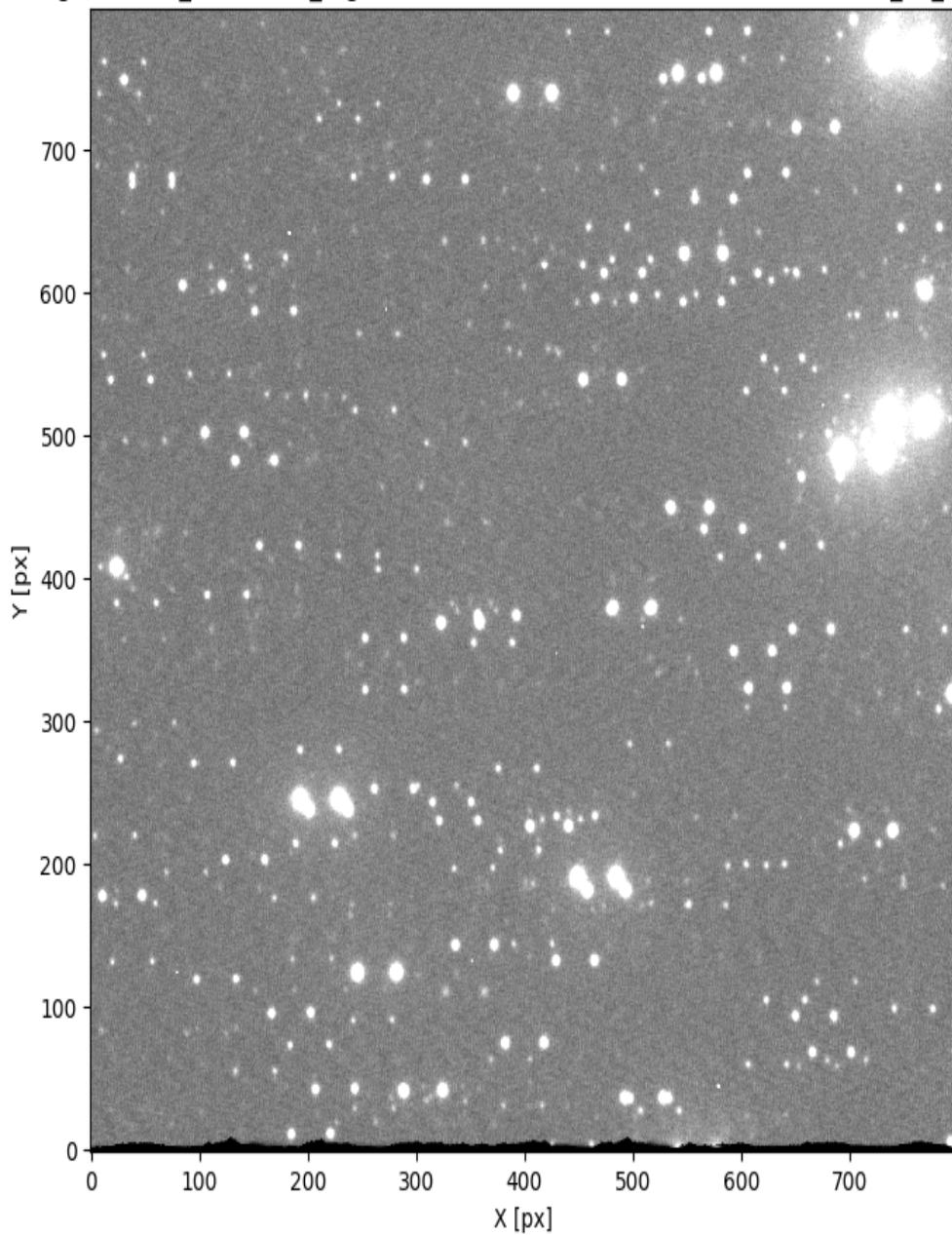
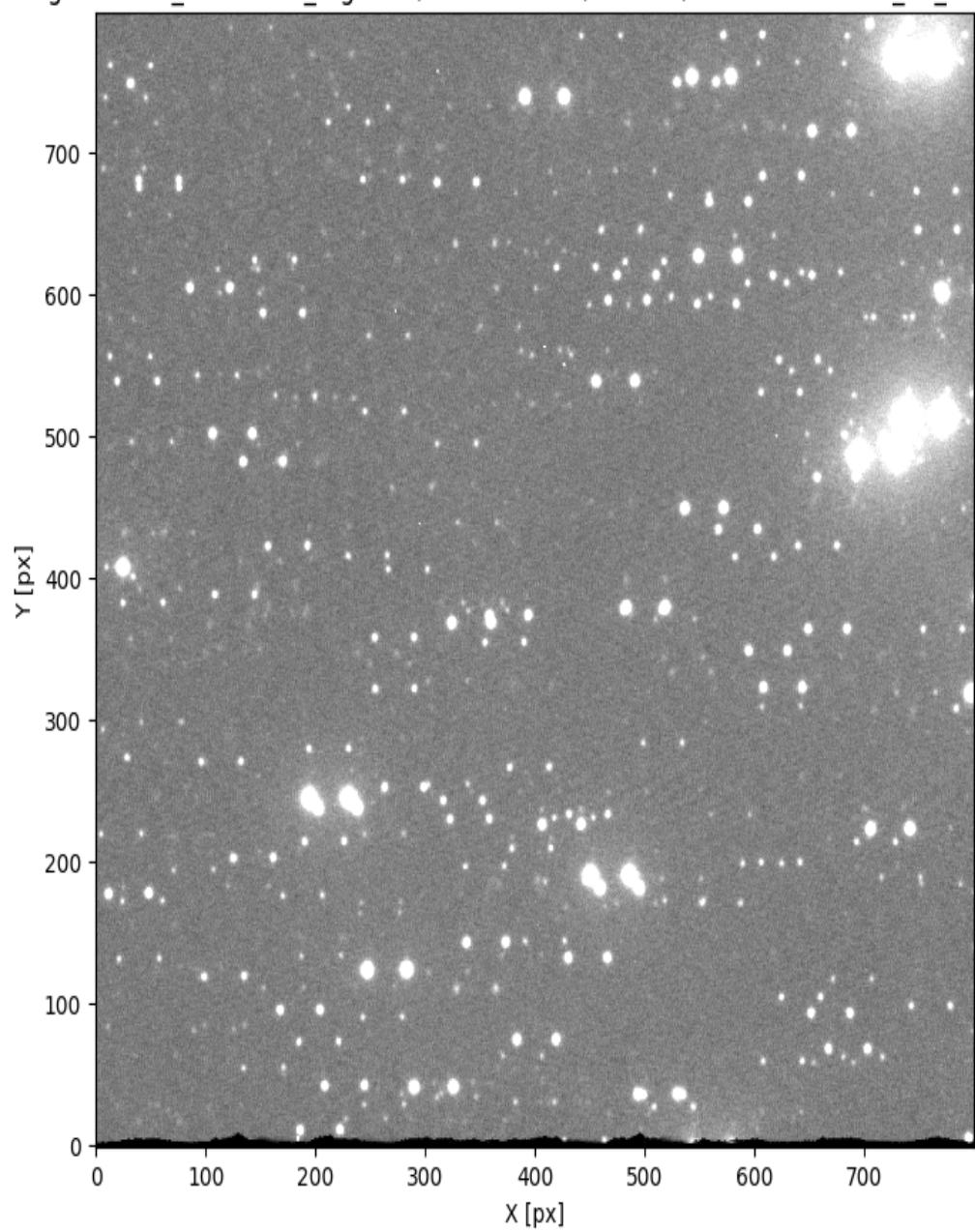


# 1. Imágenes originales

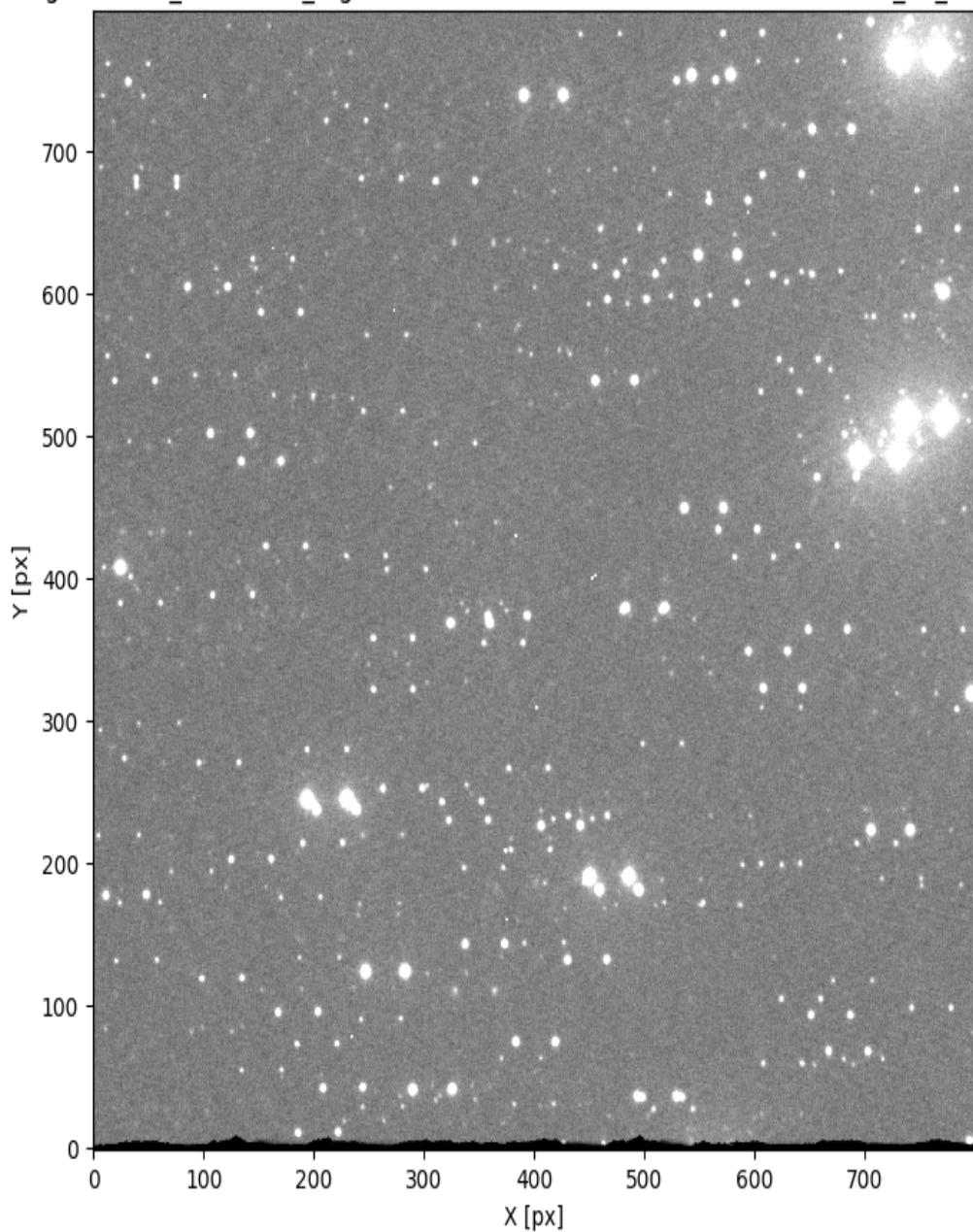
Reference Image noche1\_20230720\_organize/1H1936+541/Bessell/caf-20230721-00\_48\_14-sci-blap\_b\_f.fits



