	0.55	-1.20	1.32	-32.64	0.00

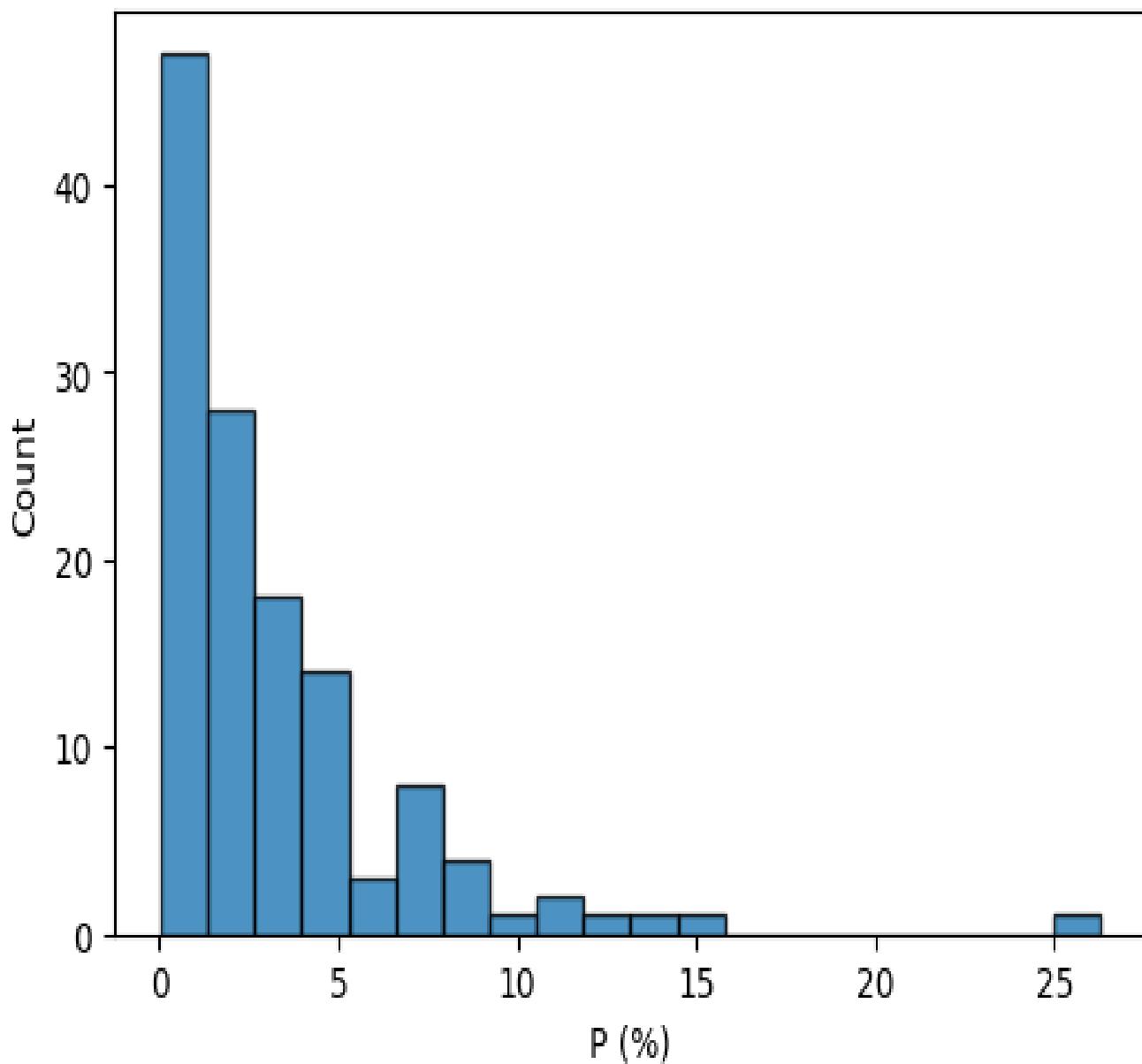
## 6. Polarimetría — Mapa de polarización

