

Appendix J

Operational Checklists

790903I

19790903I-LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 790903I

AIRCRAFT 43

FLT 1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	JORG	Gust Probe	
Cloud Physics	Powell	Omega Sonde	
AXBT		Sys Eng	Dugranvut
Hot Film		Data Tech	BRUNSON
Radar	Stewart/Fiorino	El Tech	Fennel
Flt DIR/MET	Rossby	Other	

Time Off 2230Z Location Pensacola Time On 0645 Location MHA

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
9/3	16Z	26.8	79.7	8/4	00Z	27.96	80.26	NA
8/3	2025Z	27°25'	80°38'		03Z	28°28'	80°34'	NA
					06Z	28°50'	80°15'	NA

C. Mission Briefing

Storm over land. Fly race track pattern to fix center by radar and winds. Must fly over ocean

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓	✓	✓	
Radar	✓	✓	✓	Yes
Cloud Physics	✓	✓	✓	Yes
Data Sys	✓	✓	✓	Yes
Omega Sondes	—	—	—	
AXBT	—	—	—	
Gust Probe	—	—	—	
Hot Film	—	—	—	
Photography	✓	only to dusk		

REMARKS

Cameras ON 2 pictures per second (downward looking)
 ON 2 hours of data due to sunset. Flew at 10,000 ft
 til ~ 0120 Z descended to 5,000 ft for 2 passes
 then climbed to 10 K ft again at 0308 to get better
 radar presentation. Flew tracks parallel to the coast. Never
 made any penetrations of the eye, but got close a couple of times.
 Flew along and in rainbands and eyewall. Approx. 120 N.mi
 traverses (60 N.mi legs on either side of eye). Data systems
 worked well (Radar, Cloud Physics, RAMS) with the exception of
 the FSSP Knollenburg probe that went out just after takeoff.

E. Proposed Flight Patterns

along coast as close to eye as possible at 10k ft
and 5k ft with a pattern at 1500 ft possible