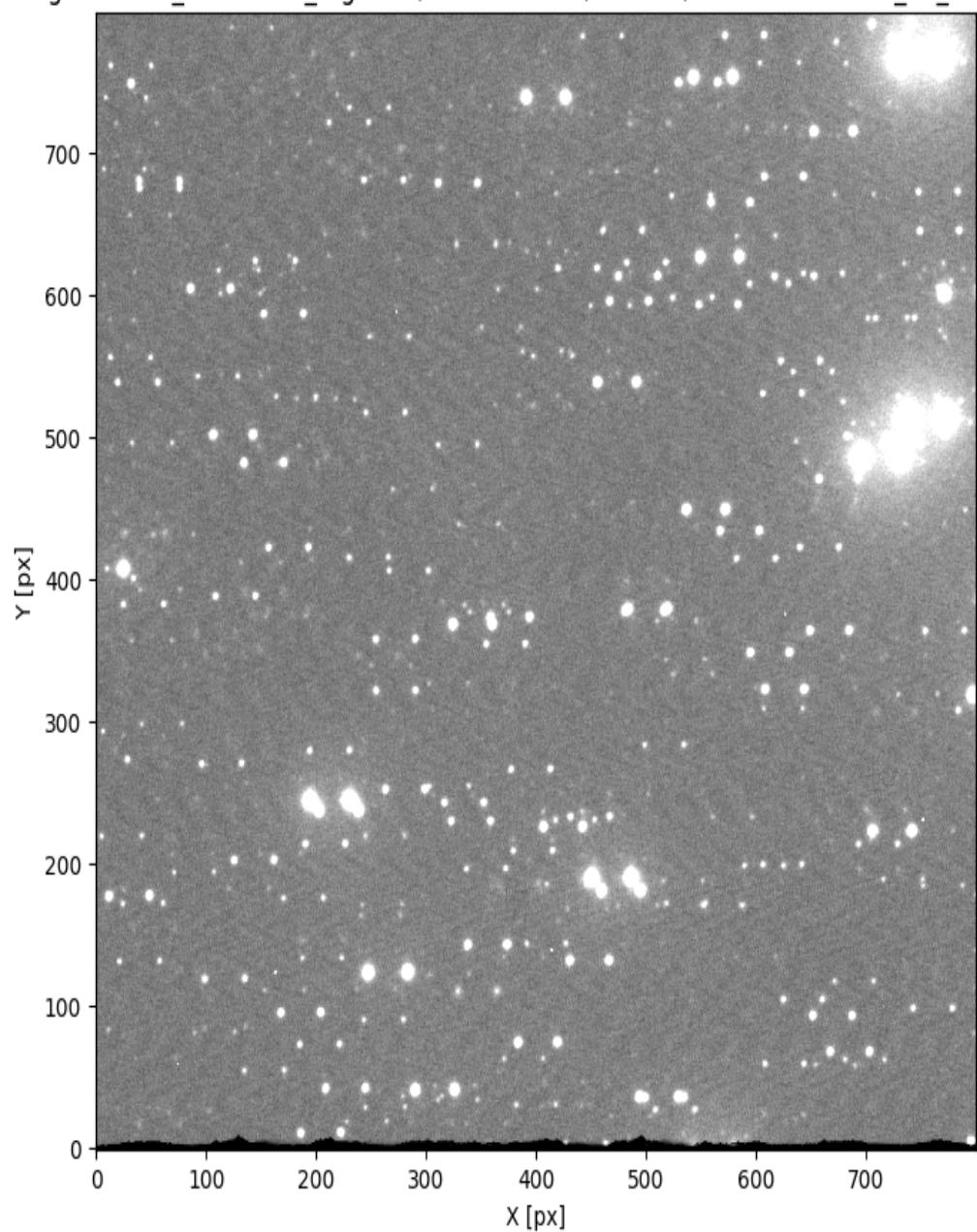
Original Image noche1\_20230720\_organize/1H1936+541/Besselli/caf-20230721-00\_49\_17-sci-blap\_b\_f.fits



Original Image noche1\_20230720\_organize/1H1936+541/Besselli/caf-20230721-00\_50\_21-sci-blap\_b\_f.fits

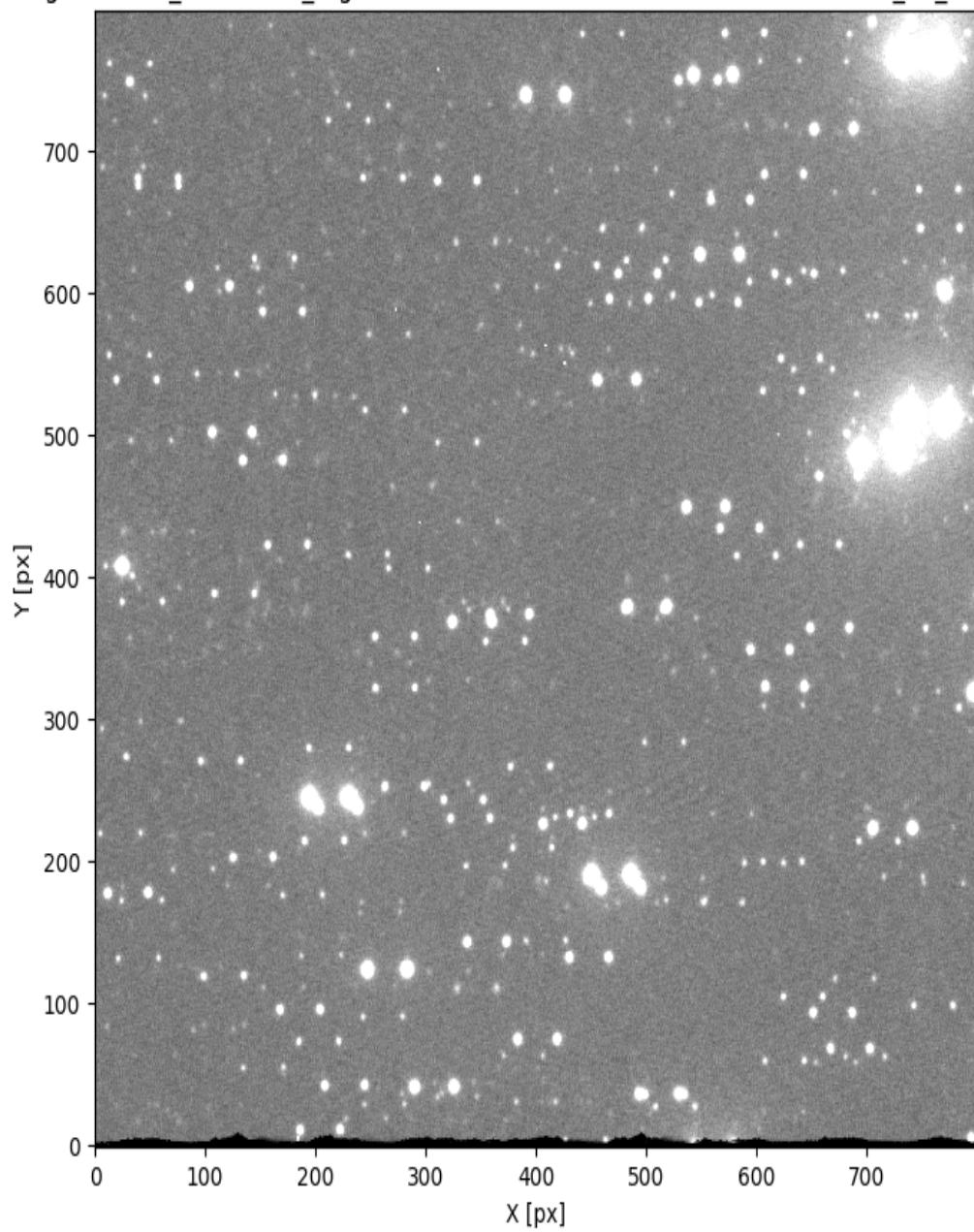


Original Image noche1\_20230720\_organize/1H1936+541/Besselli/caf-20230721-00\_51\_24-sci-blap\_b\_f.fits

