

M171 METABOLIC ACTIVITY

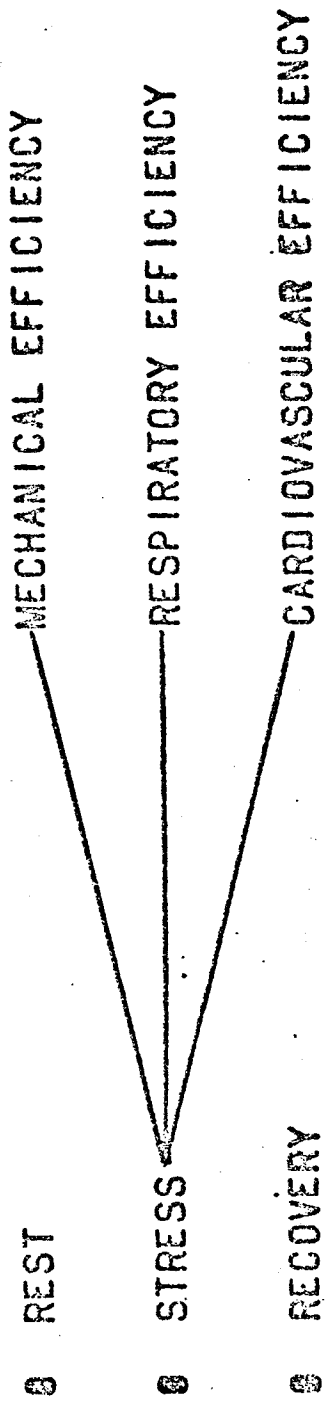
STATUS OF DATA REDUCTION

0 100% OF EXPERIMENT DATA COLLECTED

0 80% OF DATA COLLECTED HAS BEEN VERIFIED

0 50% OF DATA COLLECTED HAS BEEN ANALYZED
AND INTERPRETED.

