

19770901II-RADAR

Dr. Sheets,

Here are the pictures and comments from
the flight on 43 for Sept. 1, 1977.

Dick Elder

770901 I

File.	Time	Alt.	RA	Lat.	Lon.	MO/WS	Scope
1	182500	270.9	5730	26.01	91.36	123/14	PPI
2	184305	263.8	321	26.01	93.10	124/19	PPI
3	185325	216.2	310	25.62	93.63	131/23	RHI
4	190000	196.5	317	25.27	93.90	134/20	PPI
5	190400	223.0	330	25.08	94.09	143/18	PPI
6	190930	257.0	325	25.03	94.48	165/20	PPI
7	191230	253.0	318	25.01	94.69	161/26	PPI
8	191600	251.0	332	24.99	94.94	170/25	Nose
9	191835	249.0	317	24.98	95.09	170/33	RHI
10	192400	N/A	N/A	N/A	N/A	N/A	Nose
11	192800	N/A	N/A	N/A	N/A	N/A	RHI
12	193242	78.0	355	24.91	95.67	182/03	Nose
13	193700	288.0	502	24.91	95.86	345/55	Nose
14	194145	279.1	317	24.87	96.15	340/42	RHI
15	194630	140.0	426	24.67	96.18	311/40	Nose
16	194910	167.0	410	24.49	96.03	278/37	RHI
17	195345	90.8	439	24.32	95.81	265/36	PPI
18	195602	344.7	426	24.41	95.69	244/38	Nose
19	195809	345.1	353	24.55	95.69	240/49	Nose
20	200800	355.0	471	24.98	95.71	122/45	RHI
21	201630	20.2	391	25.51	95.75	078/42	PPI
22	202030	243.0	346	25.55	95.99	066/41	PPI
23	202330	223.0	339	25.42	96.22	050/38	Nose
24	202630	193.5	329	25.20	96.35	024/38	Nose
25	202930	161.3	302	24.96	96.35	353/42	Nose
26	203530	112.0	323	24.54	96.05	284/43	RHI
27	204030	90.6	299	24.49	95.76	255/44	Nose
28	204524	90.6	316	24.49	95.76	246/38	PPI

Pic.	Time	Hdg.	RF	Lat.	Lon.	WD/WS	Scope
29	204752	90.6	361	24.49	95.76	248/42	PPI
30	205035	92.0	387	24.49	95.76	180/27	PPI
31	211600	163.3	403	24.84	94.83	167/25	PPI
32	212400	272.3	359	24.79	95.18	177/34	PPI
33	213030	314.5	315	25.19	95.51	124.40	Nose
34	213430	271.0	332	25.30	95.83	091/48	RHI
35	213800	268.7	317	25.27	96.18	049/48	PPI
36	214130	220.1	321	25.05	96.39	013/45	RHI
37	214530	258.7	376	24.91	96.66	351/37	PPI
38	214900	213.0	372	24.81	96.86	342/30	PPI
39	215230	140.1	353	24.58	96.70	322/34	Nose
40	215800	104.7	334	24.29	96.34	291/35	Nose
41	221100	54.7	322	24.69	95.42	183/38	RHI
42	221400	86.8	376	24.75	95.21	163/28	PPI
43	221730	330.3	344	24.98	95.29	142/30	PPI
44	222230	304.4	365	25.30	95.39	114/32	PPI
45	222530	314.9	349	25.38	95.61	092/35	Nose
46	222800	344.2	364	25.54	95.72	093/31	PPI
47	223030	253.9	362	25.54	95.92	074/37	Nose
48	223800	225.7	370	25.50	96.48	041/32	PPI
49	224300	204.5	359	25.18	96.73	024/36	PPI
50	224530	189.2	337	24.99	96.78	005/38	Nose
51	225200	77.0	313	24.78	96.41	003/58	Nose
52	225500	78.1	331	24.75	96.23	002/58	Nose
53	230500	83.0	439	24.80	95.57	155/34	PPI
54	230730	76.3	439	24.87	95.42	148/35	PPI
55	230930	91.4	439	24.89	95.31	148/34	PPI
56*	010811	89.4	1534	26.04	85.72	274/21	PPI

* Tilt was set at $+2\frac{1}{2}^{\circ}$

Comments

1. On the tail radar, there were oscillations in the range marks which are evident on the pictures. I consulted a technician and was told that it had a some sort of power source problem.
2. For taking the pictures the range and tilt were:
PPI ; Range = 100 miles , Tilt = $+5^{\circ}$
Tail ; Range = 30 miles , Tilt = $\pm 0^{\circ}$
Nose ; Range = 100 miles , Tilt = Am not sure because the navigator had control of this scope.
3. With regard to the camera. For taking the pictures I had it set on Bulb with the F-stop at 22. I tried to keep the shutter open for one complete revolution of the scope. The time taken for this was:

PPI = 18 sec.

RHI = 9 sec.

Nose = 9 sec.

4. ~~For~~ With regard to the flight; at ~ 190430 the Pilots nose radar went out, so the navigator took control of the LF radar until ~ 204500 , when they had got the Pilots nose radar scope repaired.
5. During the flight the Computerized data updating system went down four times. The times of the outages were:

1. ~~192400~~ Down 192400 Up ~ 193200

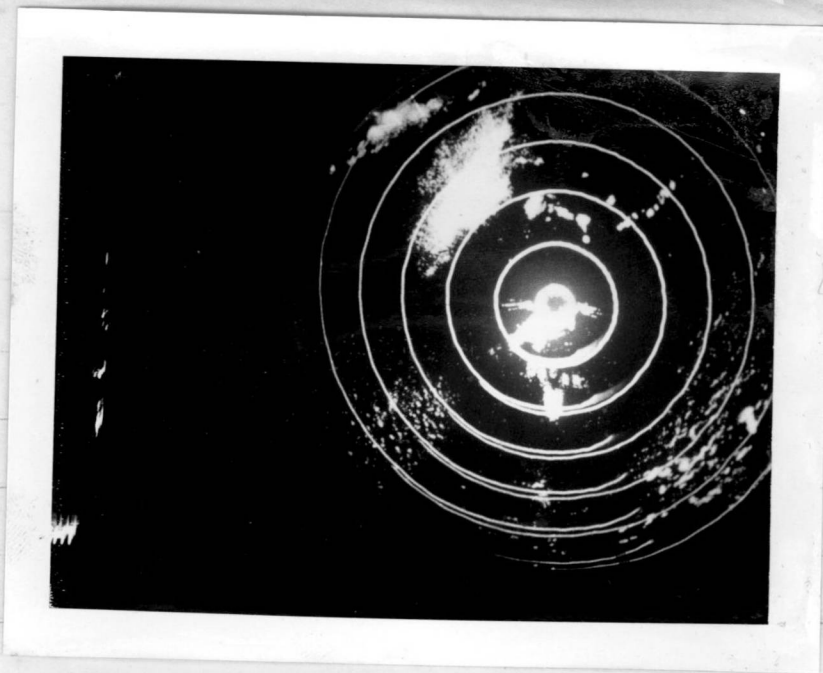
2. Down 201155 Up 201545

3. Down 220558 Up 220955

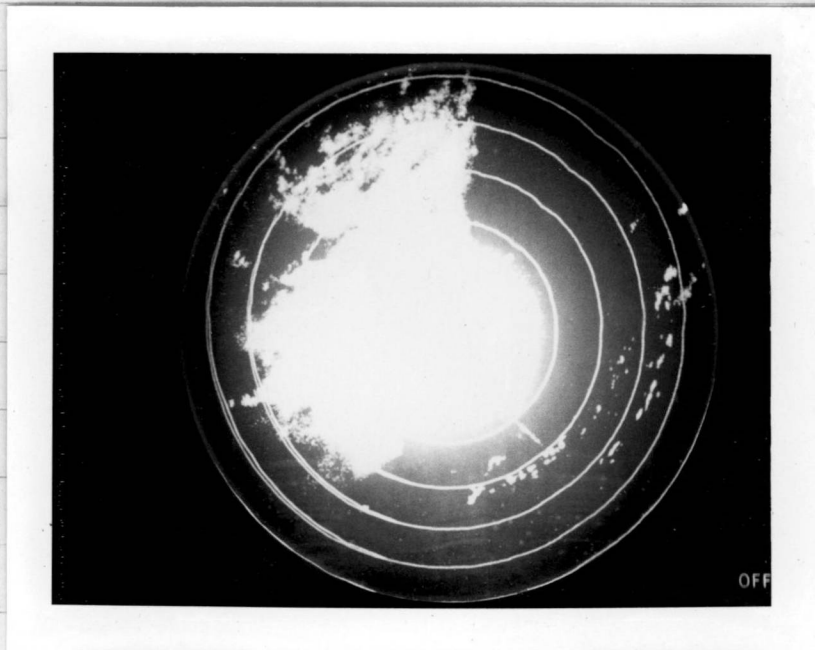
4. Down 223324 Up 223640

During these times no pictures were taking.