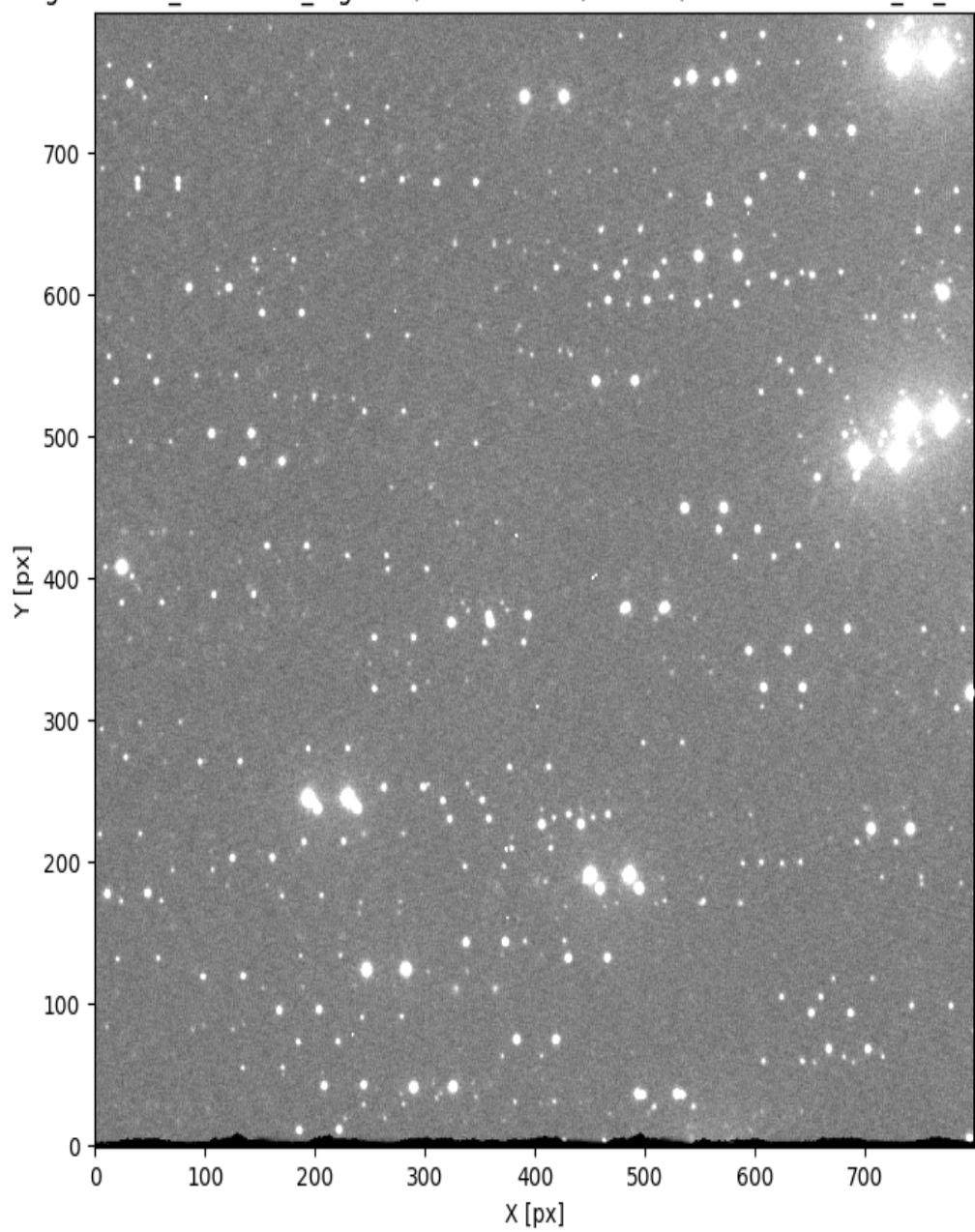


## 2. Imágenes alineadas

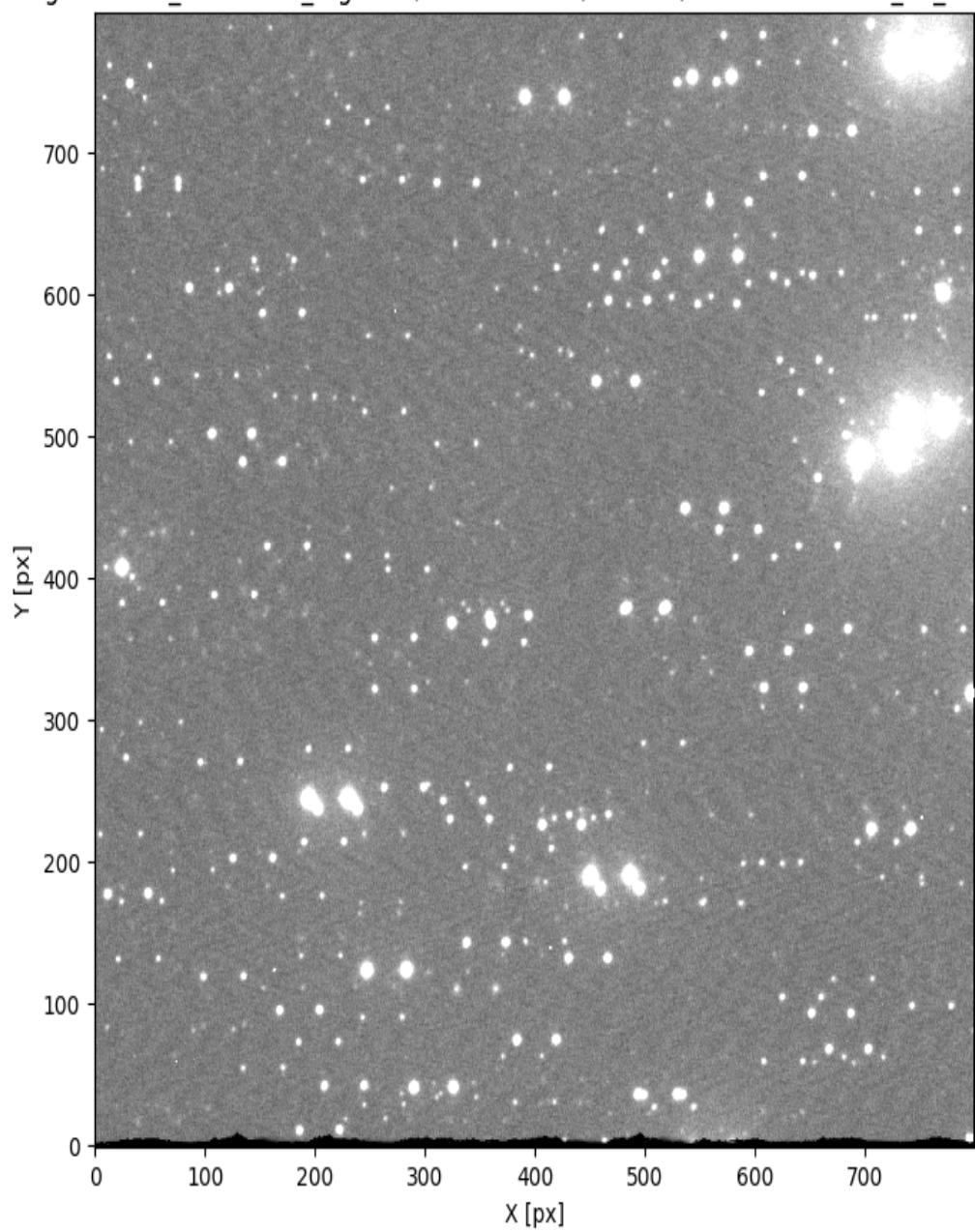
Aligned Image noche1\_20230720\_organize/1H1936+541/Bessell/caf-20230721-00\_49\_17-sci-blap\_b\_f.fits



Aligned Image noche1\_20230720\_organize/1H1936+541/Besselli/caf-20230721-00\_50\_21-sci-blap\_b\_f.fits

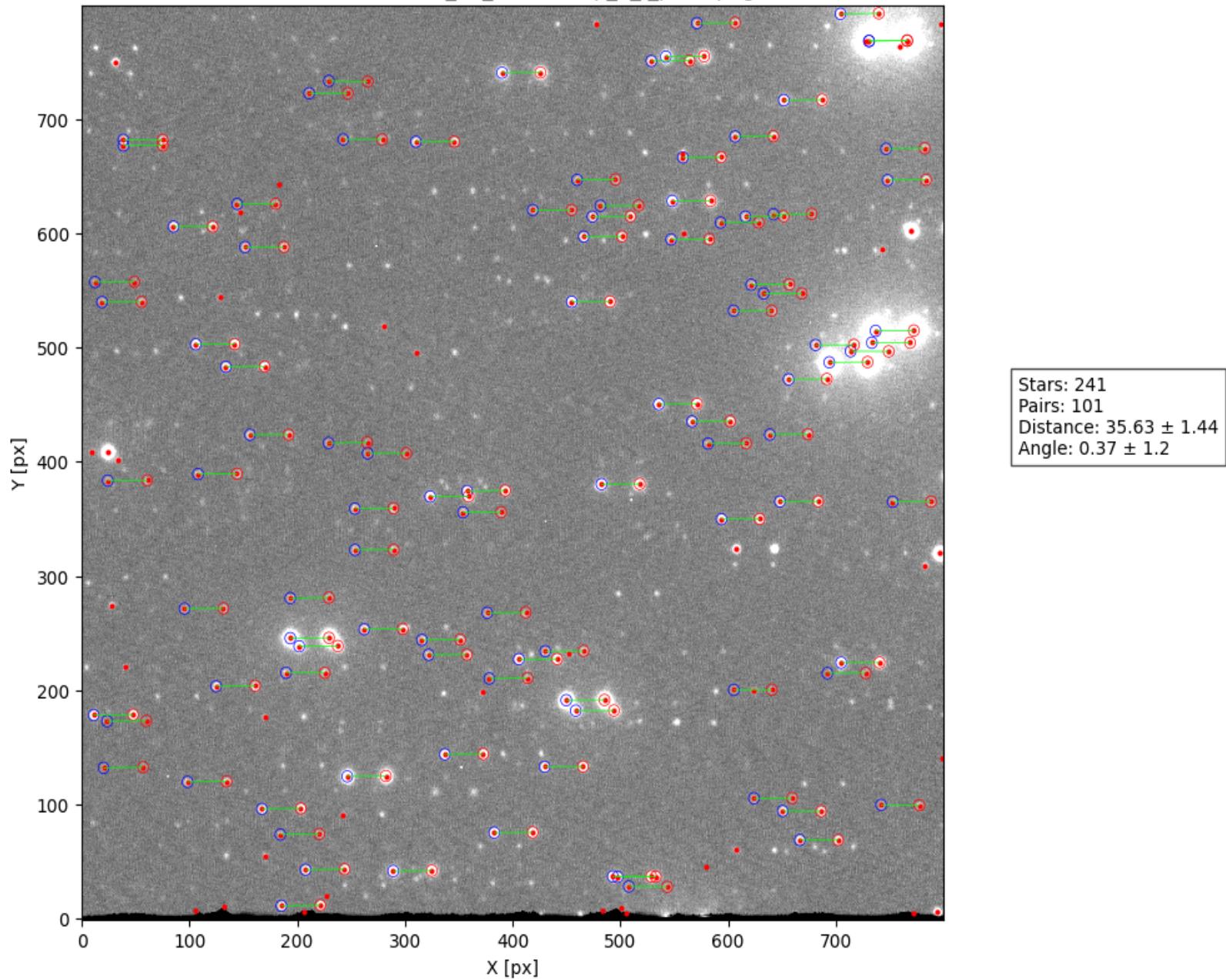


Aligned Image noche1\_20230720\_organize/1H1936+541/BessellII/caf-20230721-00\_51\_24-sci-blap\_b\_f.fits