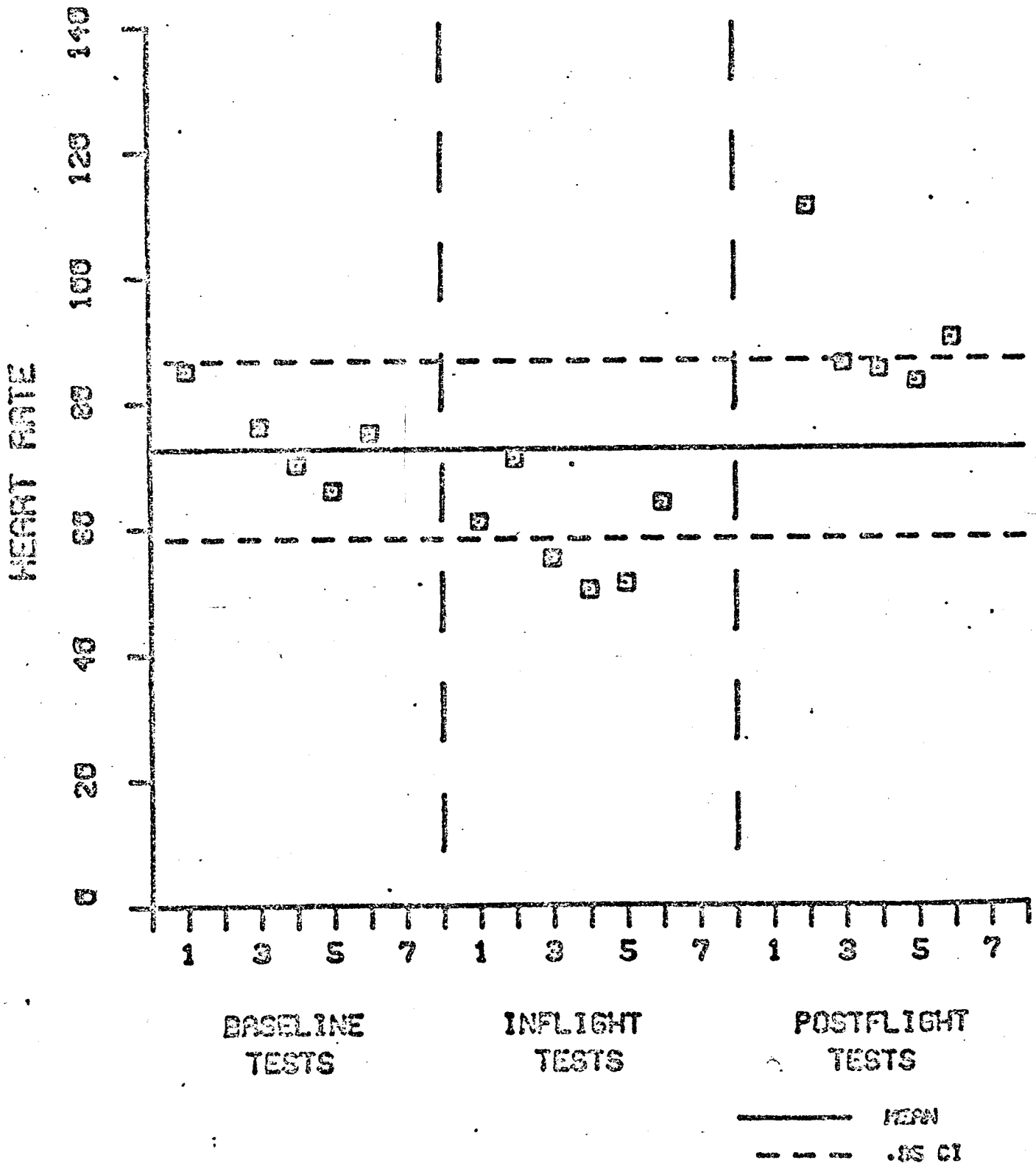
M171 DATA EVALUATION



SKYLAB 2 M171 SUMMARY

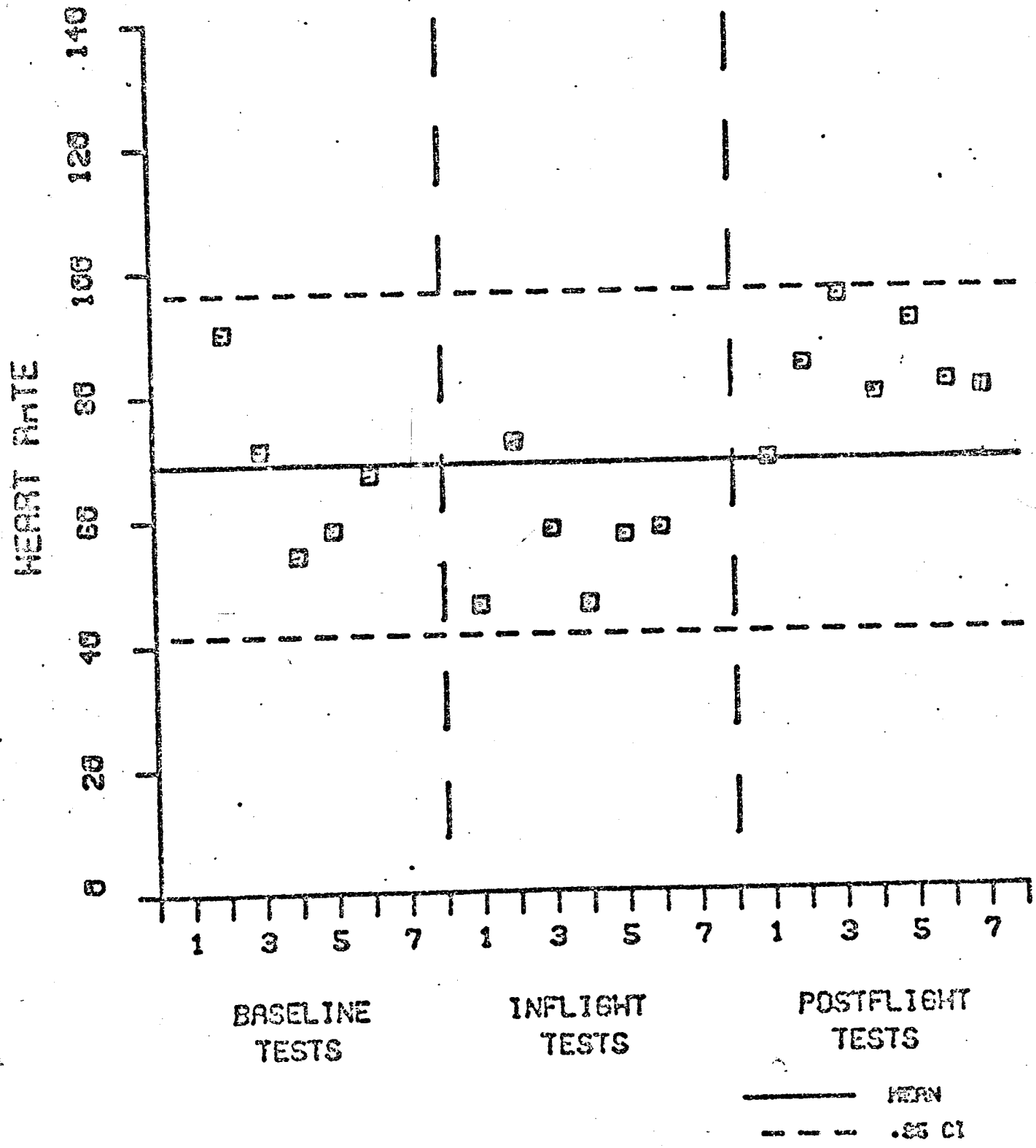