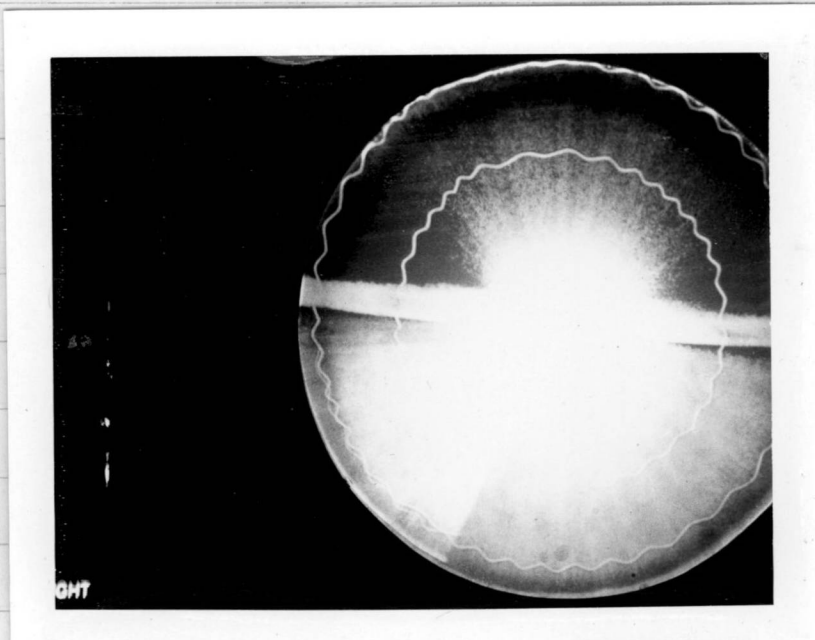
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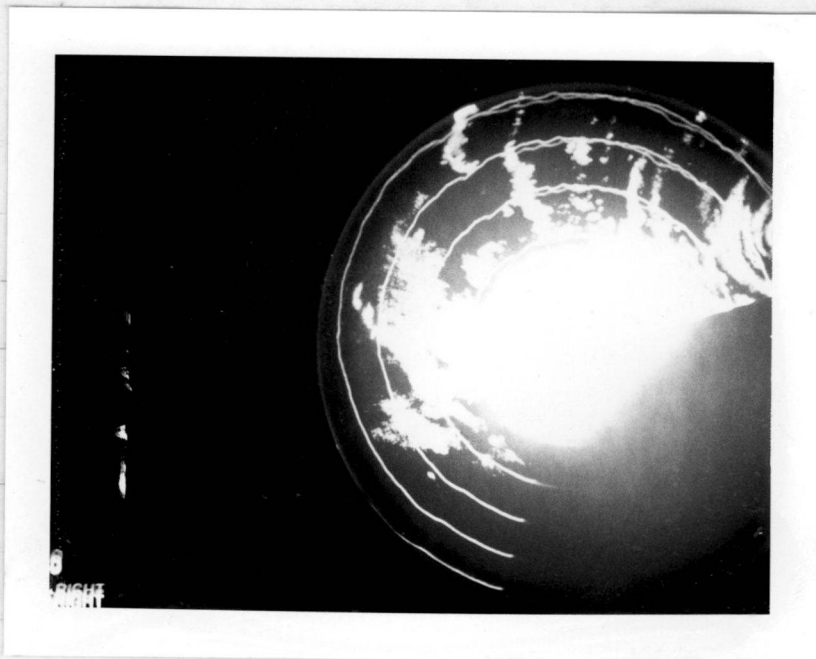
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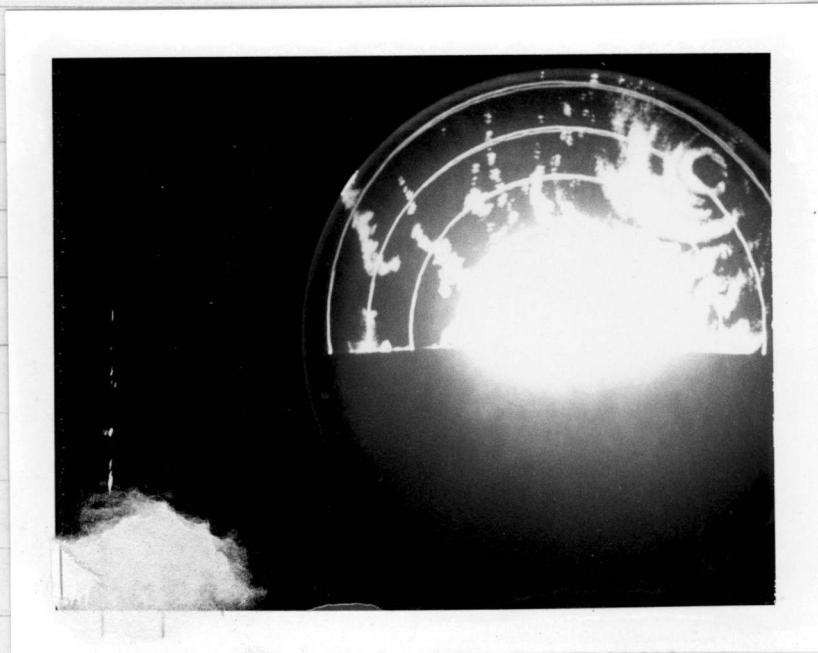
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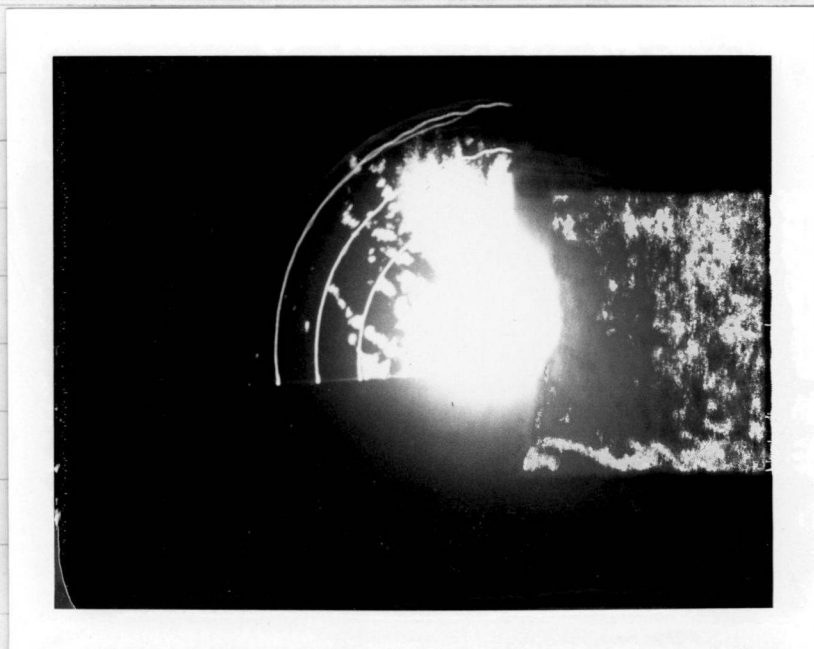
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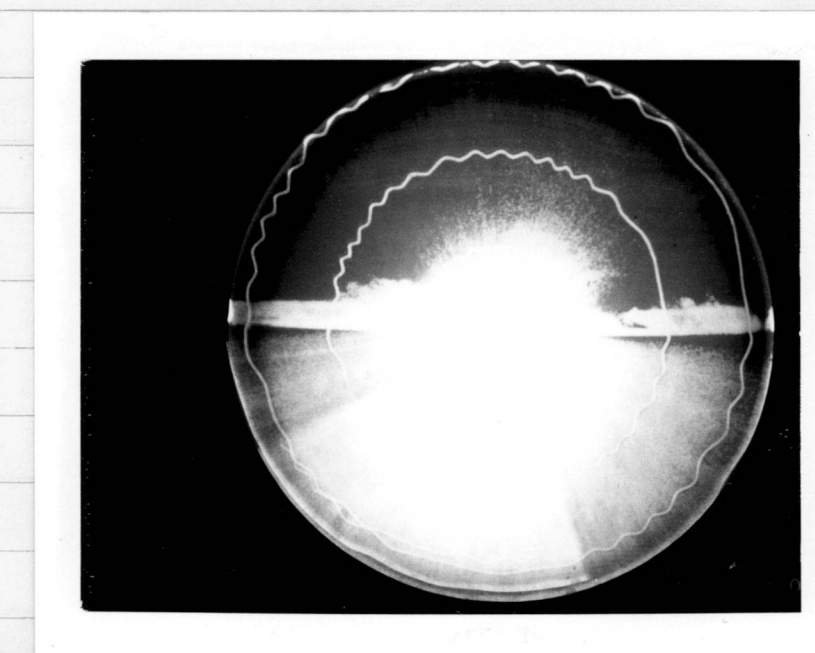
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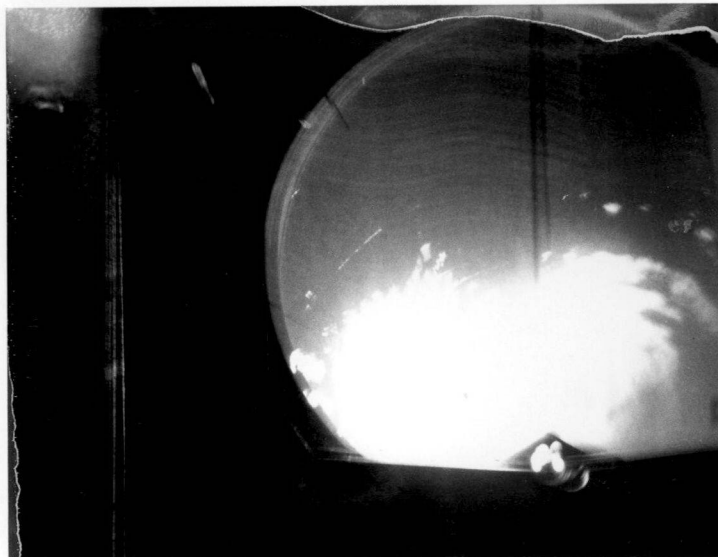
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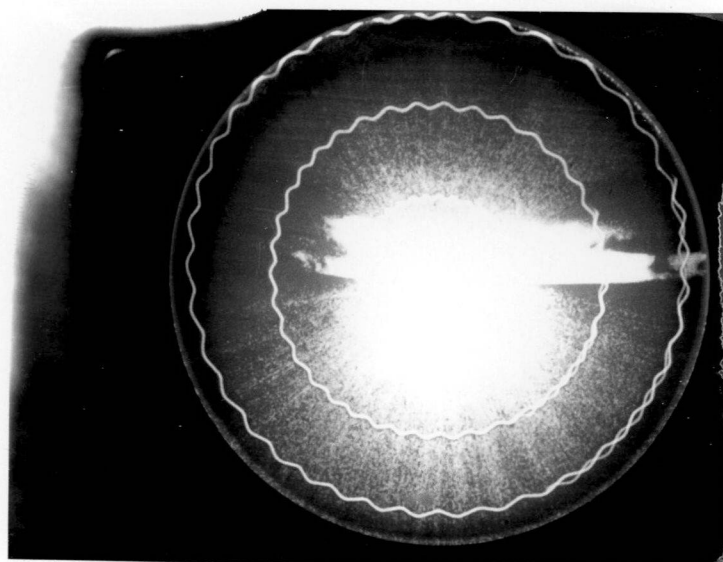