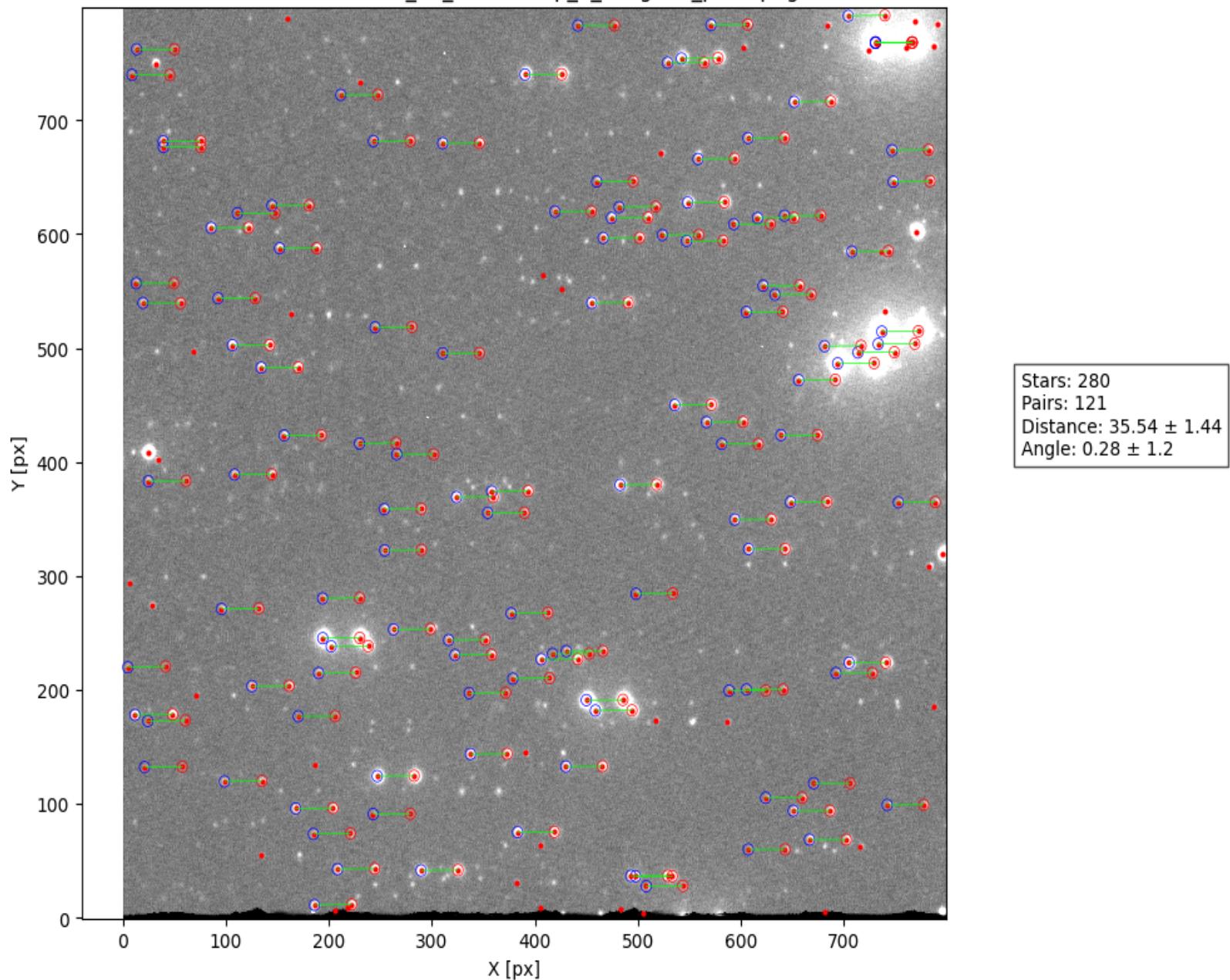


### 3. Imágenes con pares identificados

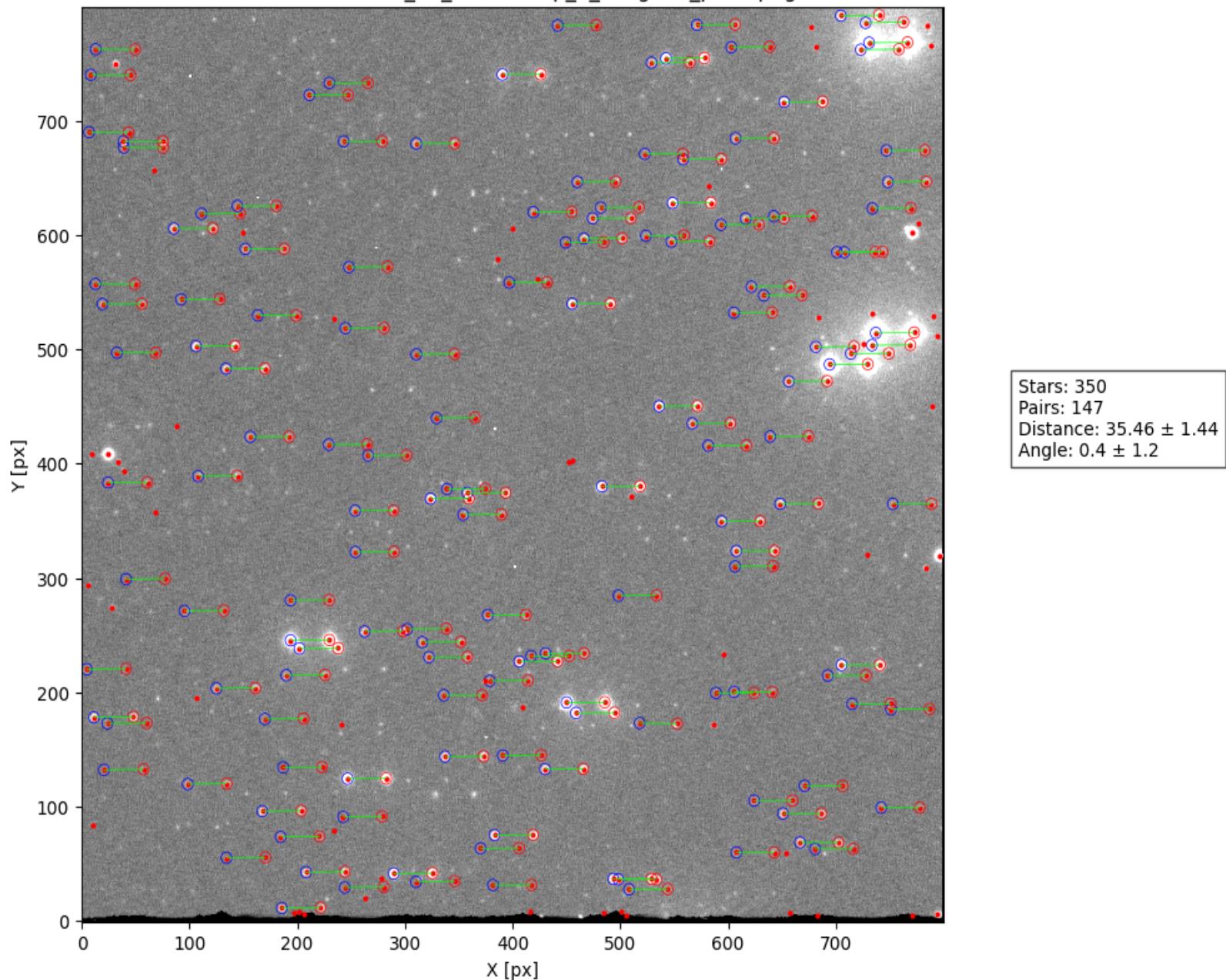
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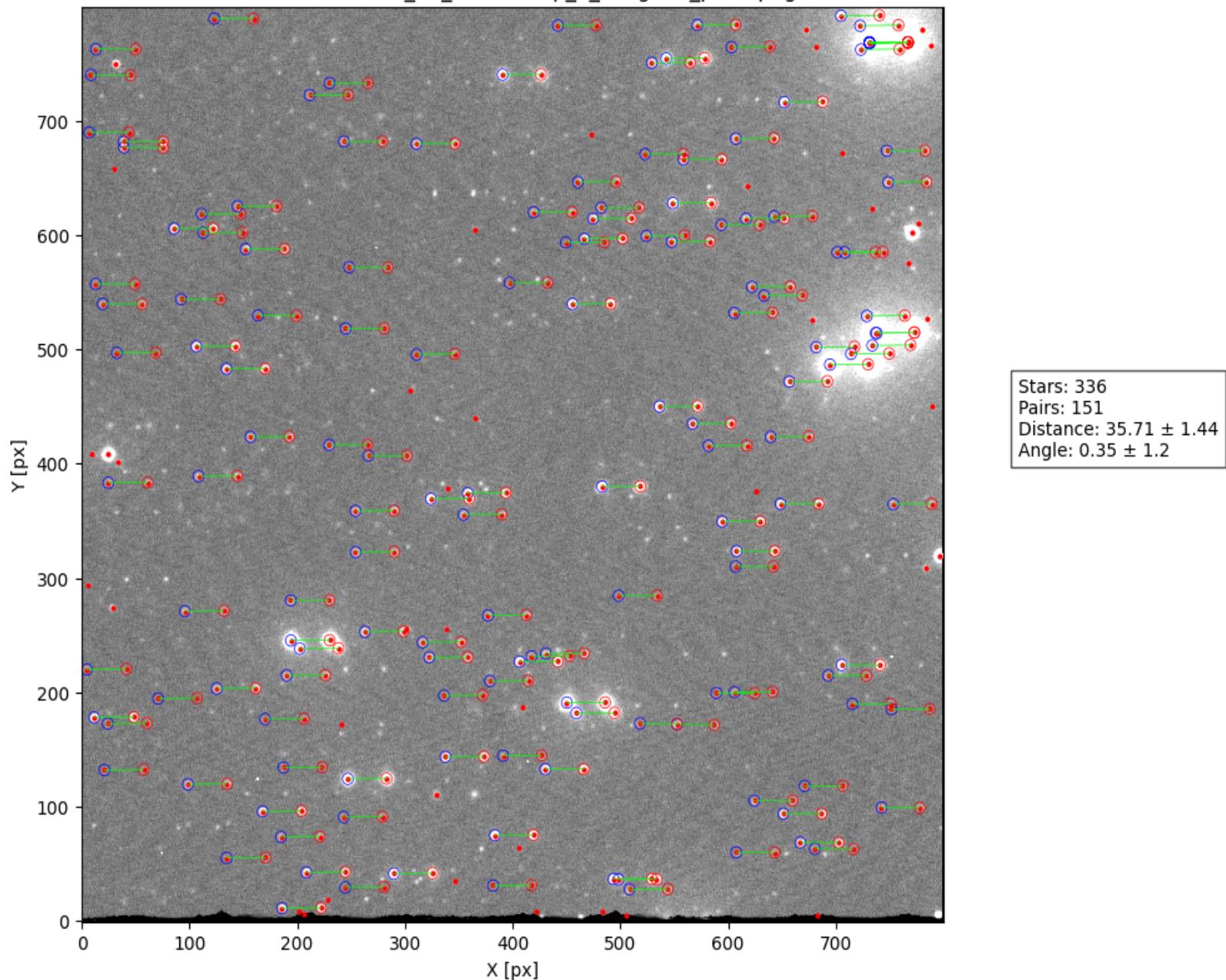
caf-20230721-00\_49\_17-sci-blap\_b\_f-aligned\_pairs.png