SCIENTIST PILOT

REST



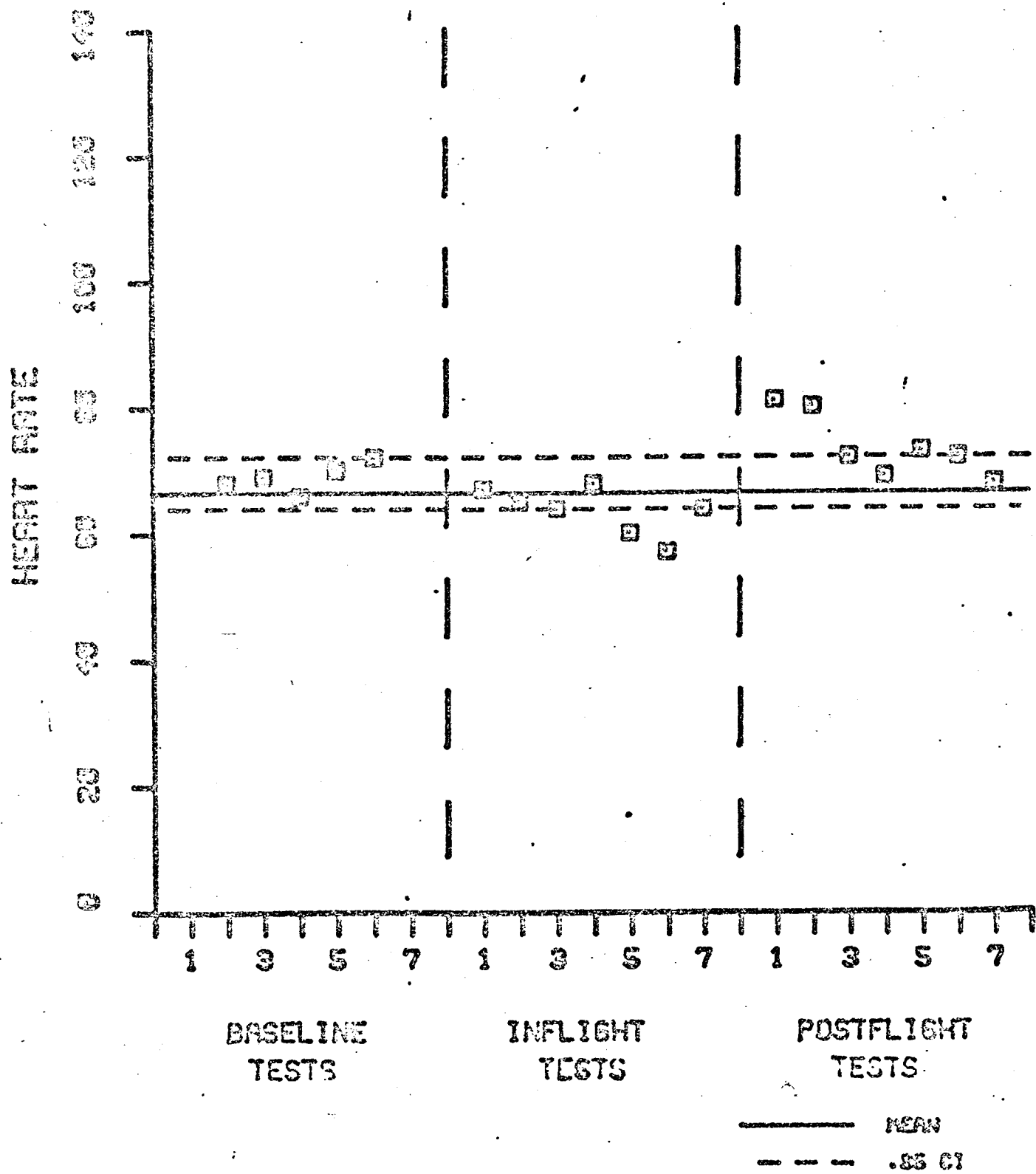
SKYLAB 2 M171 SUMMARY

COMMANDER
REST