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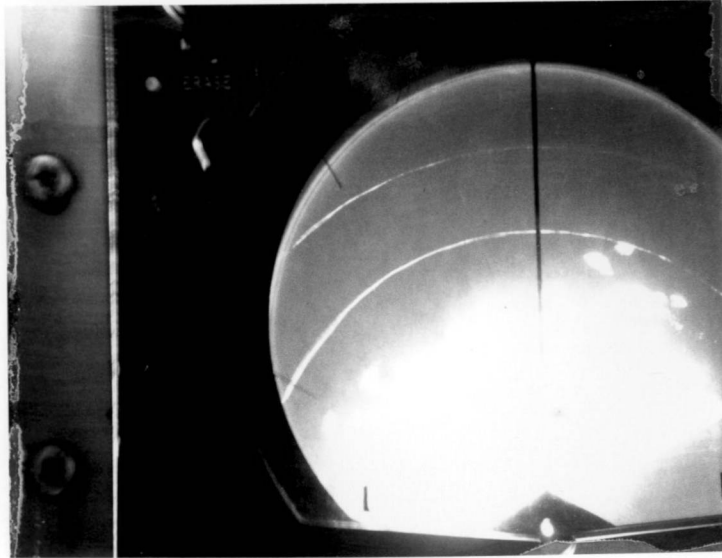
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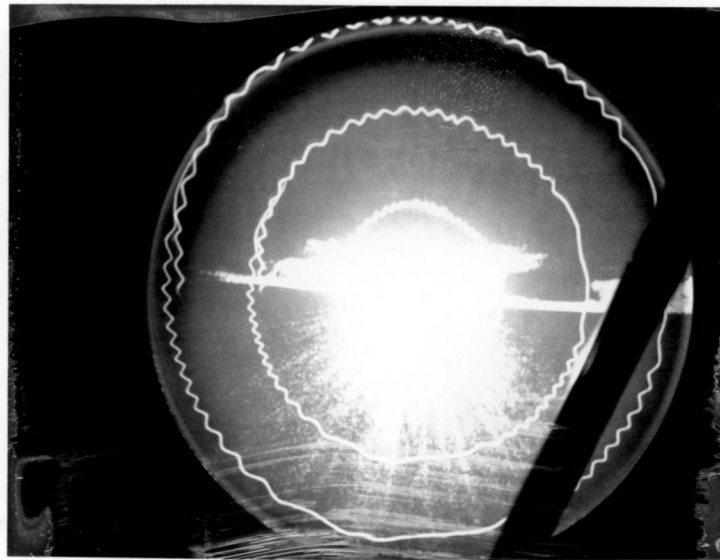
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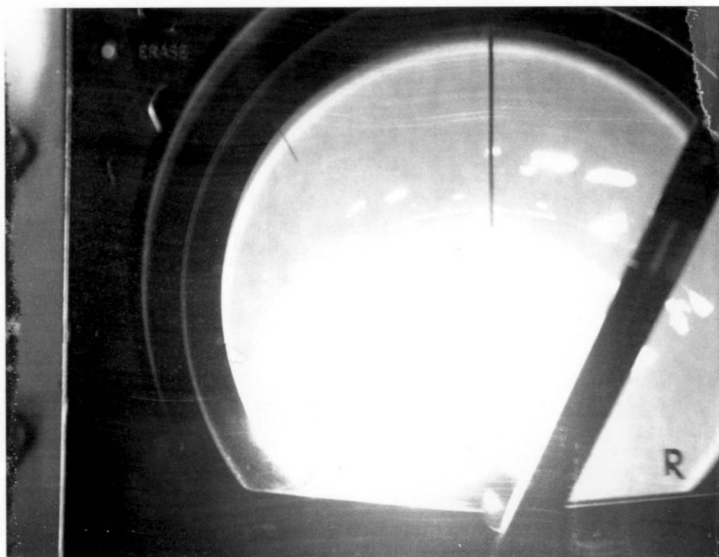
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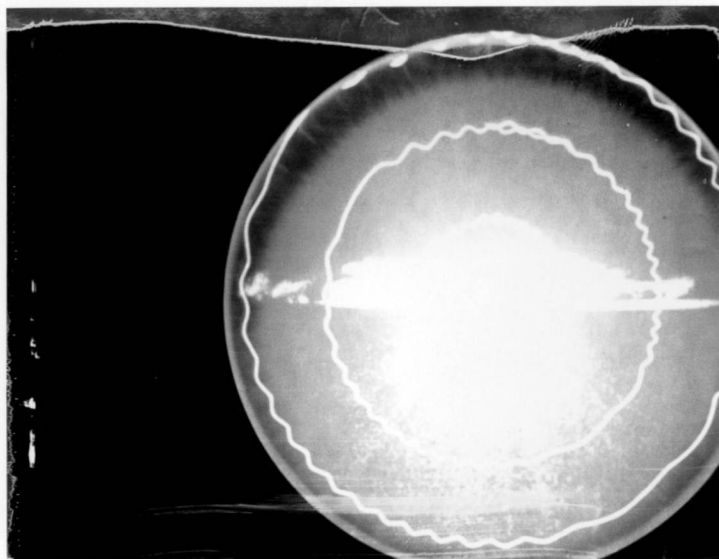
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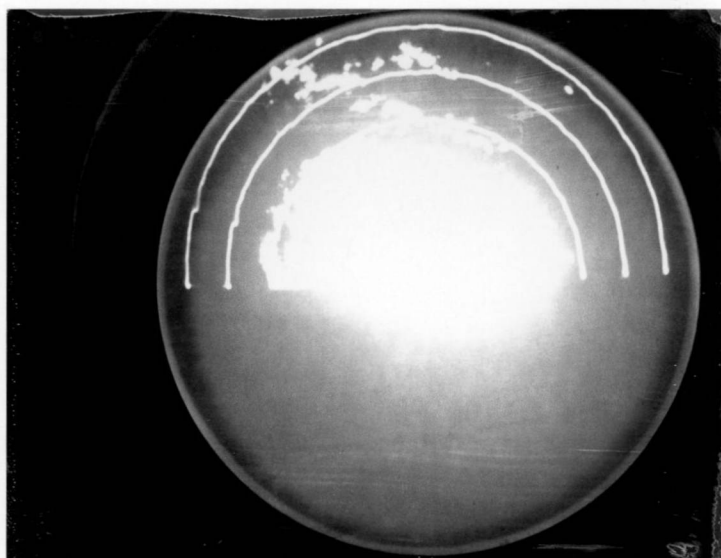
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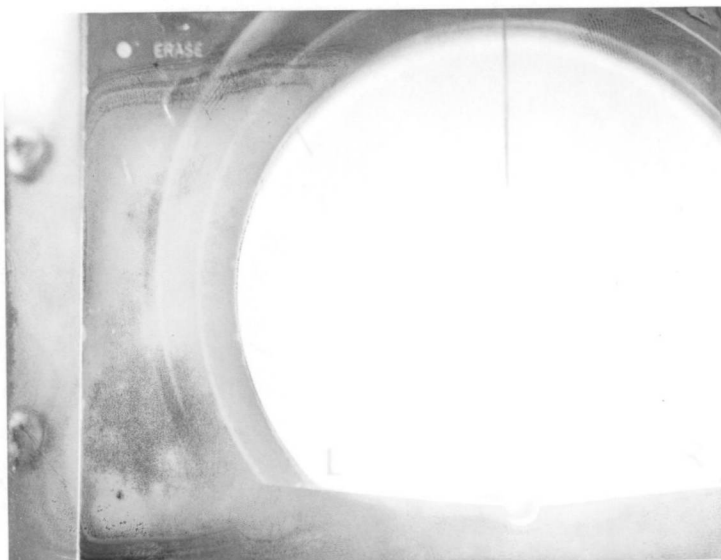