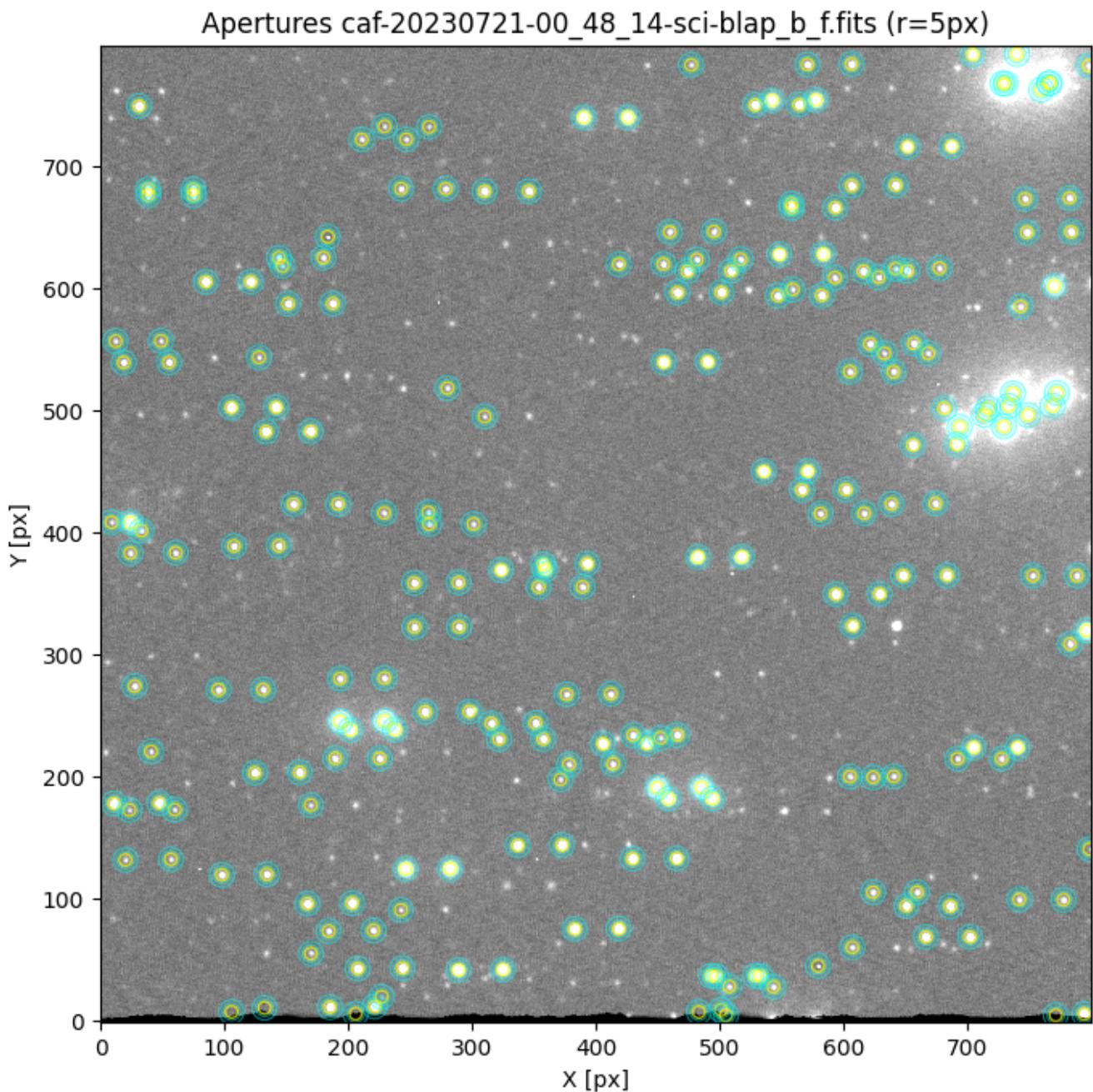
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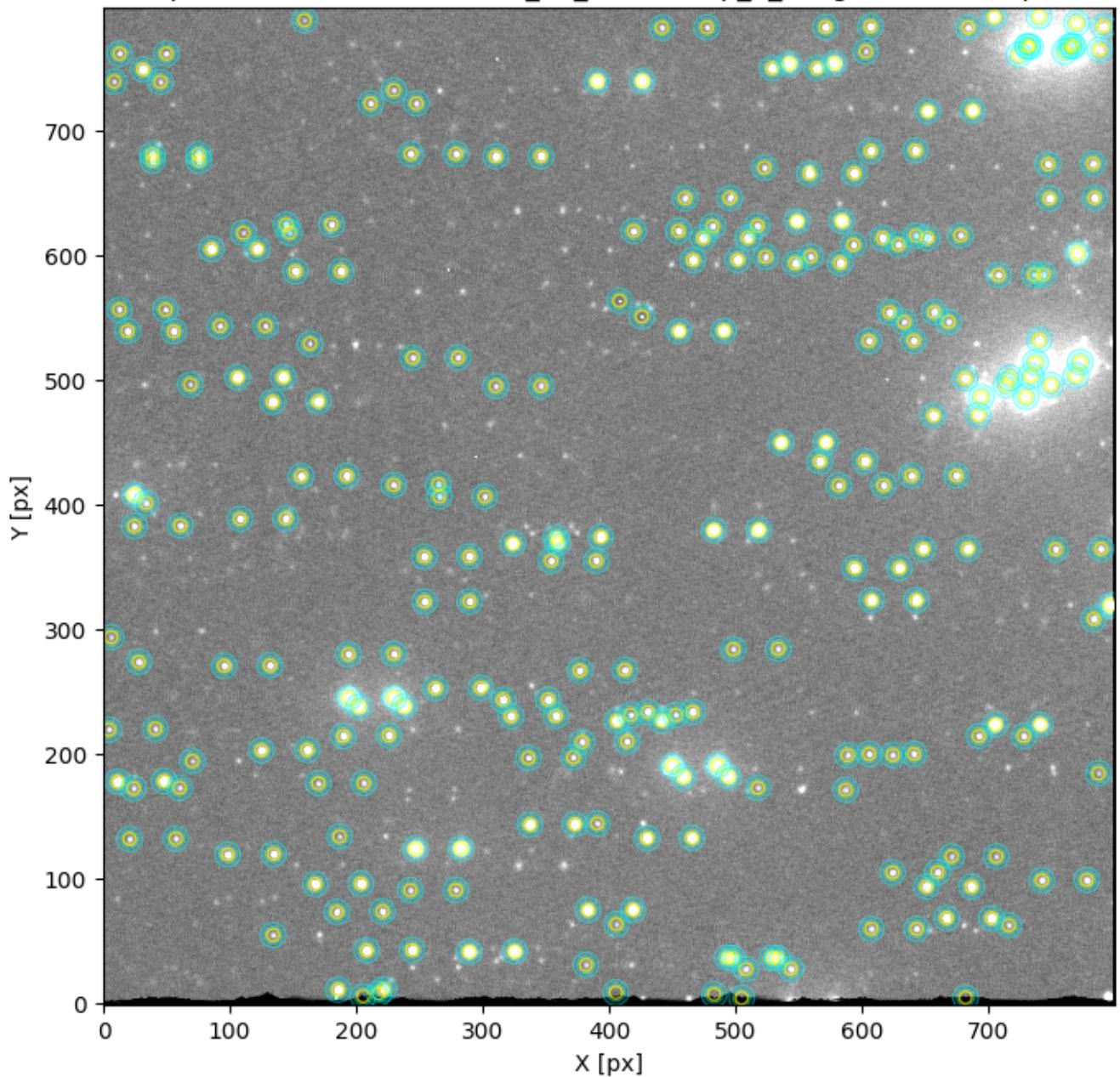
caf-20230721-00\_51\_24-sci-blap\_b\_f-aligned\_pairs.png



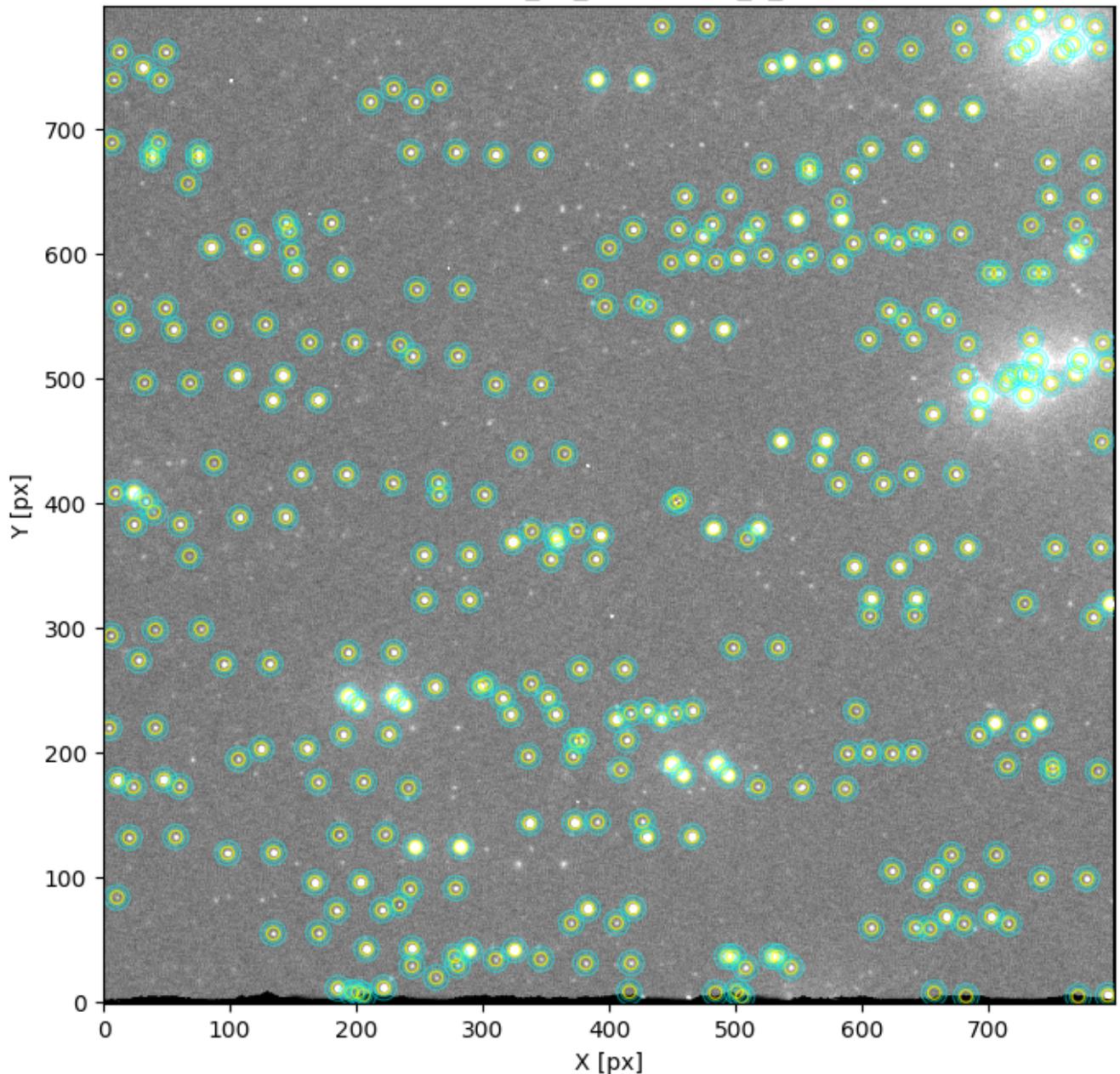
## 4. Fotometría — Aperturas



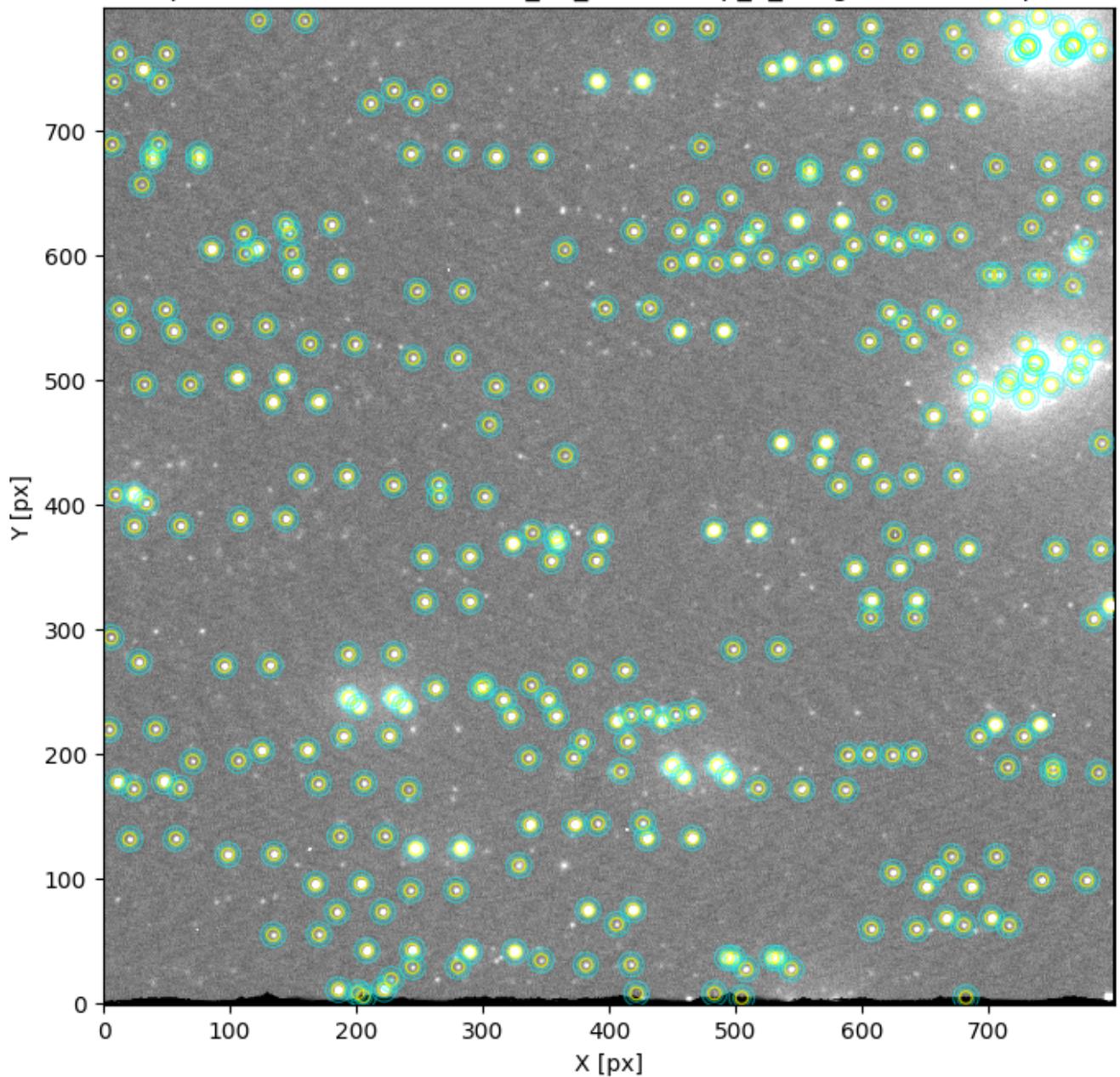
Apertures caf-20230721-00\_49\_17-sci-blap\_b\_f-aligned.fits (r=5px)