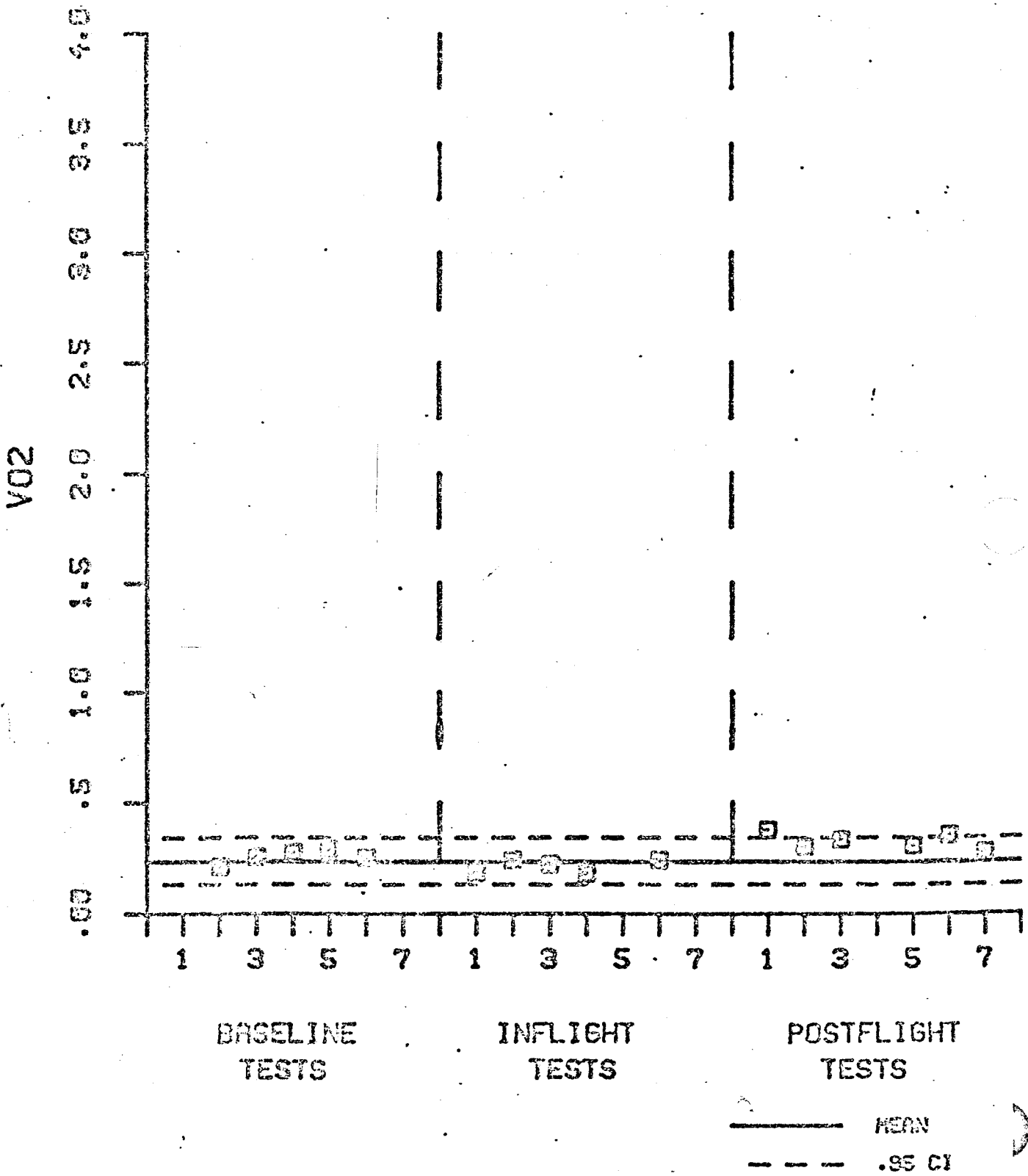
SKYLAB 2 M171 SUMMARY

PILOT
REST



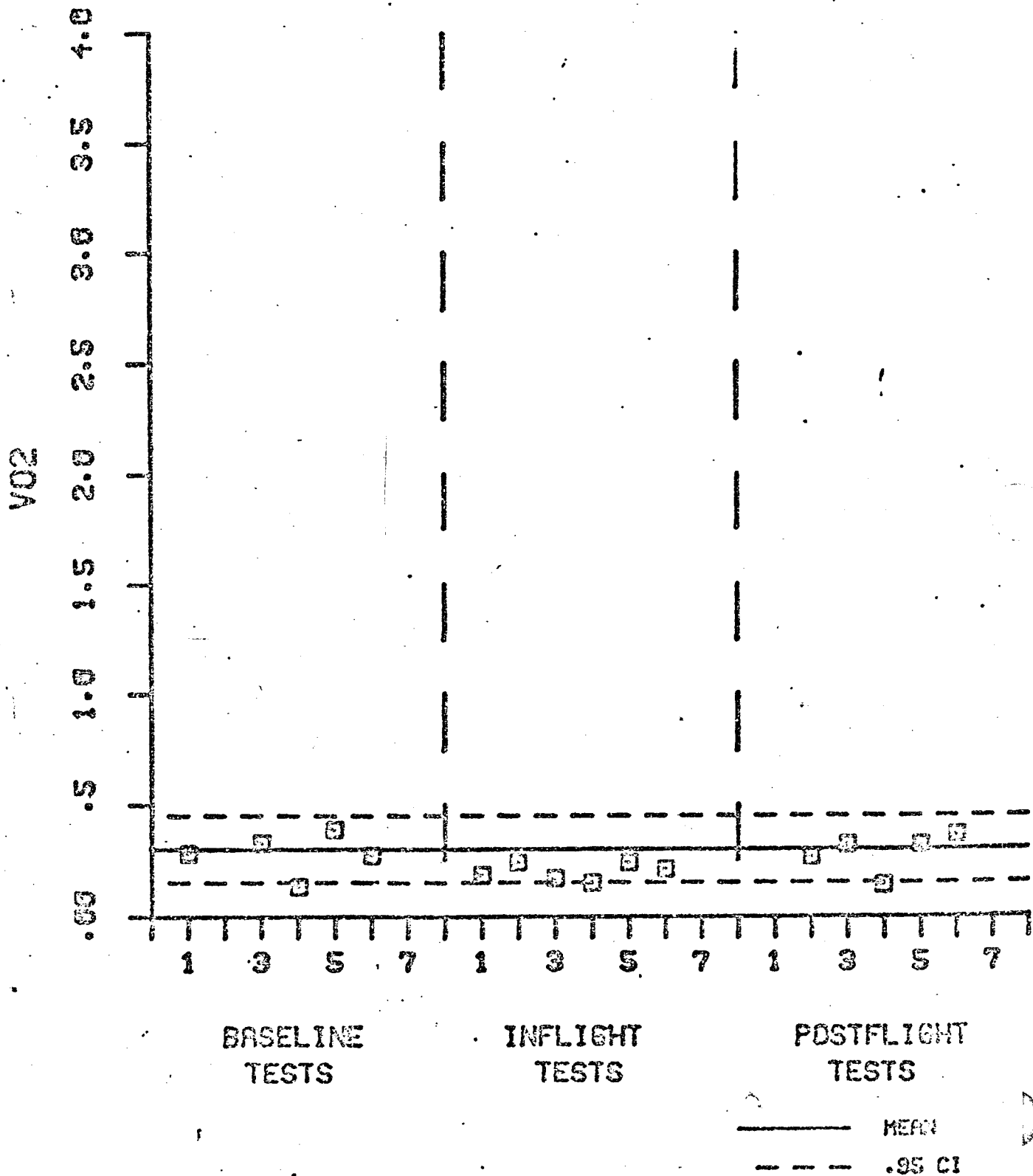
SKYLAB 2 M171 SUMMARY