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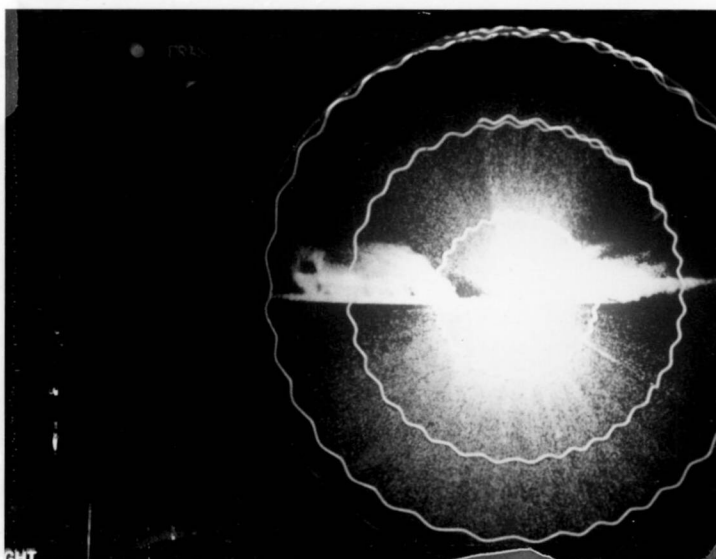
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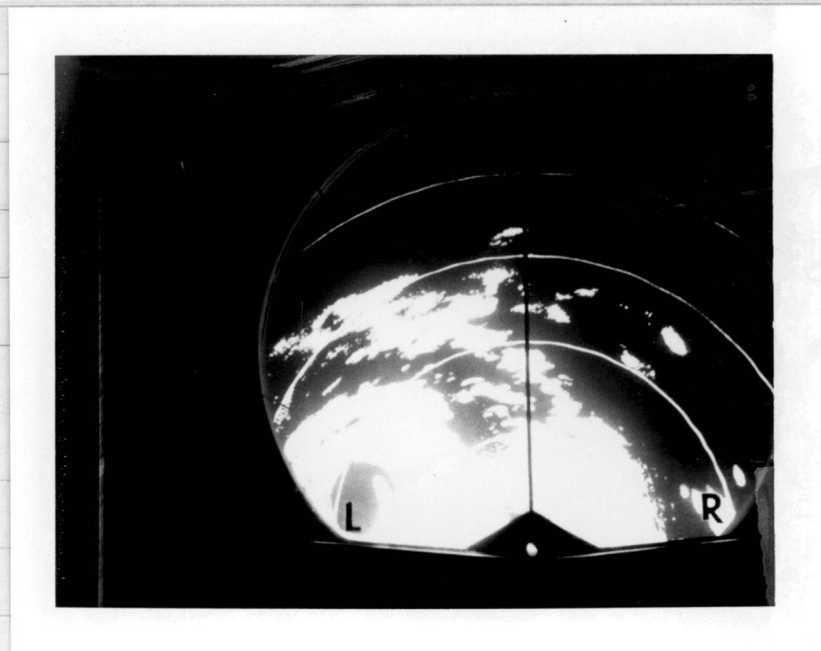
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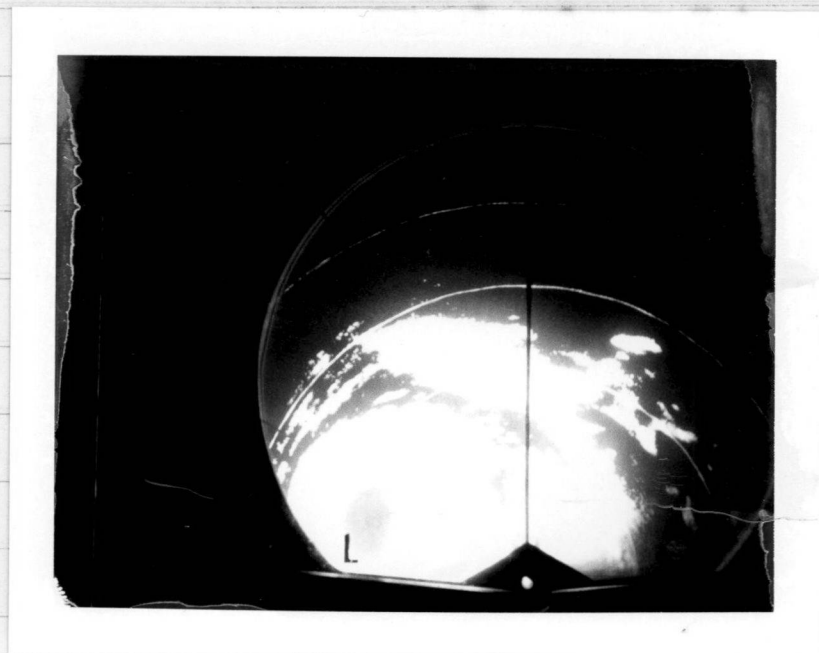
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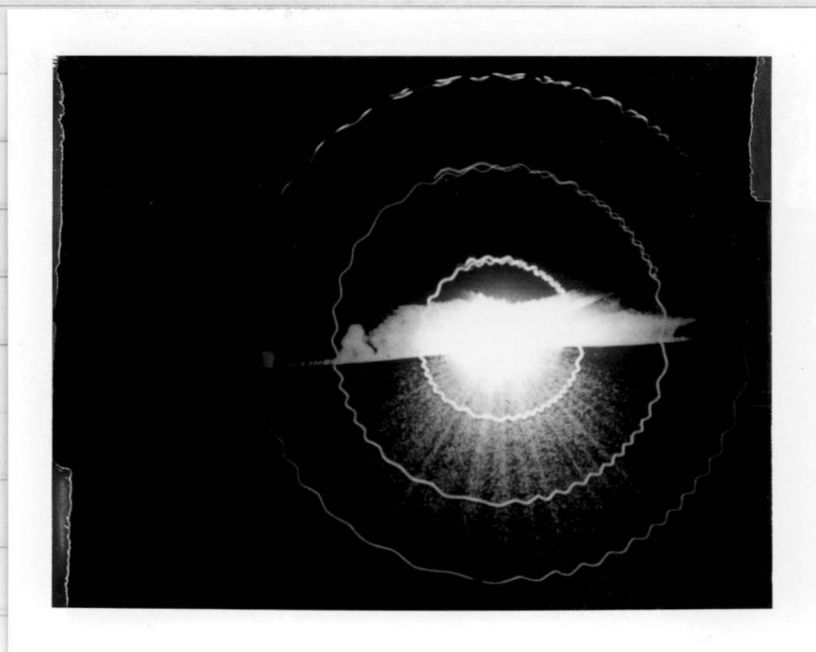
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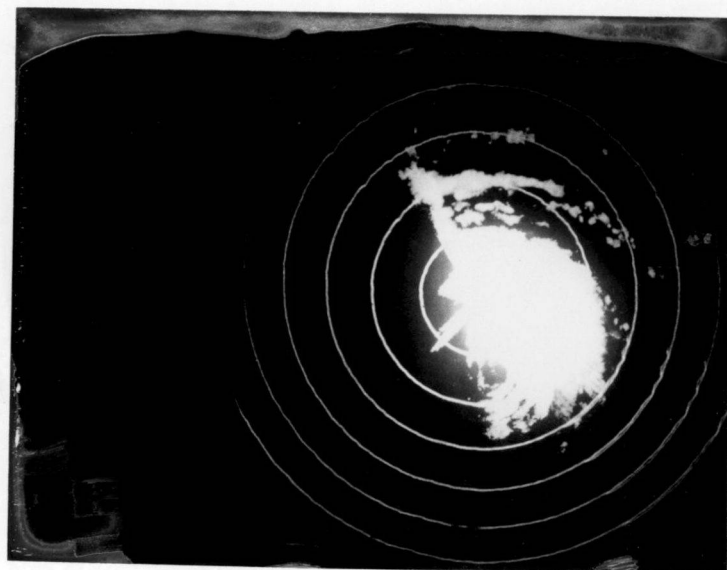
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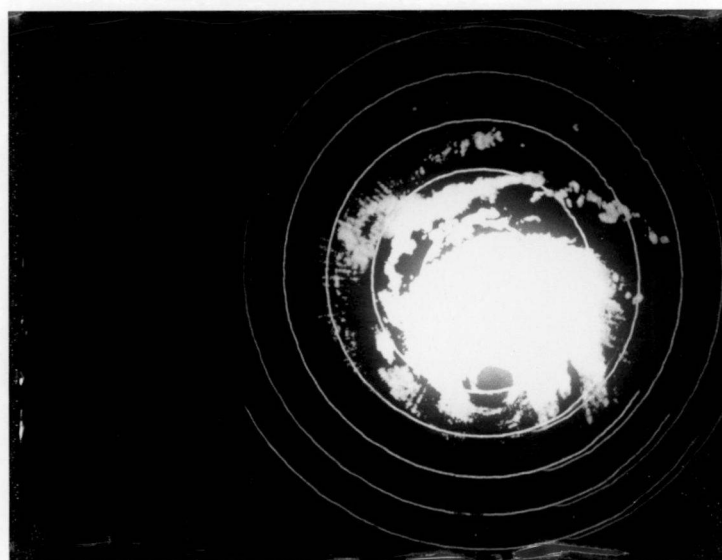