Apertures caf-20230721-00\_50\_21-sci-blap\_b\_f-aligned.fits (r=5px)

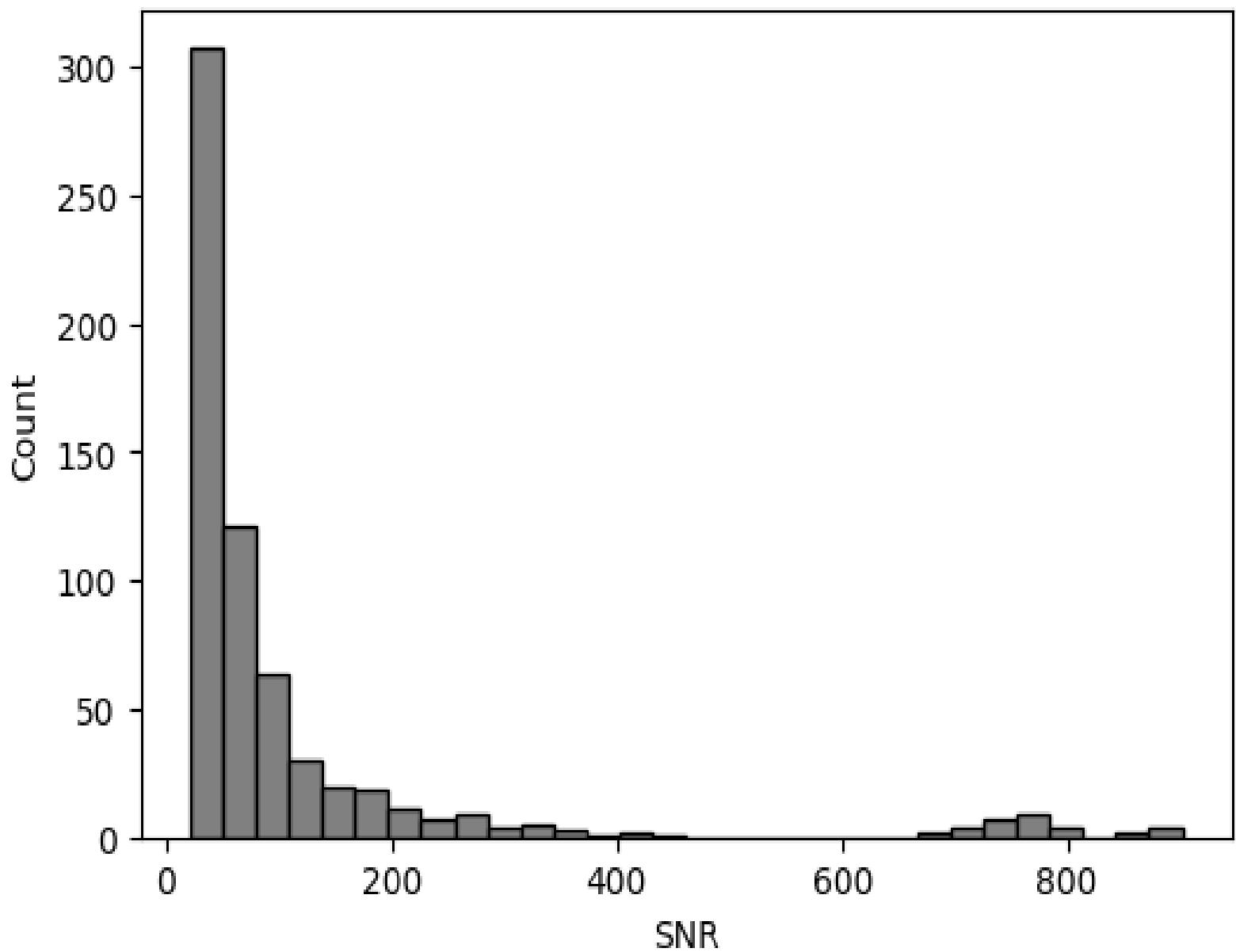


Apertures caf-20230721-00\_51\_24-sci-blap\_b\_f-aligned.fits ( $r=5\text{px}$ )