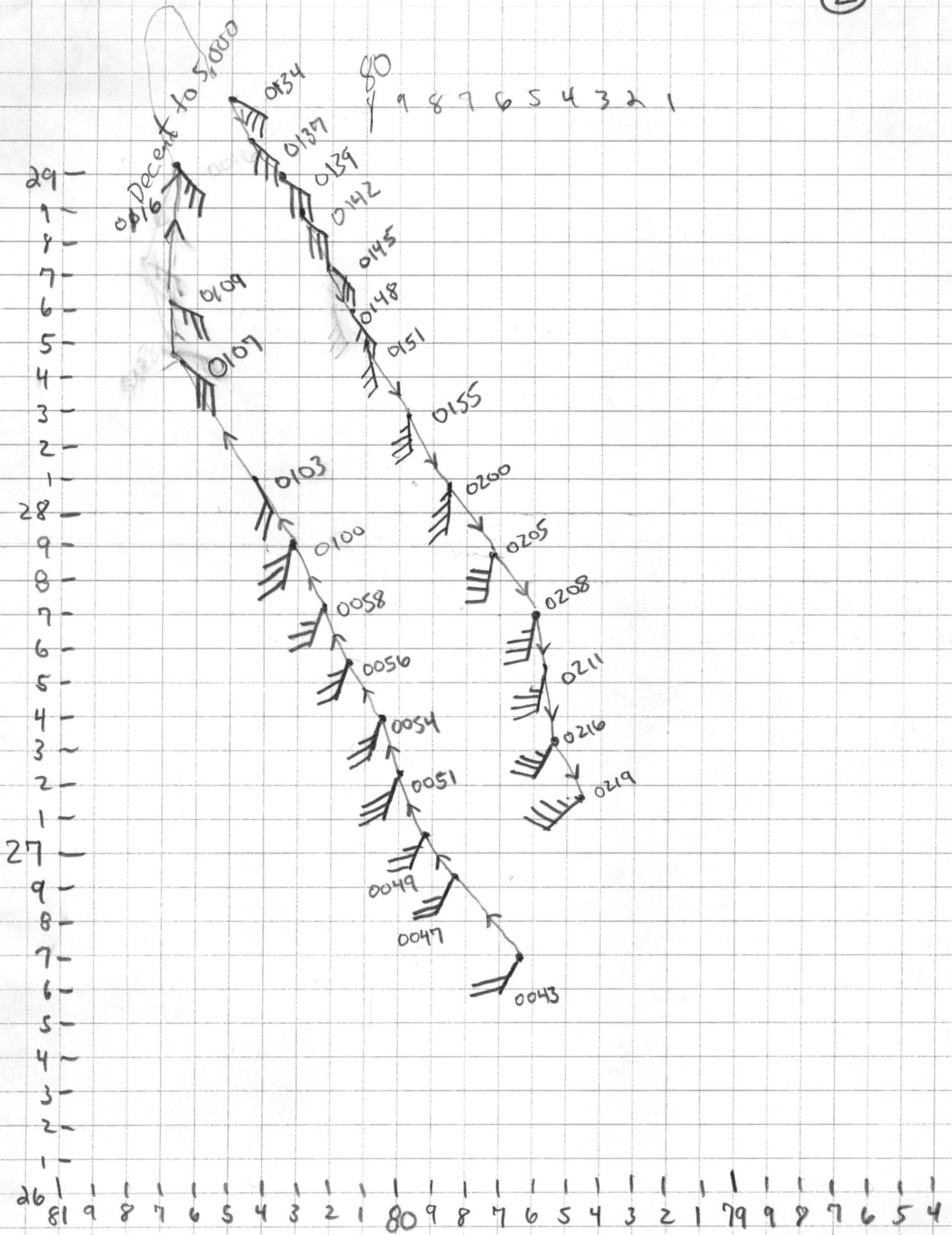
Position fixes of eye by radar

F. Actual Flight Patterns

As proposed, no 1500 ft passes

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