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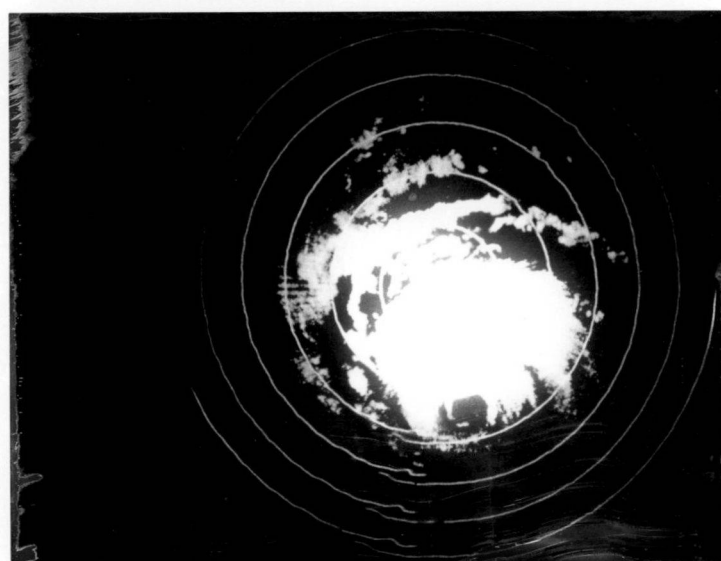
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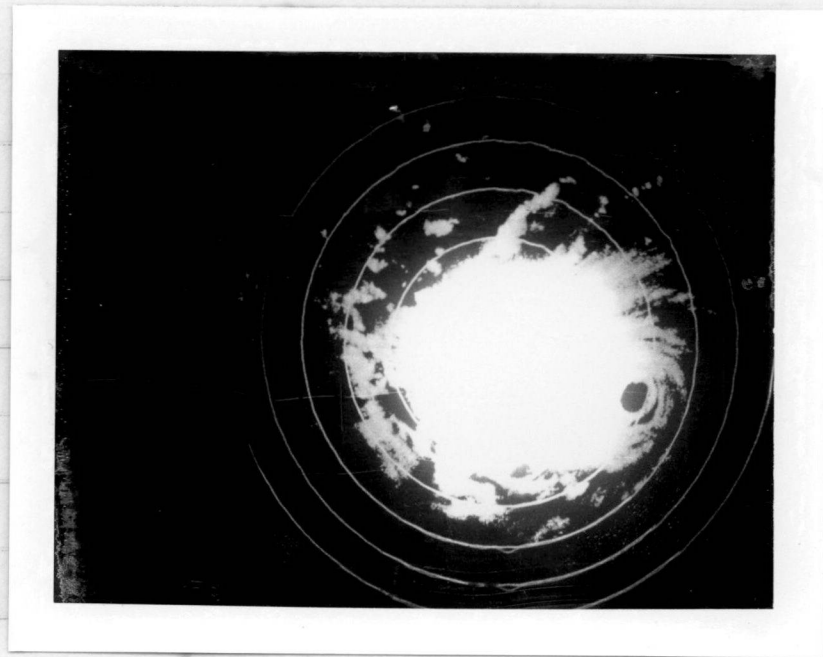
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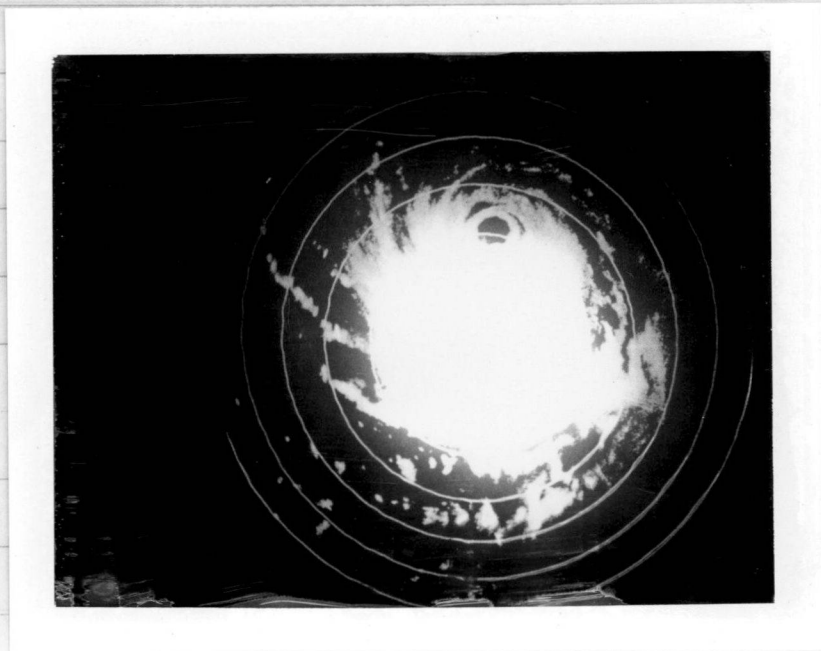
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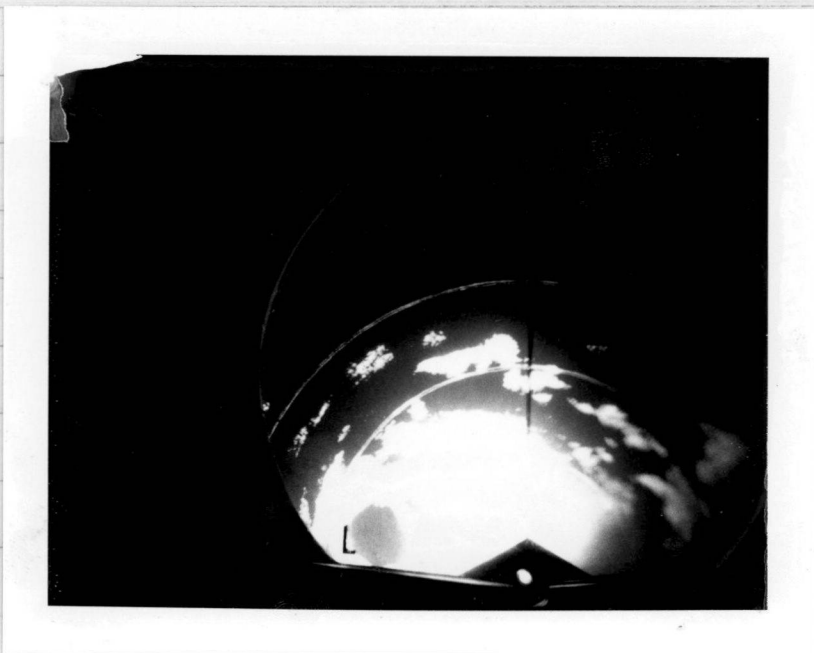
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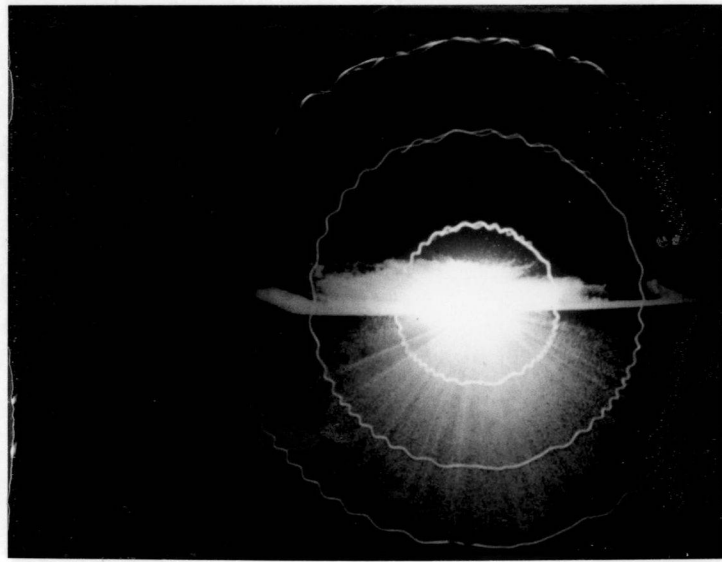
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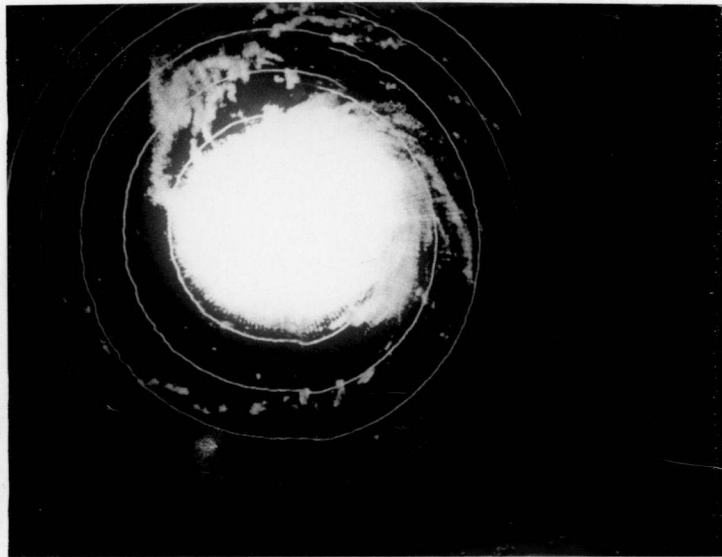