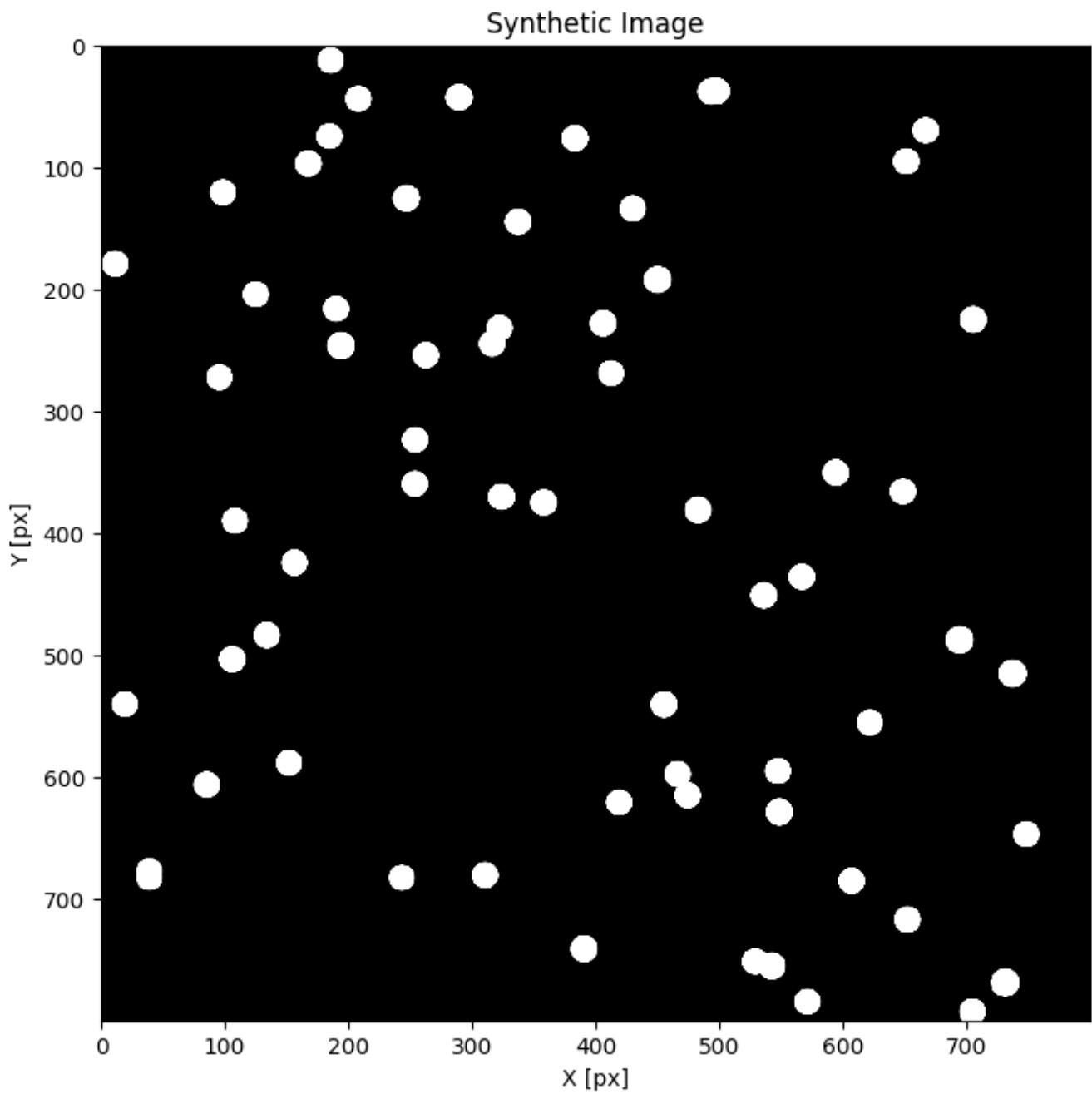


## 4. Fotometría — Histograma de SNR

Distribution of Photometry SNR



## 5. Astrometría — Imagen sintética

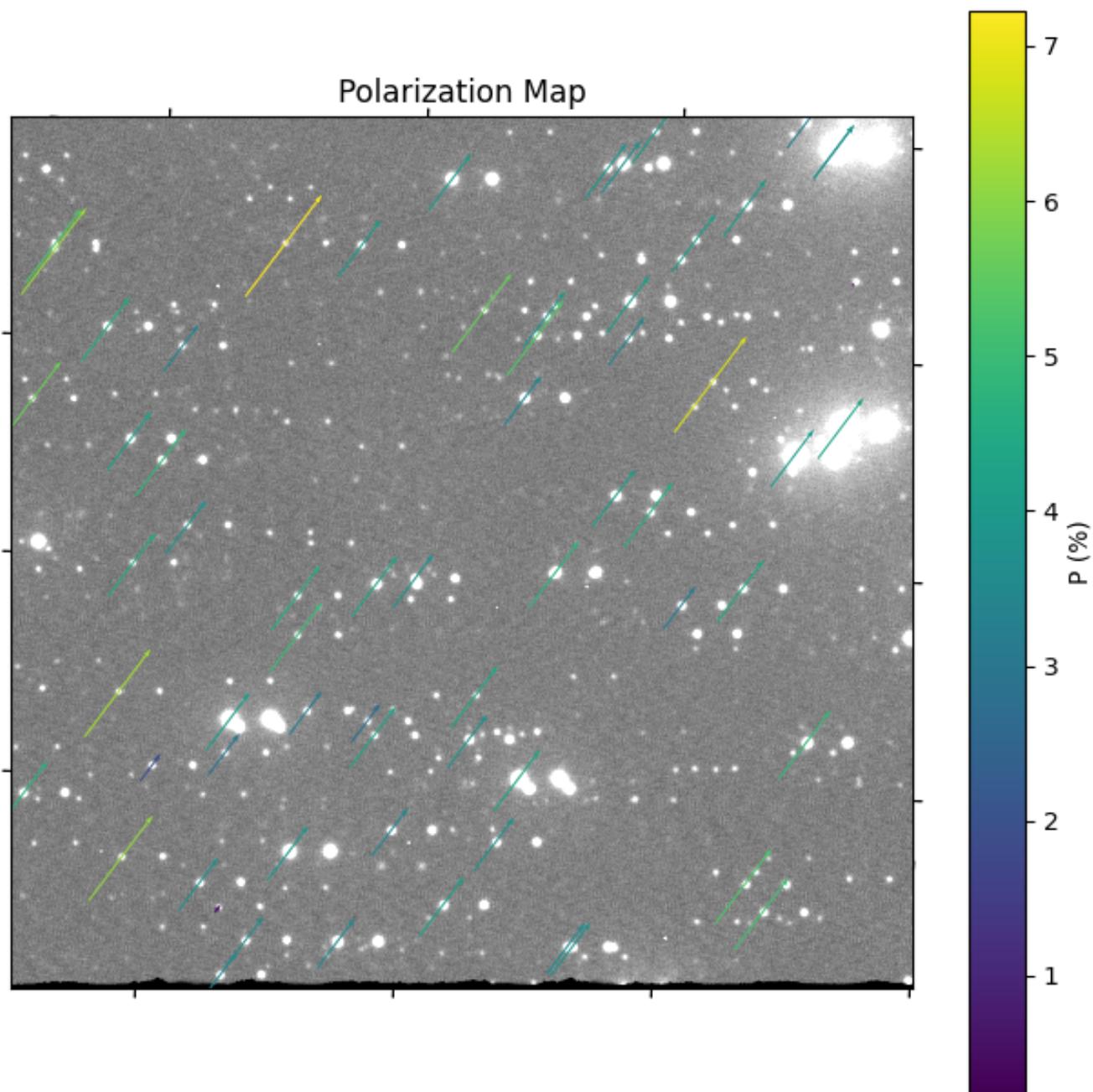


## 5. Astrometría — Resultados SIMBAD

Par	RA (°)	DEC (°)	Simbad ID	Object Type
0	294.354311	54.210795	No_ID	
2	294.363400	54.255521	TYC 3934-44-1	Star
3	294.363332	54.256168	TYC 3934-44-1	Star
4	294.362788	54.225772	No_ID	
5	294.362373	54.213901	No_ID	
6	294.372895	54.280680	No_ID	
7	294.369832	54.210326	No_ID	
8	294.371992	54.239269	No_ID	
9	294.379094	54.278234	No_ID	
10	294.375280	54.207706	No_ID	
13	294.380573	54.197510	No_ID	
14	294.383052	54.219116	No_ID	
16	294.386782	54.245785	No_ID	
17	294.388680	54.232212	No_ID	
19	294.394400	54.184494	No_ID	
21	294.401493	54.248414	No_ID	
23	294.401643	54.200935	No_ID	
25	294.405169	54.210348	No_ID	
27	294.412017	54.285487	No_ID	
28	294.410057	54.241804	No_ID	
29	294.410272	54.229563	LSPM J1937+5413	HighPM*
32	294.413447	54.228587	LSPM J1937+5413	HighPM*
33	294.412761	54.210753	No_ID	
34	294.415318	54.220728	LSPM J1937+5413	HighPM*
35	294.420335	54.242516	No_ID	
36	294.418350	54.196290	No_ID	
38	294.432564	54.219093	No_ID	
39	294.442369	54.268597	No_ID	
41	294.441580	54.218868	No_ID	
42	294.446722	54.276433	No_ID	
44	294.444852	54.229029	No_ID	
45	294.446349	54.233999	1H 1936+541	Star

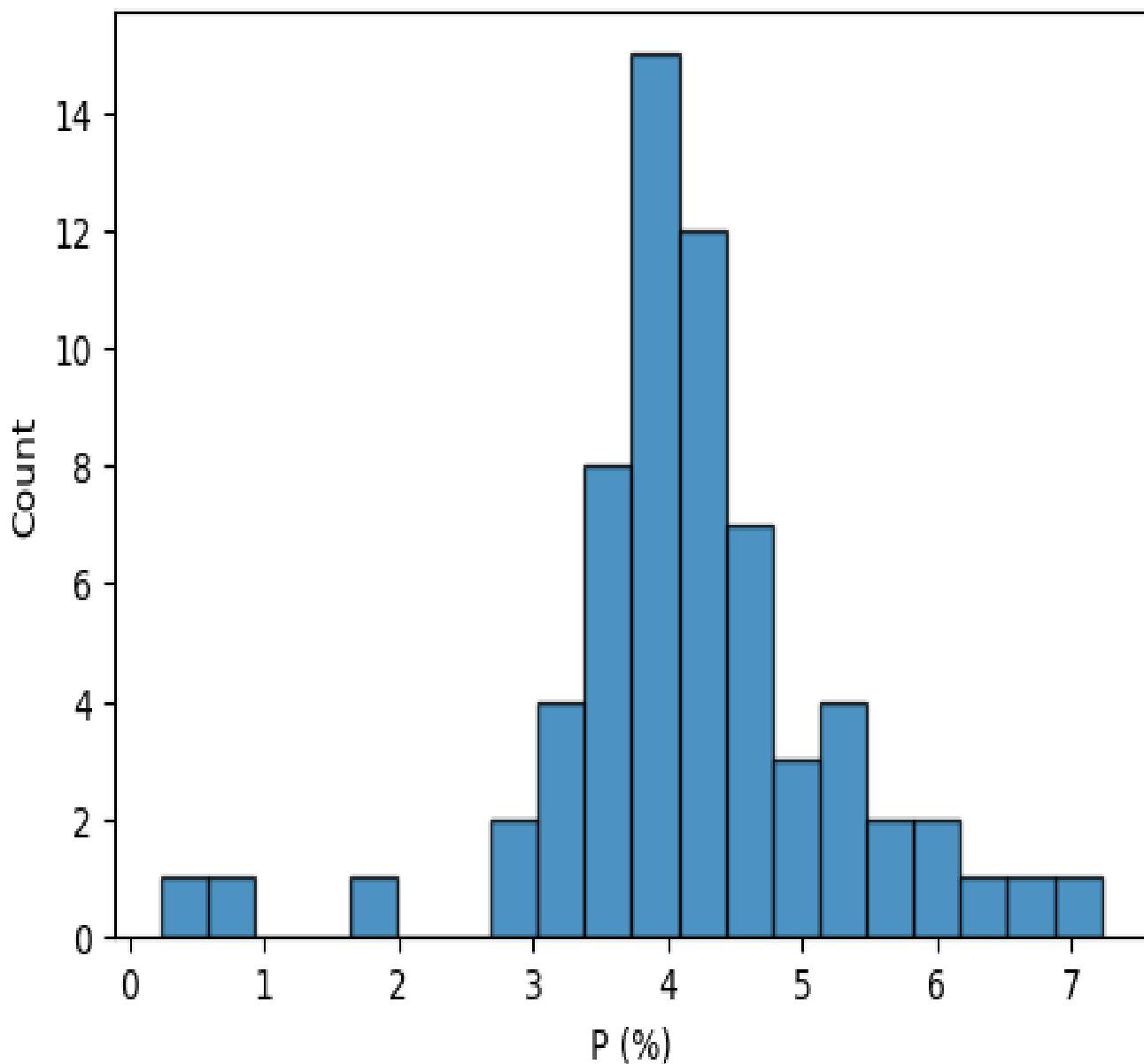
46	294.448996	54.252185	No_ID	
48	294.447836	54.197473	No_ID	
52	294.456842	54.204304	No_ID	
54	294.463487	54.264135	No_ID	
55	294.466985	54.259561	No_ID	
57	294.471499	54.200711	No_ID	
58	294.477617	54.282474	TYC 3934-86-1	Star
61	294.476158	54.196518	No_ID	
63	294.484898	54.288599	TYC 3934-10-1	Star
65	294.484606	54.183623	No_ID	
66	294.488634	54.247271	ZTF J193800.80+541455.5	EclBin
68	294.493923	54.271509	No_ID	
70	294.497831	54.202719	No_ID	
71	294.503147	54.260431	ZTF J193802.85+541538.0	BYDraV*
72	294.503012	54.248569	ZTF J193800.80+541455.5	EclBin
73	294.501697	54.192914	No_ID	
76	294.507464	54.249650	ZTF J193800.80+541455.5	EclBin
78	294.508381	54.241528	ZTF J193800.80+541455.5	EclBin
81	294.511579	54.260410	ZTF J193802.85+541538.0	BYDraV*
83	294.518032	54.289497	No_ID	
86	294.519006	54.185723	NVSS J193805+541052	Radio
87	294.522318	54.225352	No_ID	
88	294.520268	54.185683	NVSS J193805+541052	Radio
89	294.522206	54.215495	No_ID	
90	294.526259	54.268621	No_ID	
91	294.534656	54.275027	No_ID	
94	294.538182	54.236694	1RXS J193806.2+541407	X
95	294.542068	54.256856	No_ID	
96	294.543137	54.258816	No_ID	
97	294.548373	54.286299	TYC 3934-540-1	Star
98	294.548373	54.286299	TYC 3934-540-1	Star
99	294.550771	54.262840	No_ID	
100	294.554086	54.282287	TYC 3934-540-1	Star