COMMANDER
REST



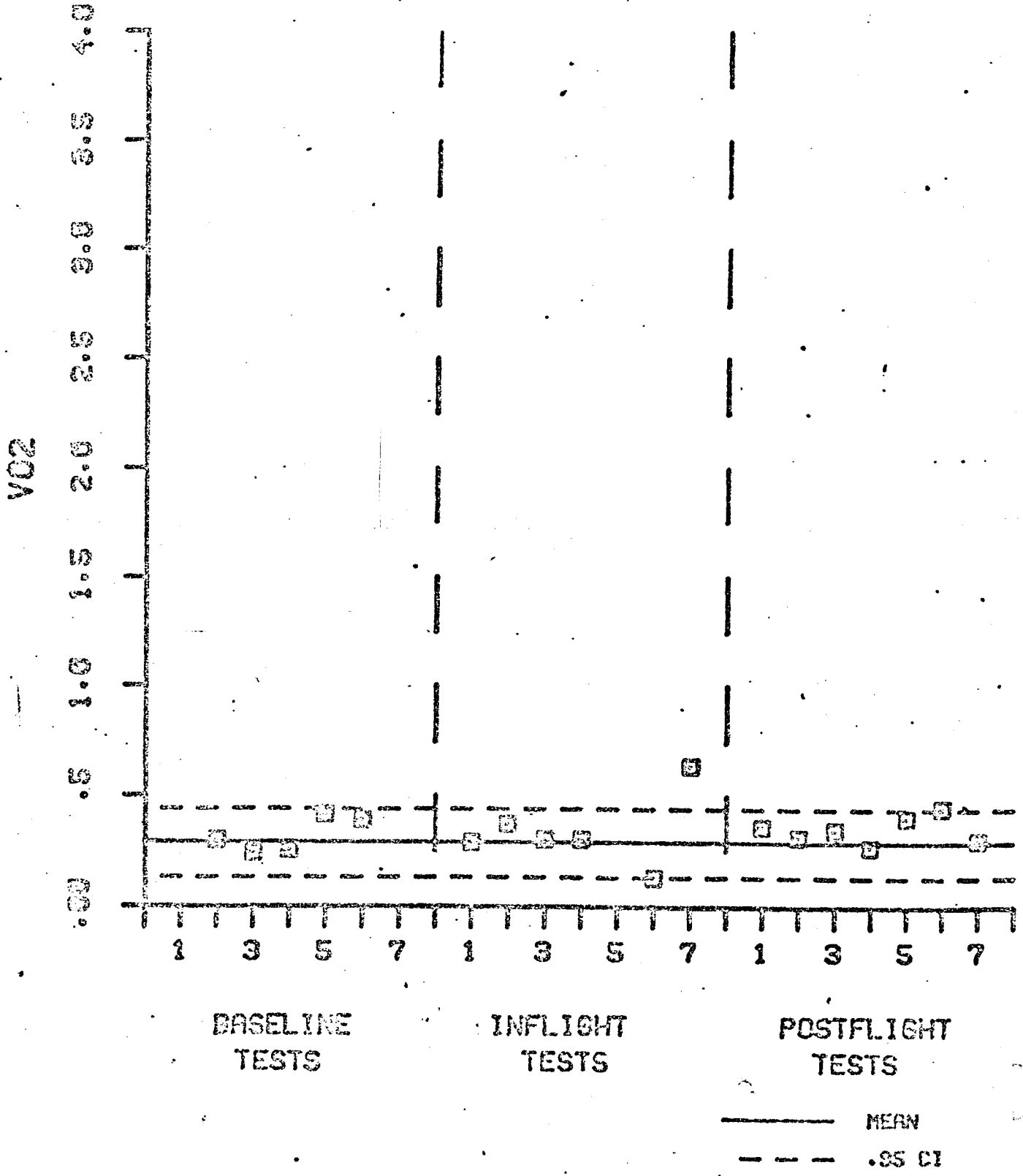
SKYLAB 2 M171 SUMMARY

SCIENTIST PILOT
REST



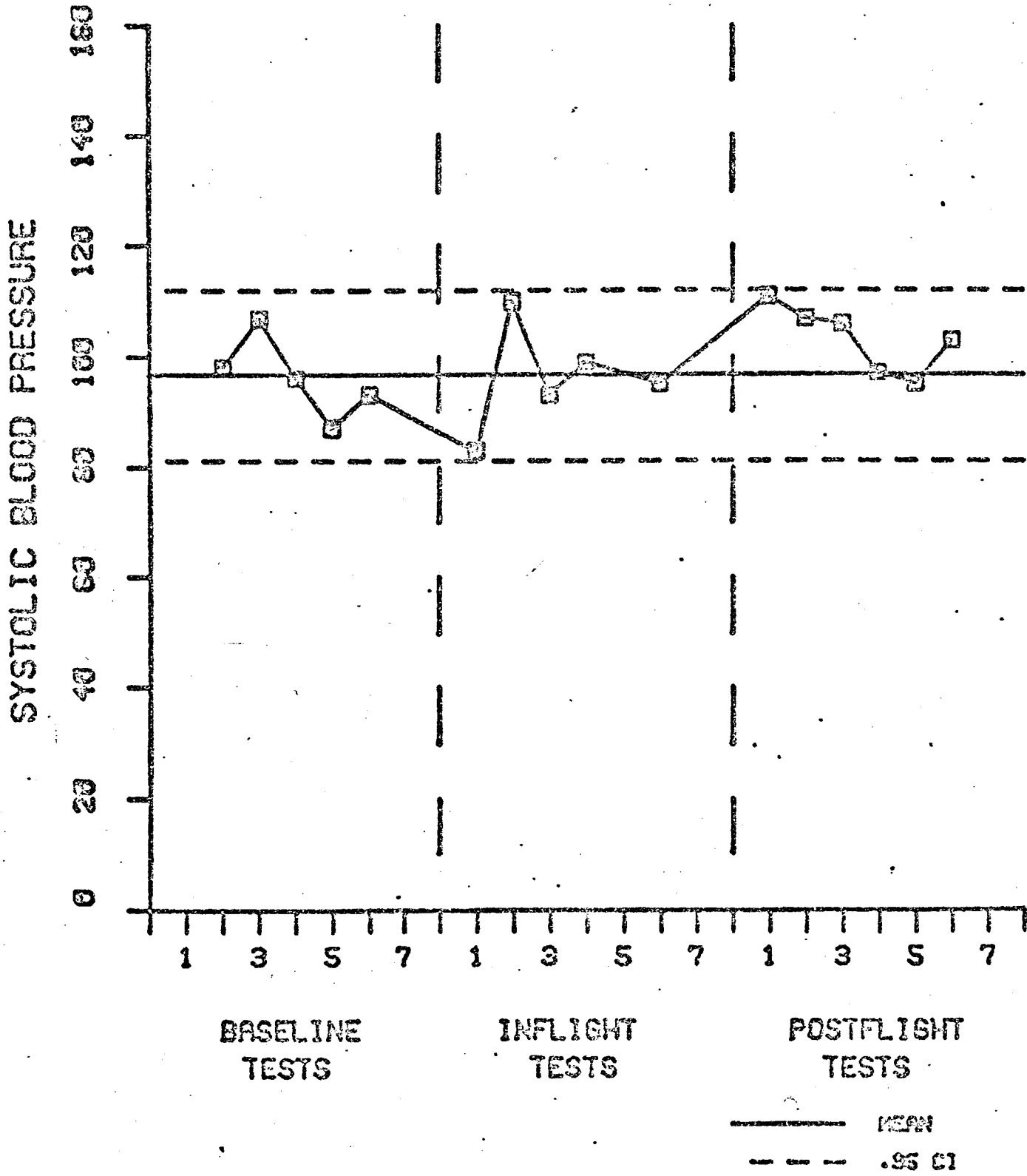