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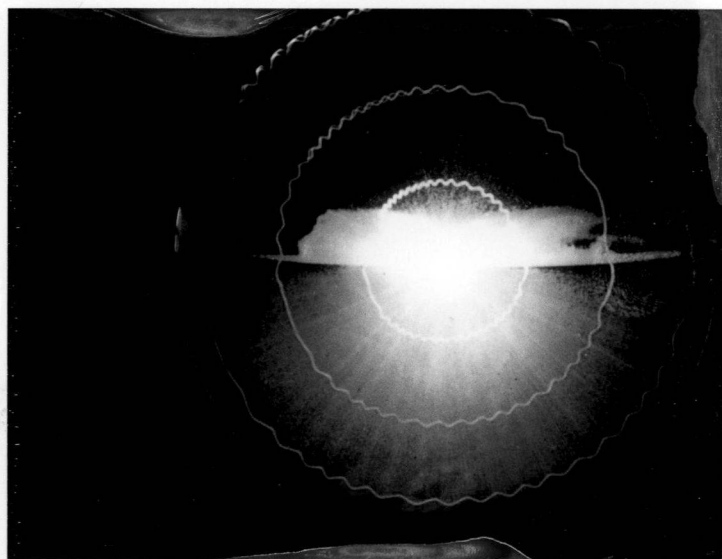
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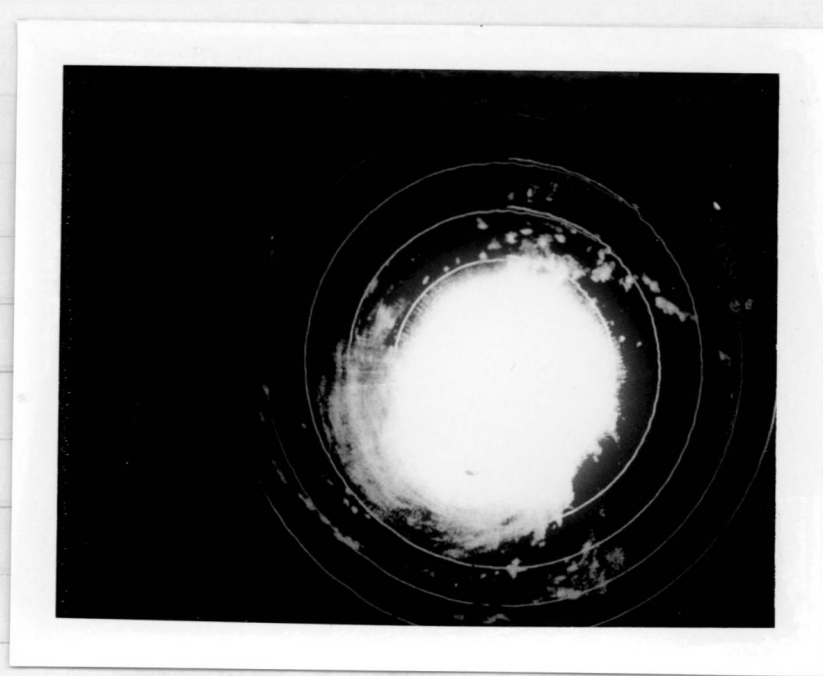
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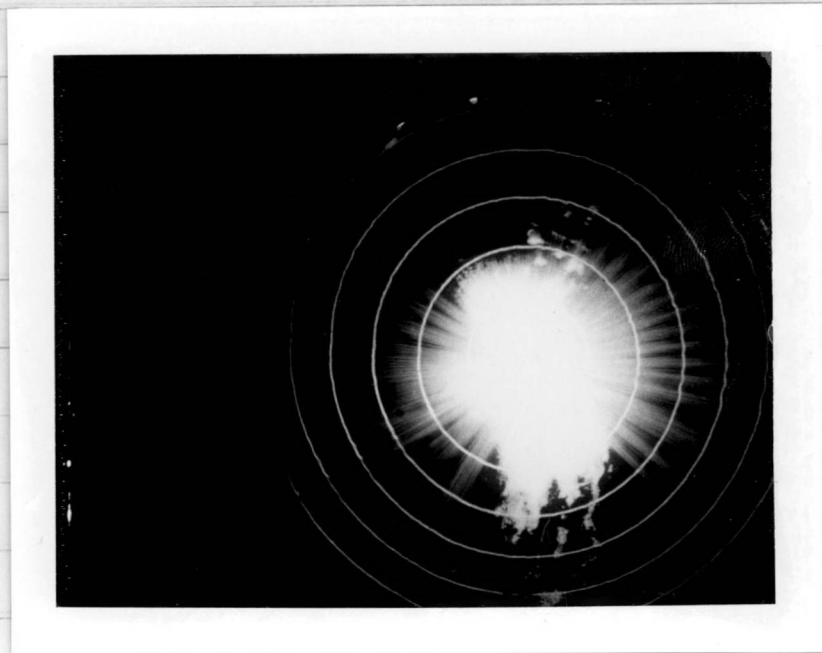
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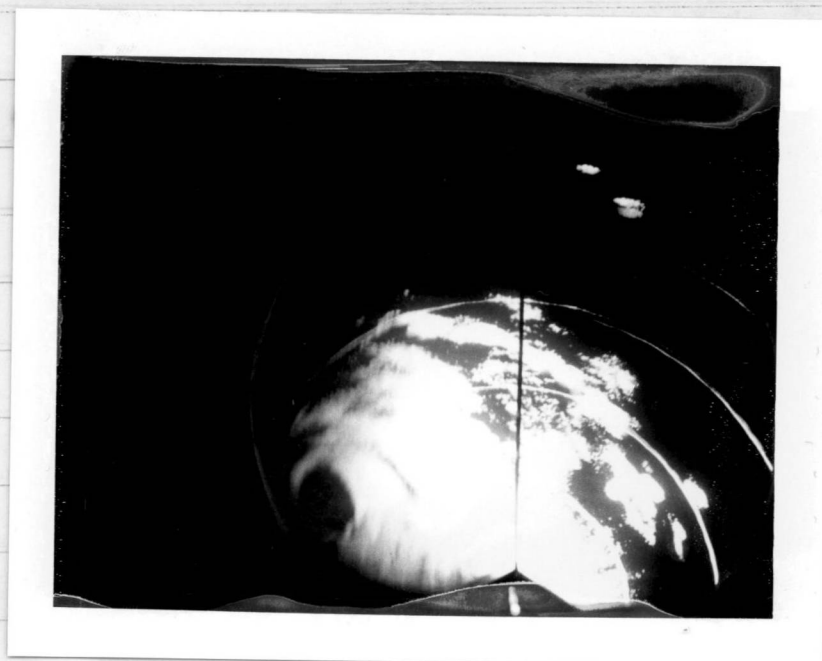
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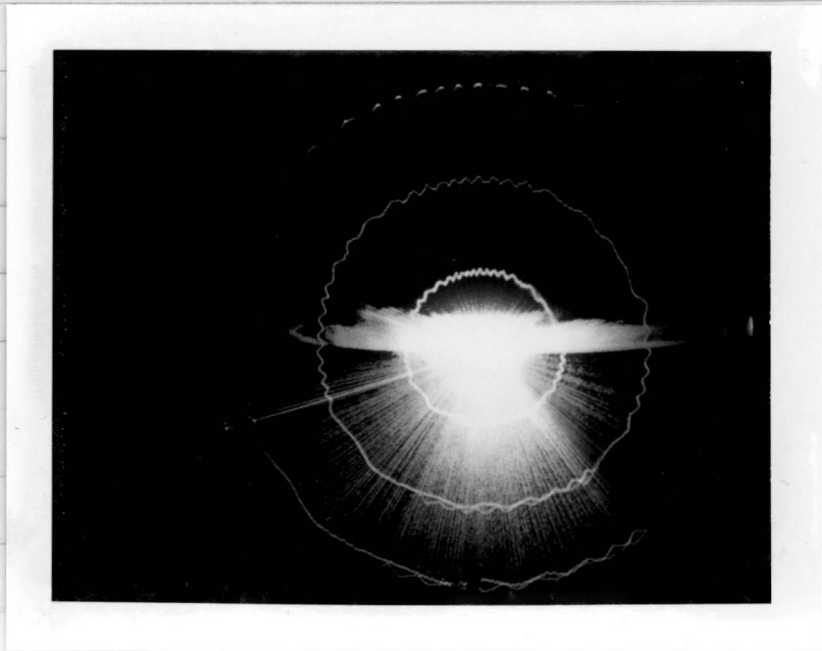
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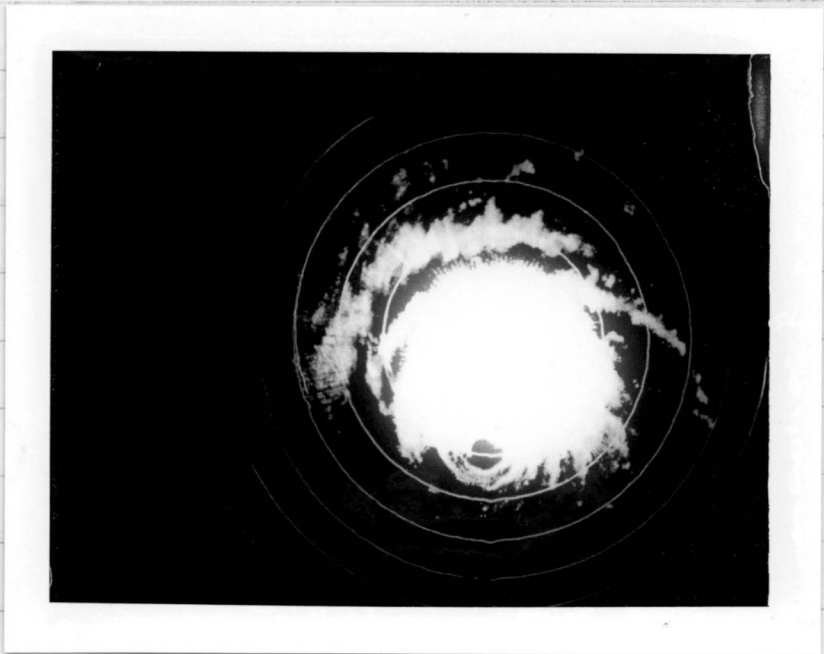