## 6. Polarimetría — Mapa de polarización



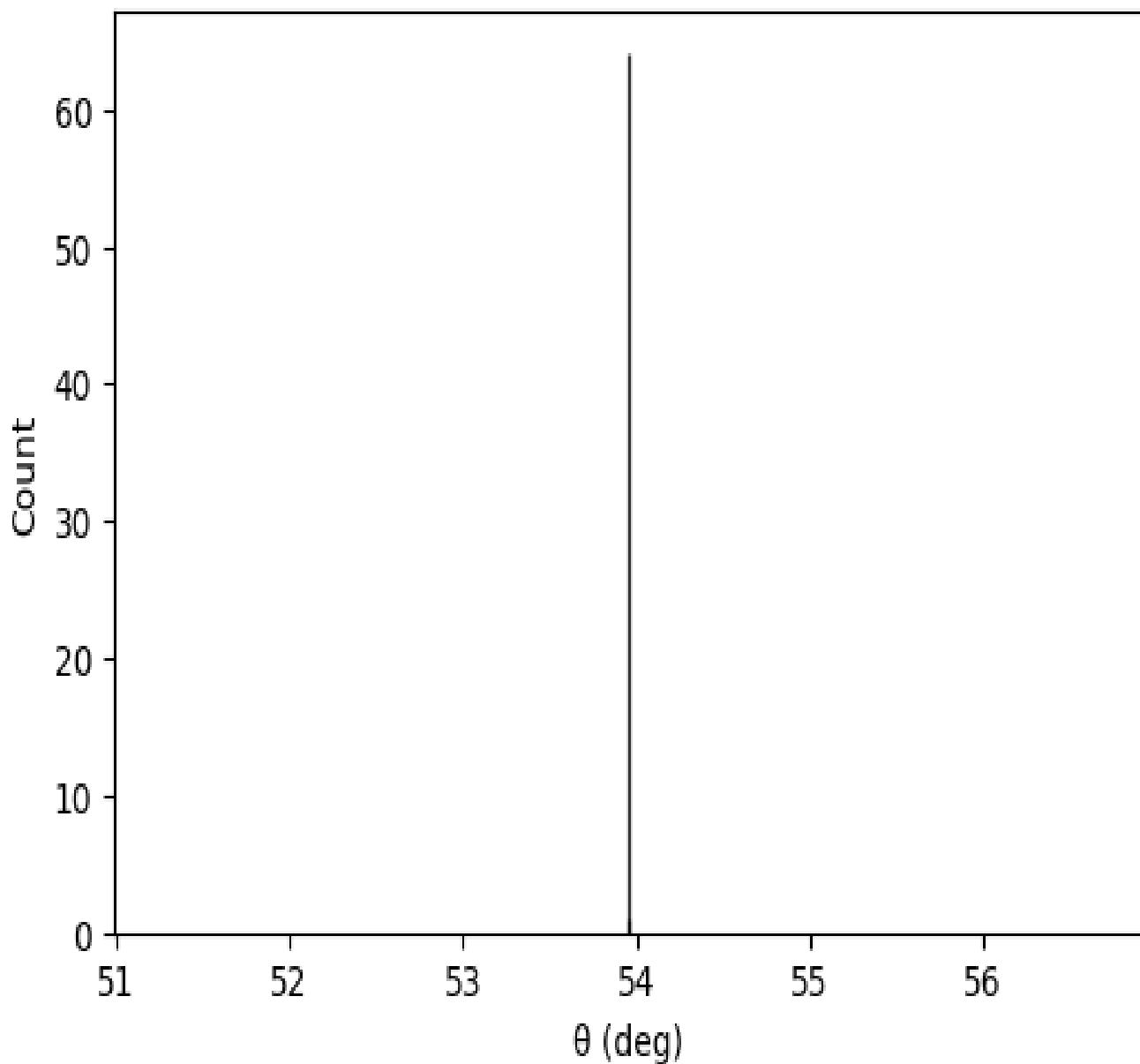
## 6. Polarimetría — Histograma de P

Histogram of Polarization Degree

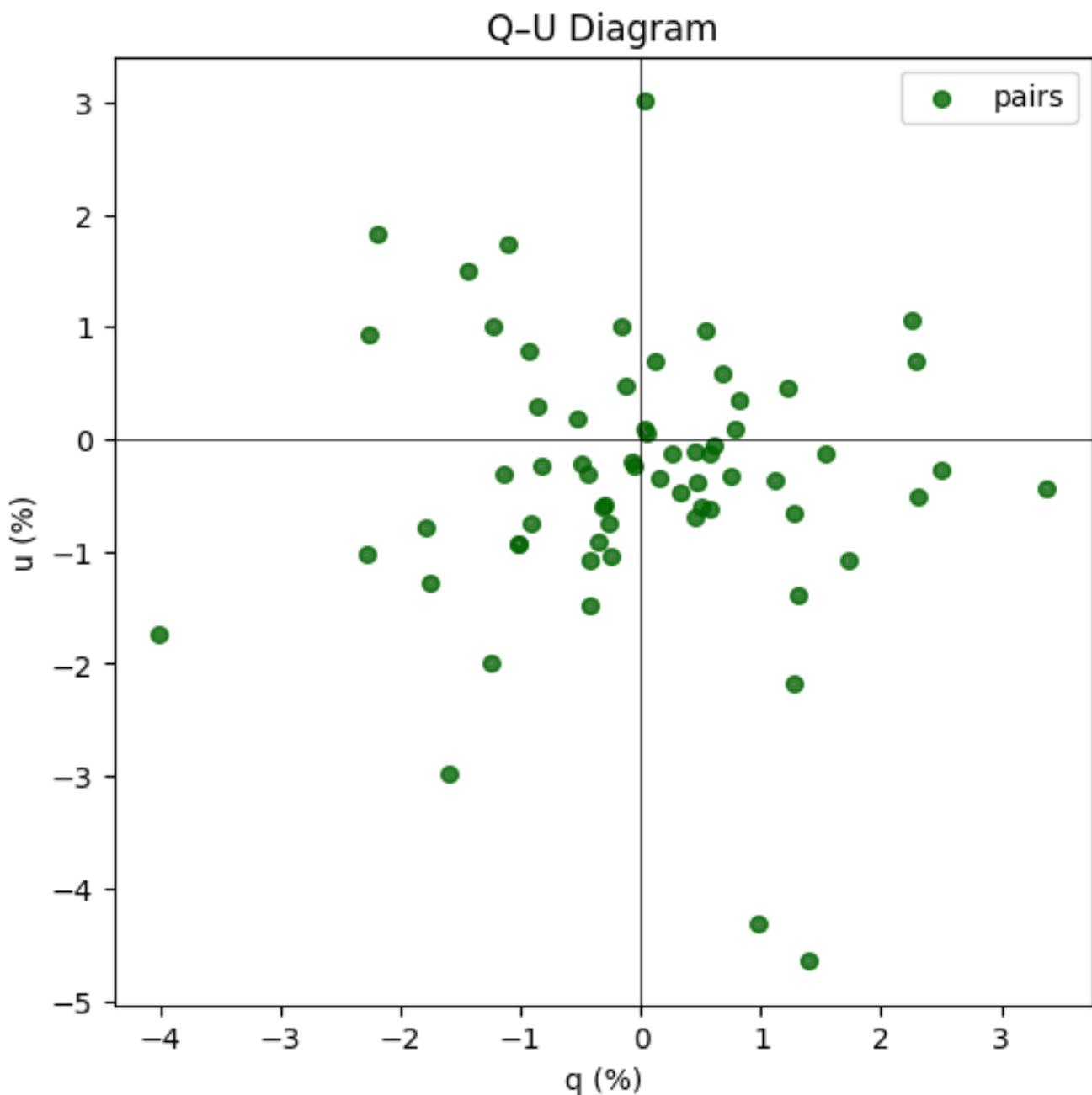


## 6. Polarimetría — Histograma de $\theta$

Histogram of Polarization Angle



## 6. Polarimetría — Diagrama Q–U



## 6. Polarimetría — Estimación Interestelar (ISM)

Comp.	Q mean $\pm$ Q $\sigma$	Q weight	U mean $\pm$ U $\sigma$	U weight
0	-0.015 $\pm$ 0.192	0.5673556912319442	-0.262 $\pm$ 0.262	0.8948824342716836
1	0.563 $\pm$ 0.152	0.43264430876805576	0.592 $\pm$ 0.112	0.1051175657283163

### Explicación de columnas:

**Q Means:** medias de la componente q estimada para la polarización interestelar.

**Q sigmas:** desviaciones estándar ( $\sigma$ ) de los componentes gaussianos ajustados a q.

**Q weights:** pesos relativos de cada componente gaussiano en la mezcla de q.

**U Means:** medias de la componente u estimada para la polarización interestelar.

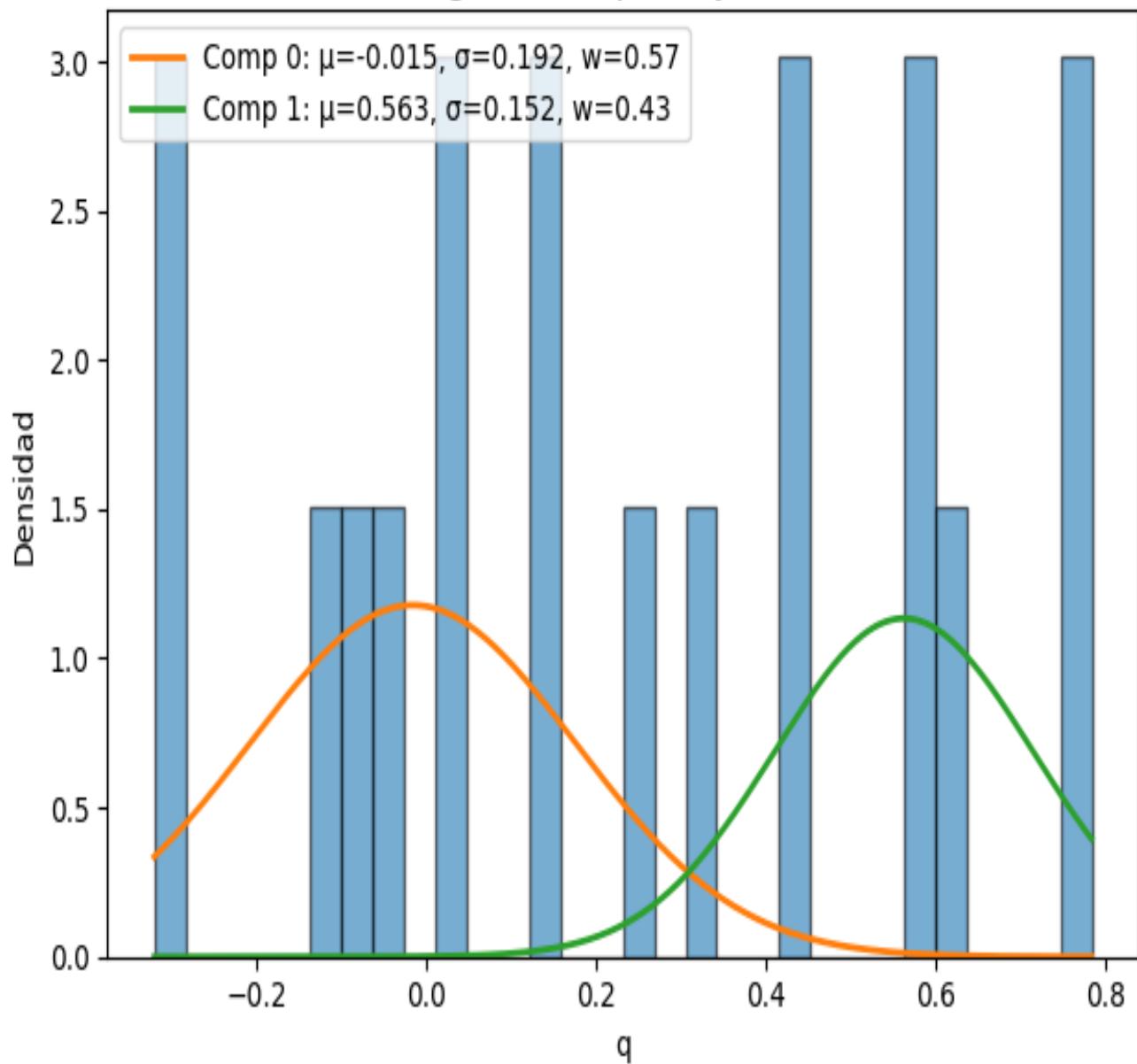
**U sigmas:** desviaciones estándar ( $\sigma$ ) de los componentes gaussianos ajustados a u.

**U weights:** pesos relativos de cada componente gaussiano en la mezcla de u.

## 6. Polarimetría — Histograma de ISM con ajuste GMM

### Q

### Histograma de $q$ con ajuste GMM



## 6. Polarimetría — Histograma de ISM con ajuste GMM U