SKYLAB 2 M171 SUMMARY

PILOT
REST



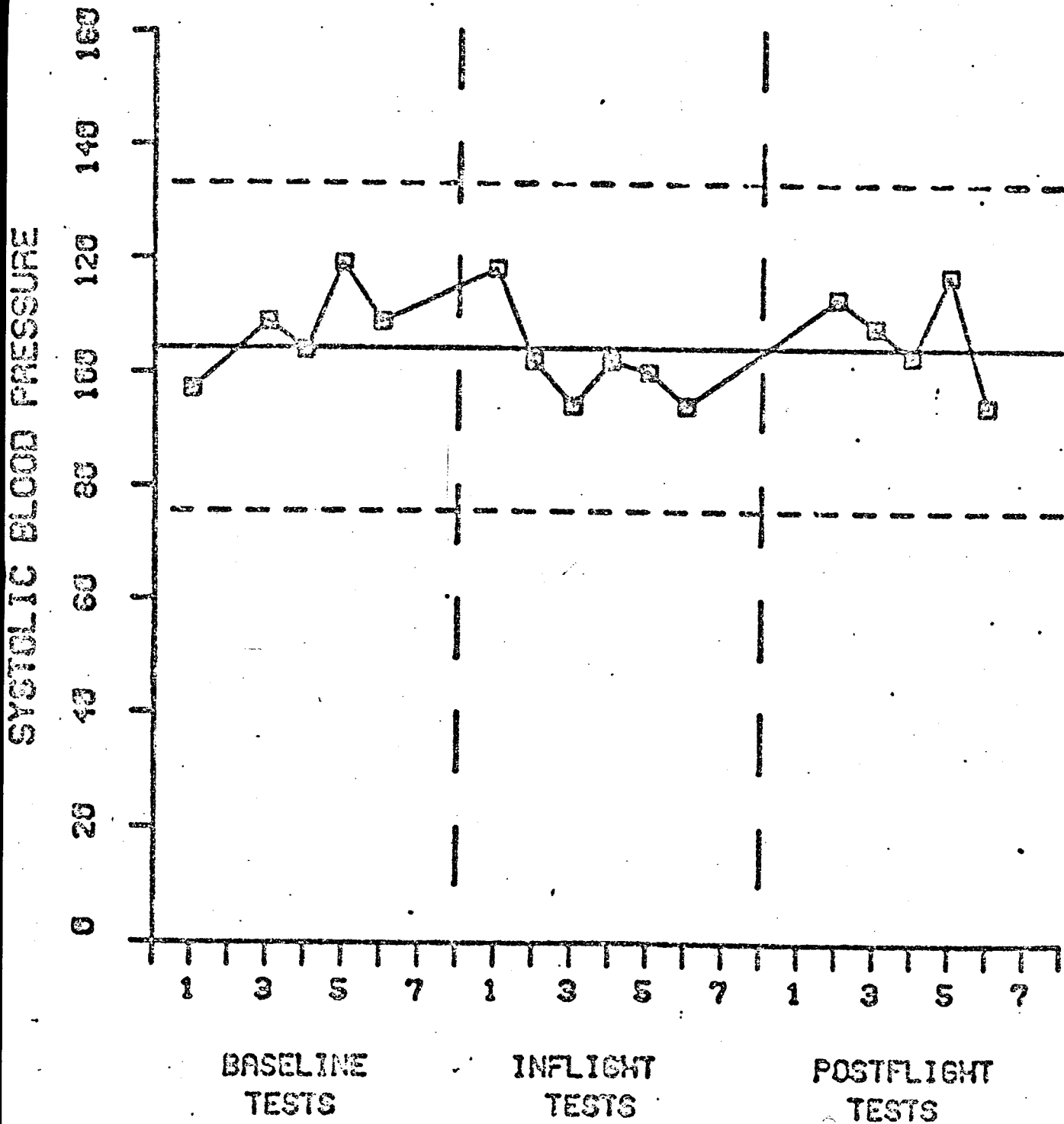
SKYLAB 2 M171 SUMMARY

COMRAIDER