Polarization Map

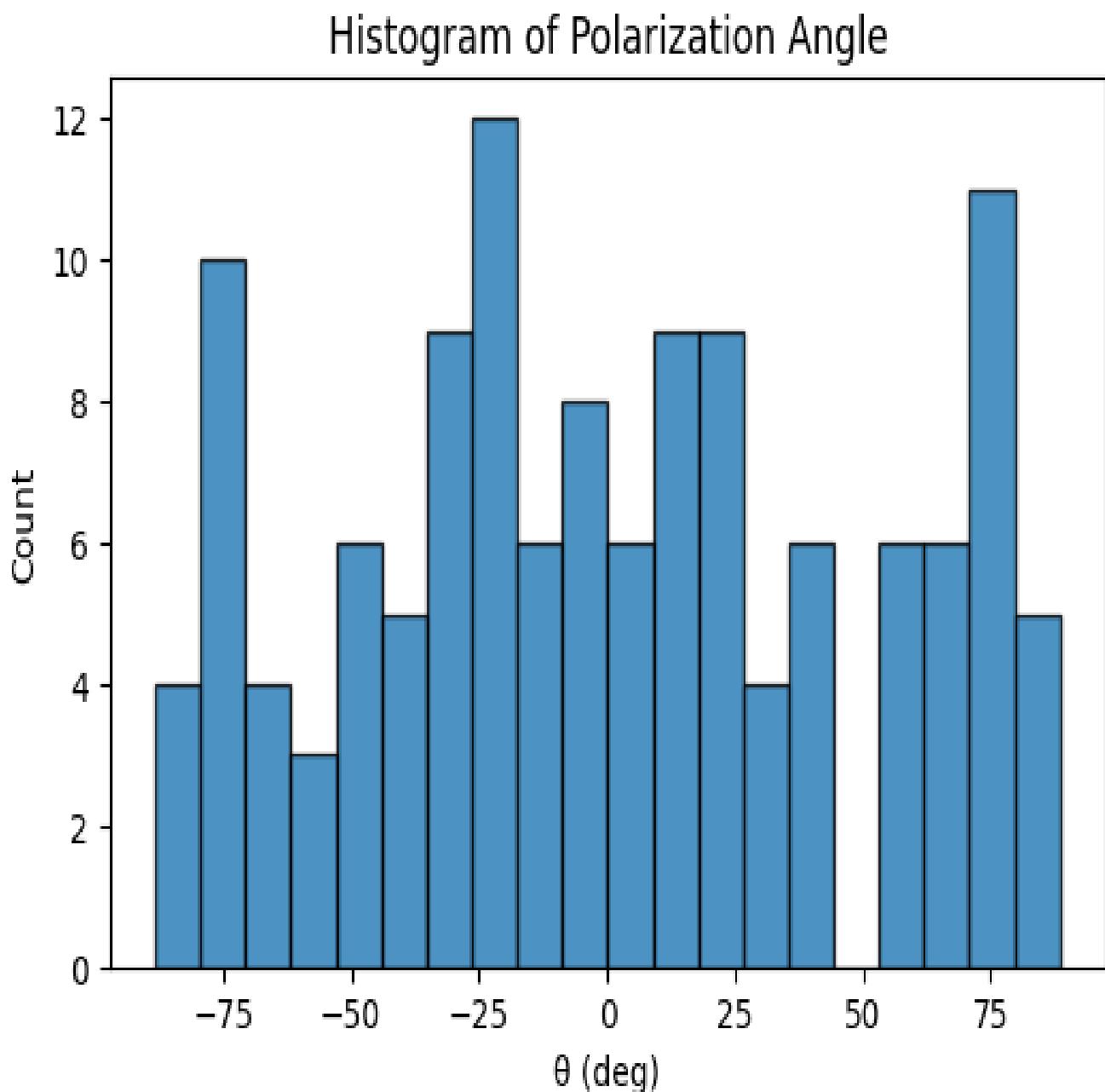


## 6. Polarimetría — Histograma de P

Histogram of Polarization Degree



## 6. Polarimetría — Histograma de $\theta$



## 6. Polarimetría — Diagrama Q–U