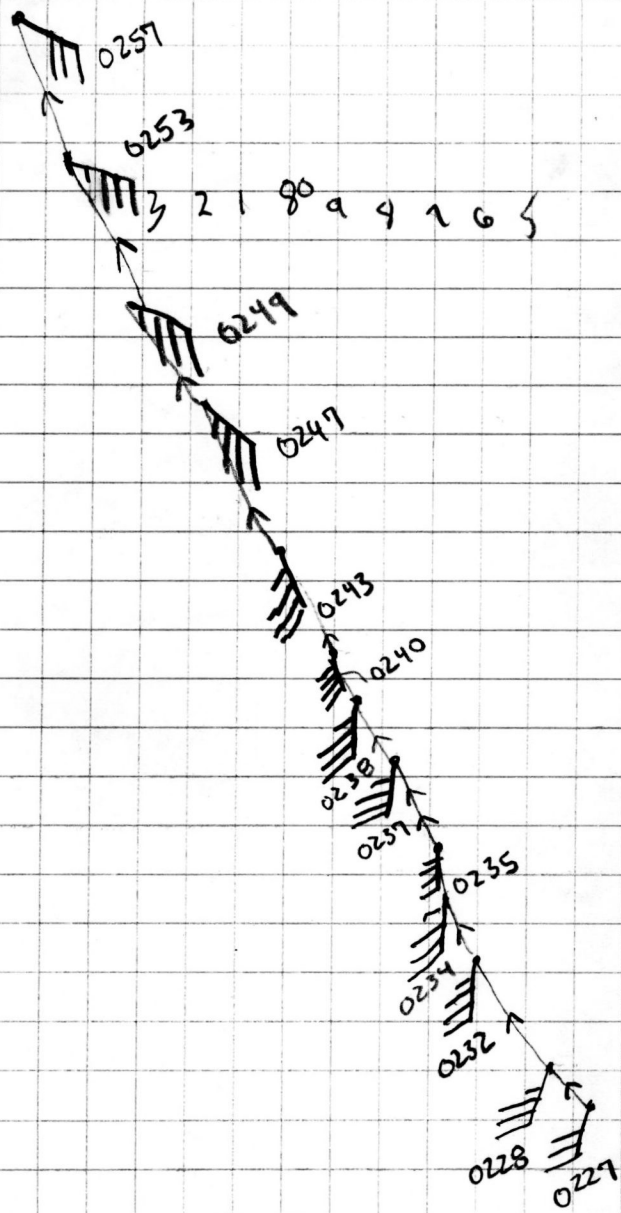
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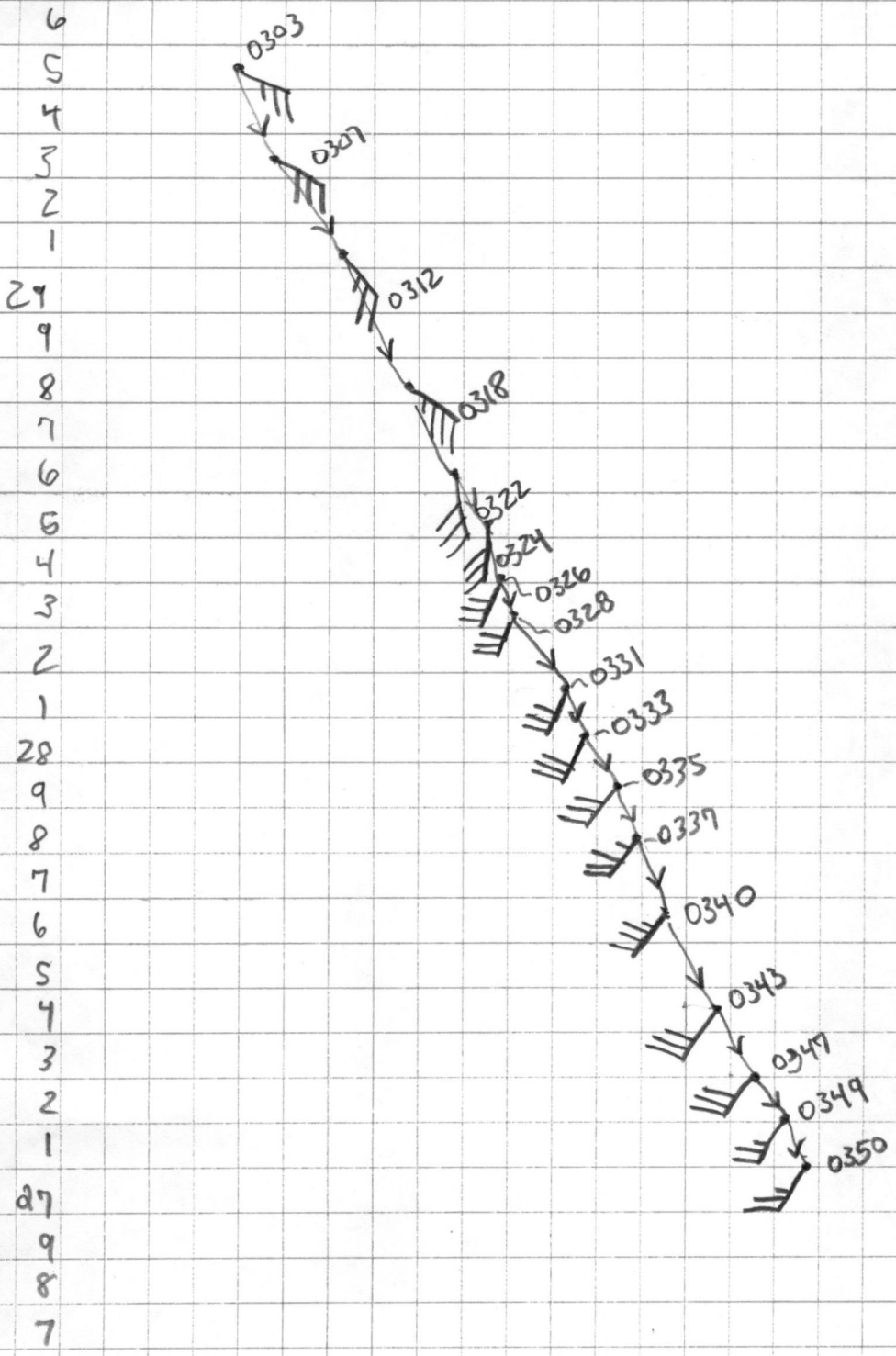