REST



SKYLAB 2 M171 SUMMARY

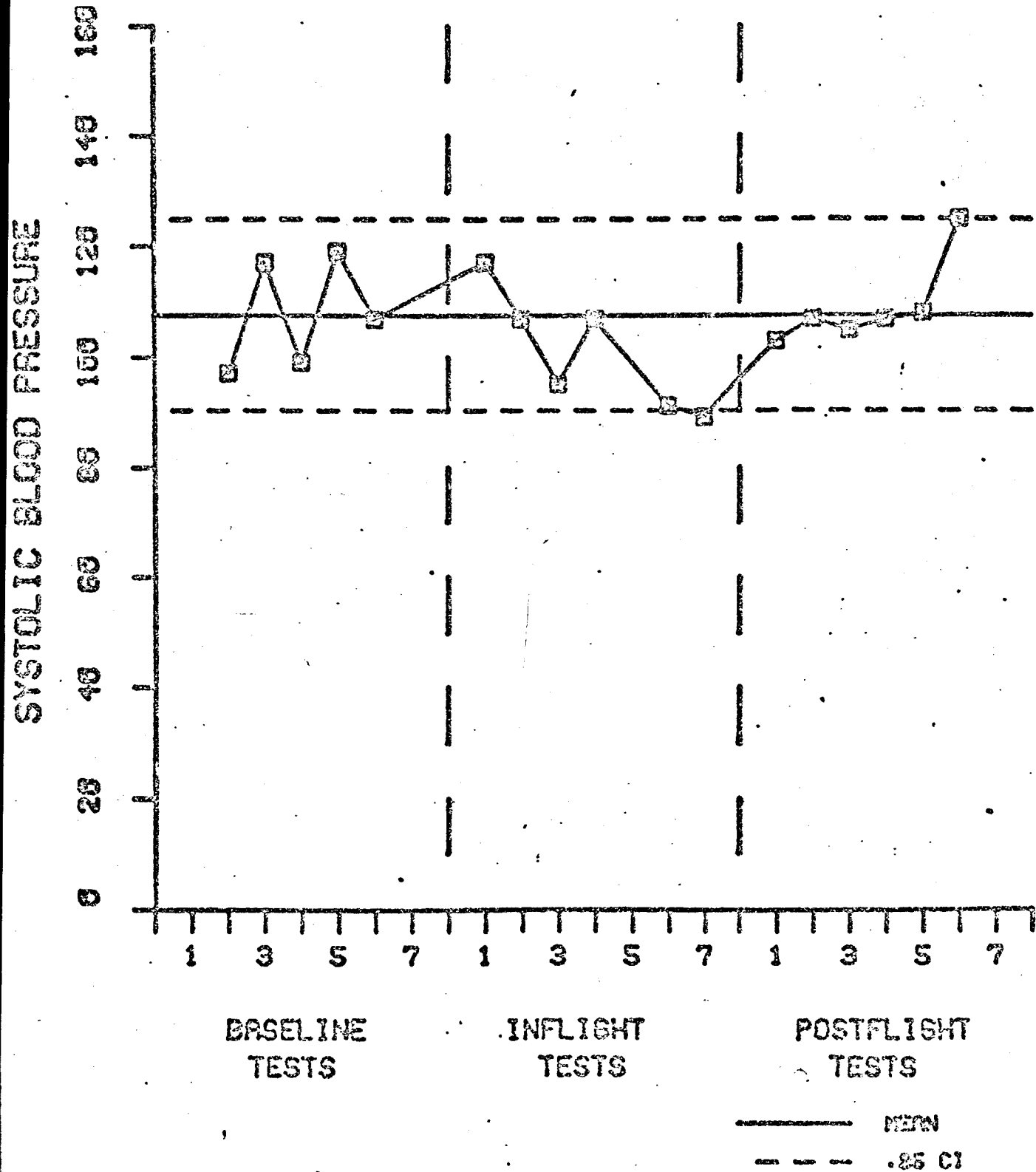
SCIENTIST PILOT REST



————— MEAN
- - - - - .95 CI