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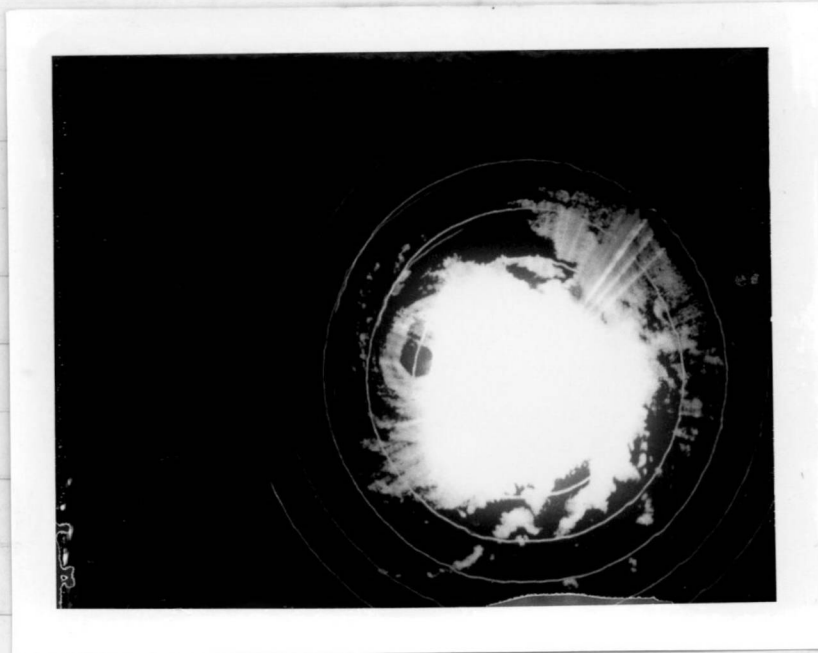
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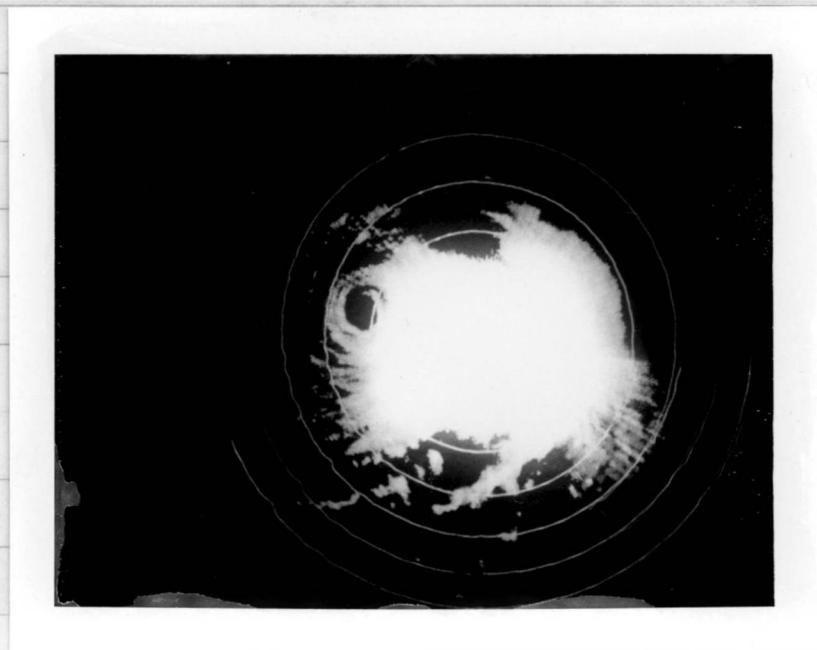
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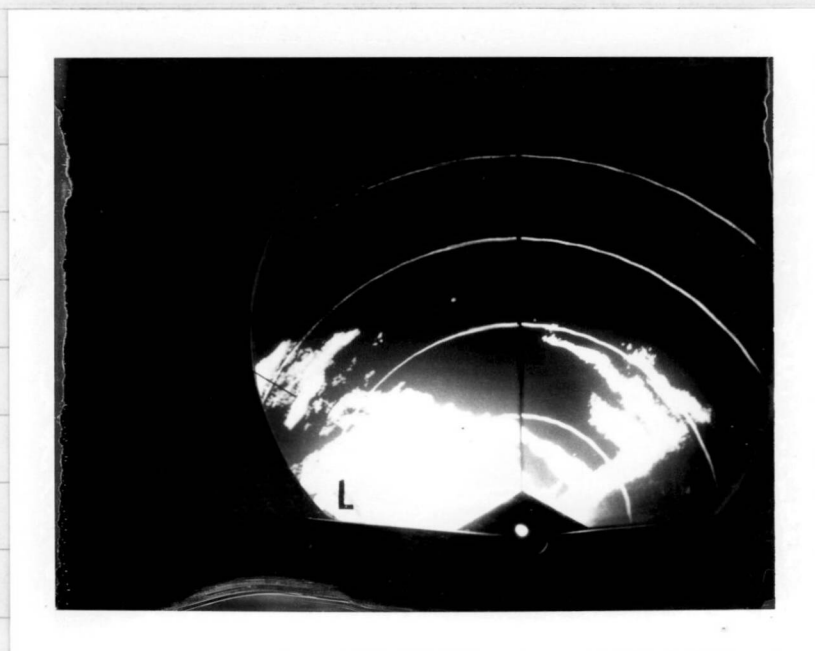
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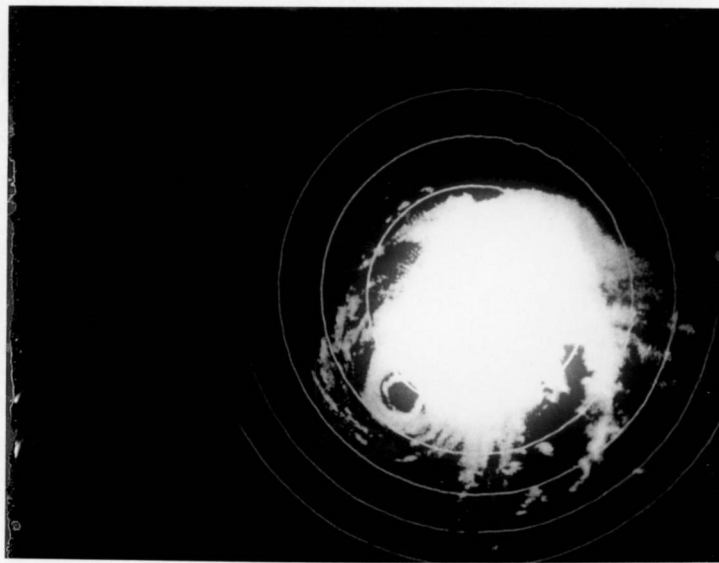
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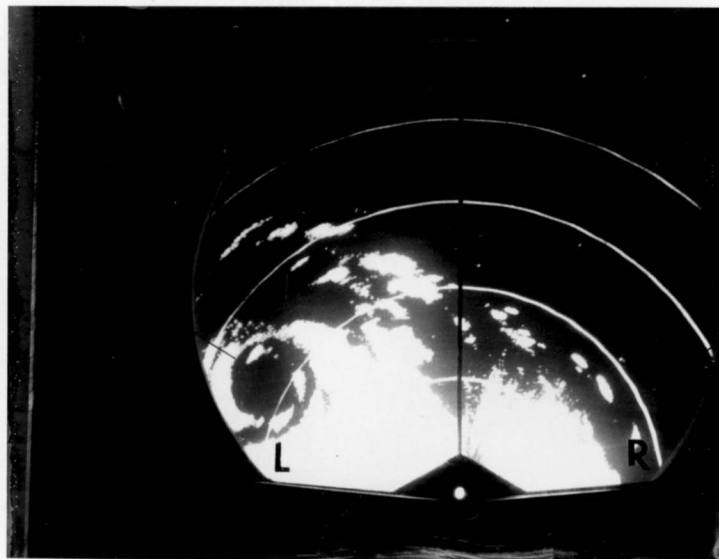
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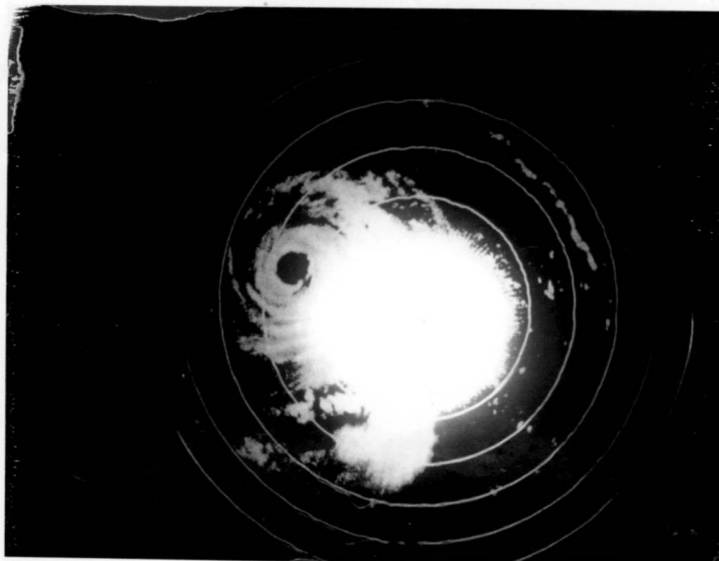