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790903II DAVID 5,000 ft

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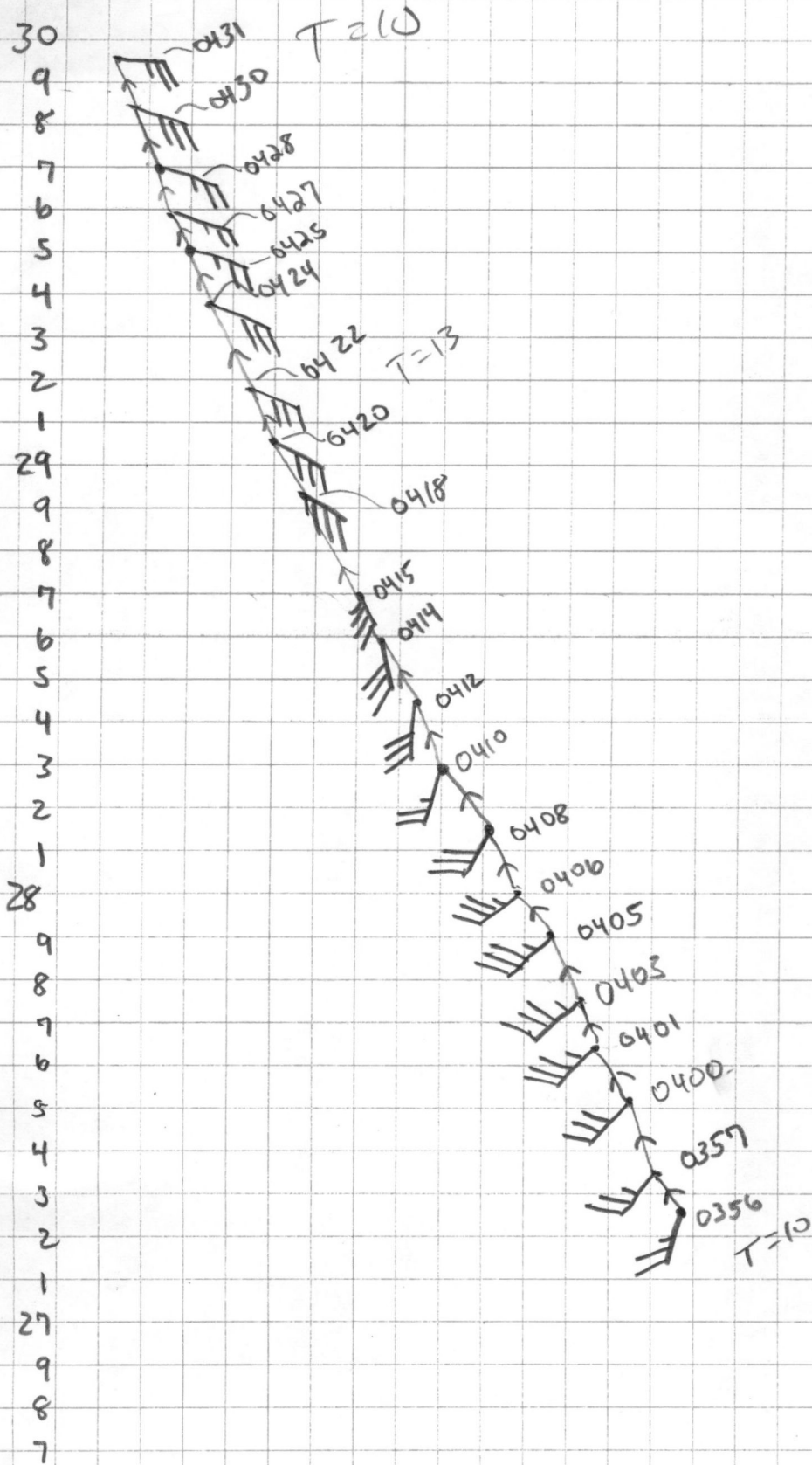
10 K ft