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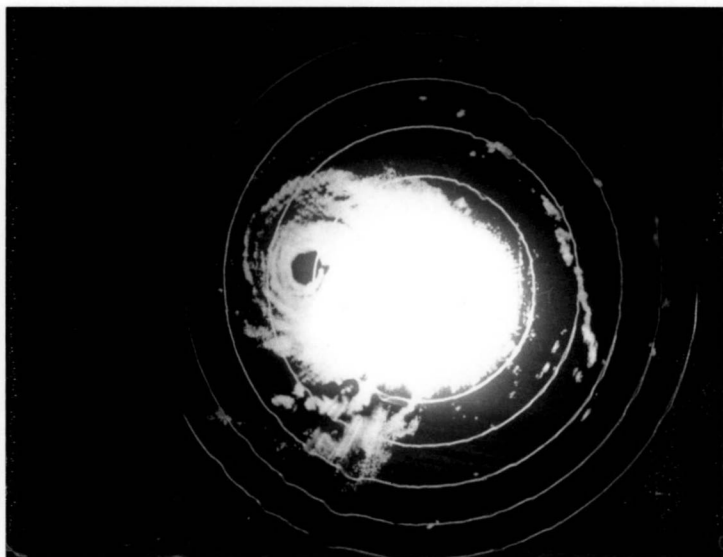
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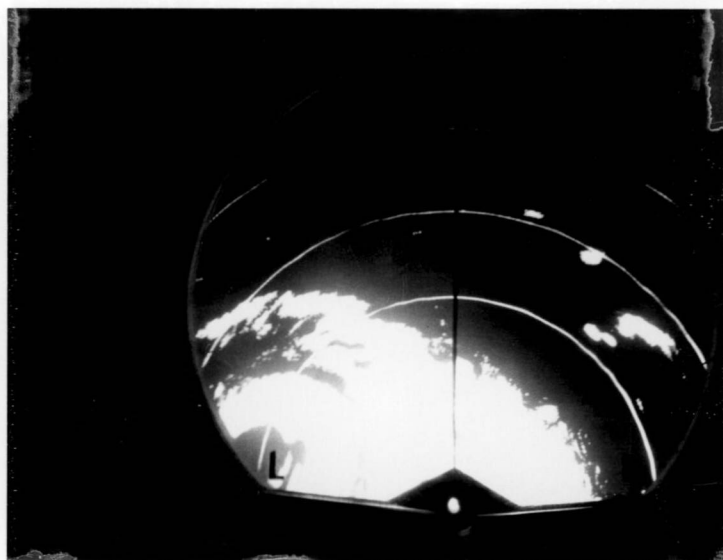
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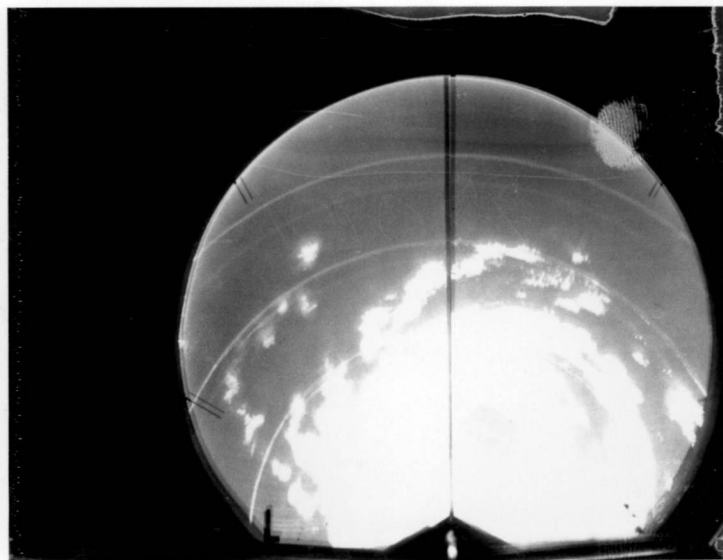
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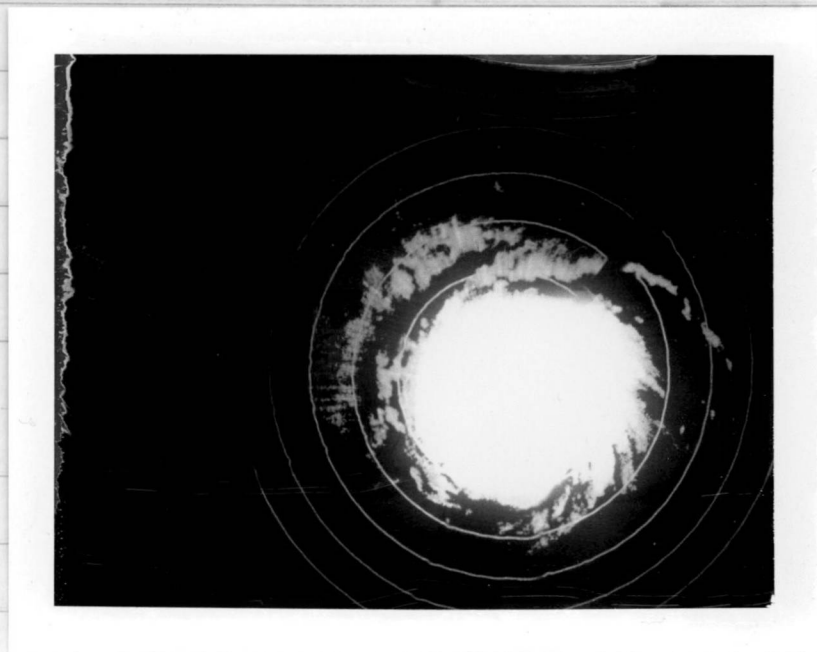
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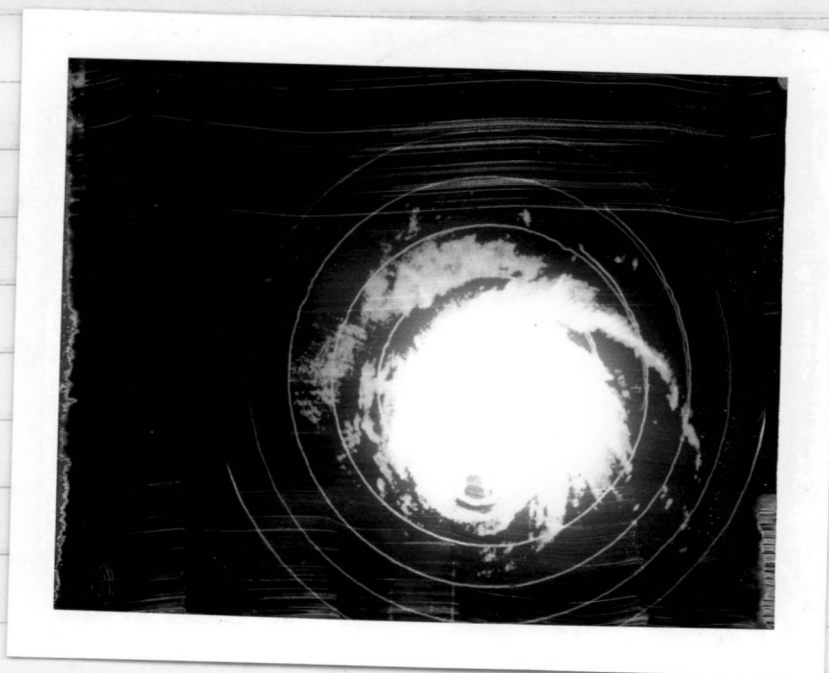
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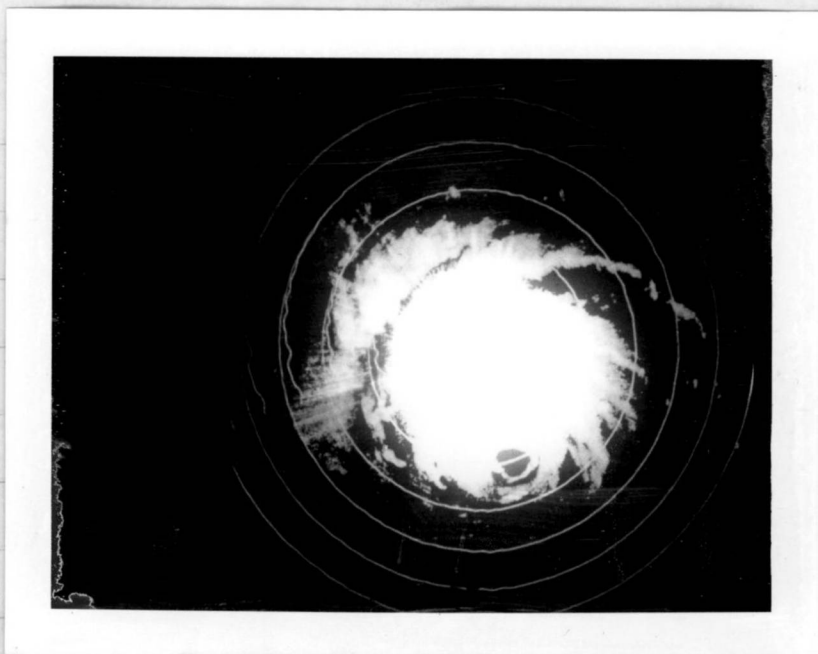
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