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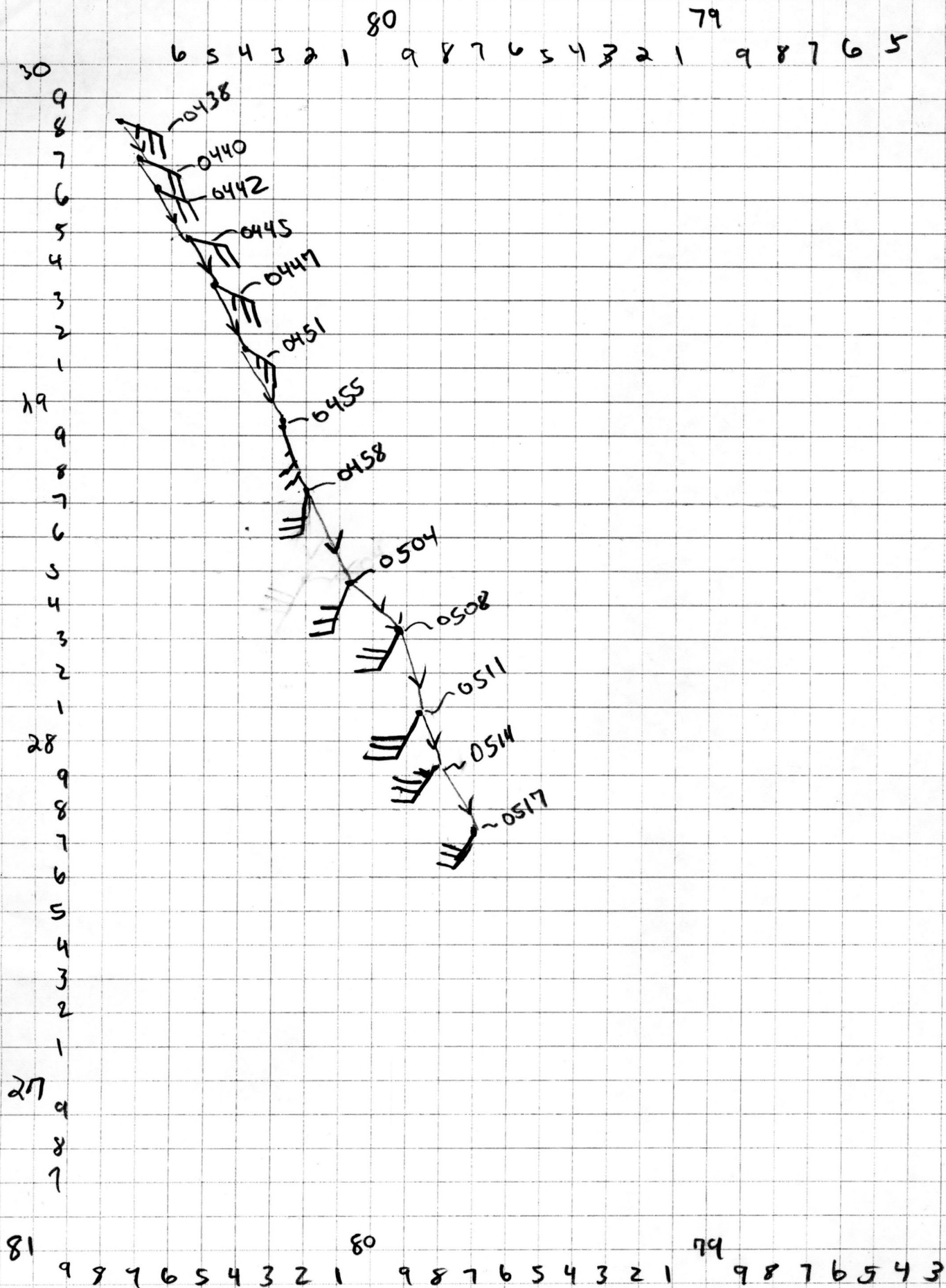
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