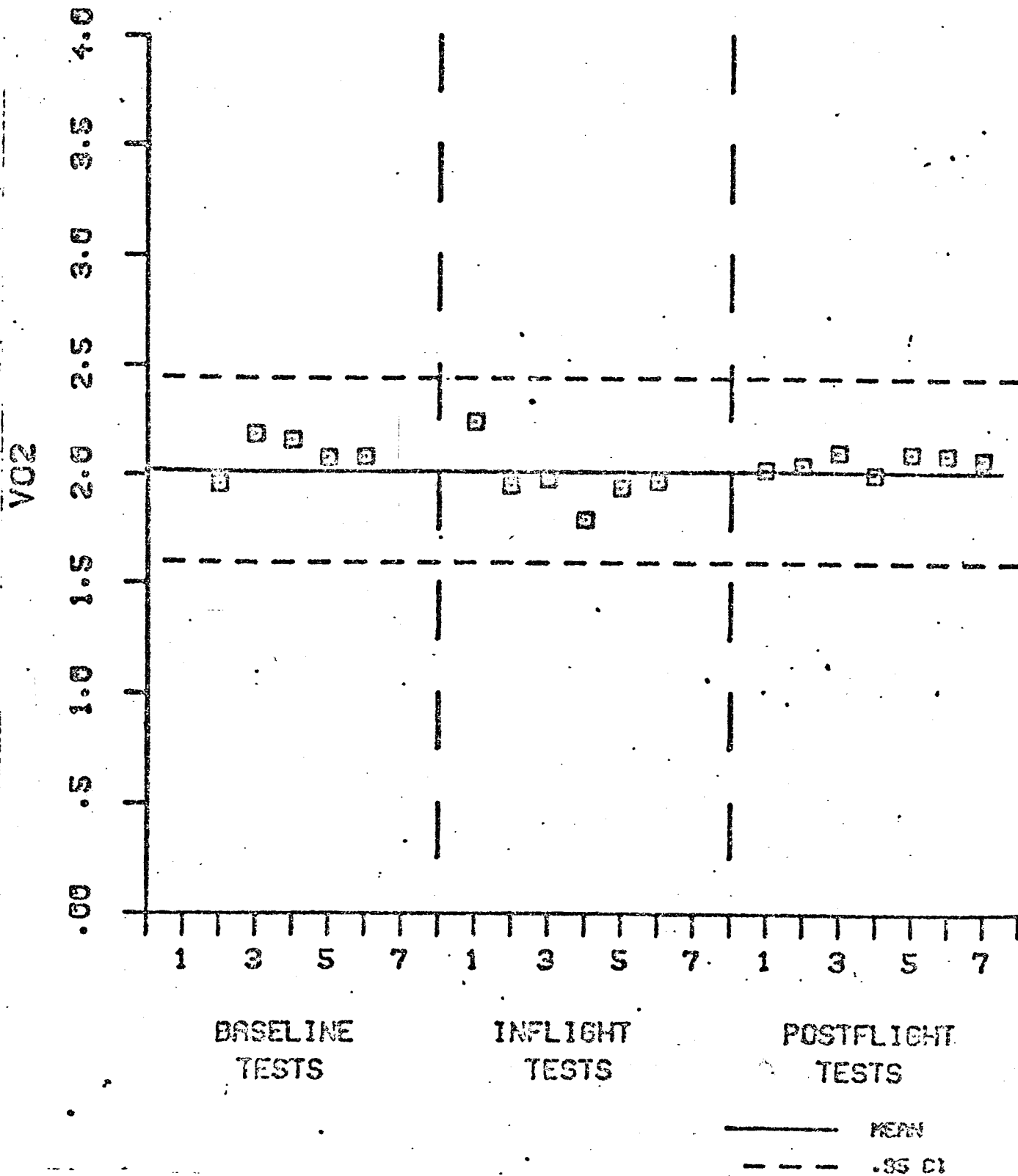
SKYLAB 2 M171 SUMMARY

PILOT
REST



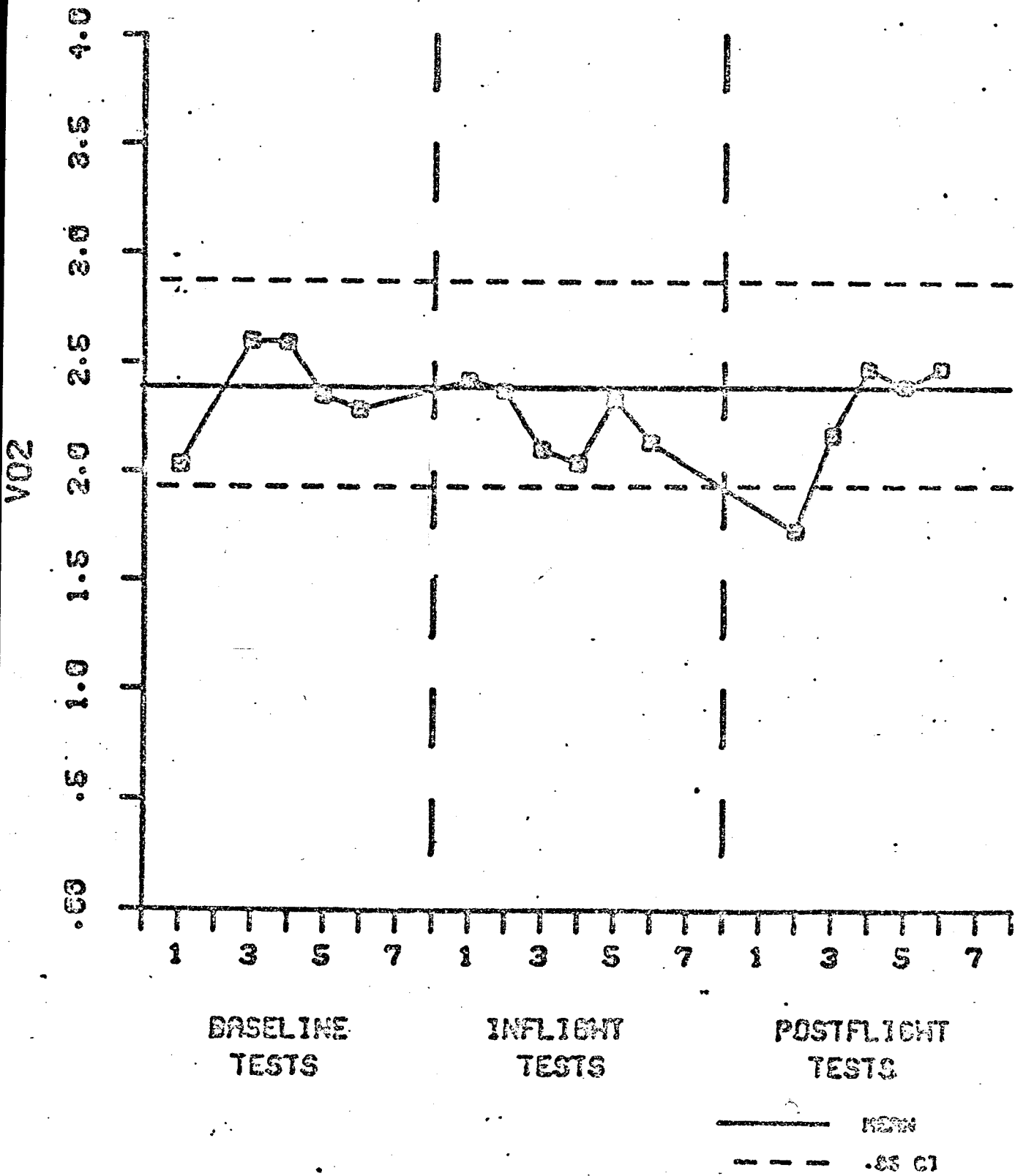
SKYLAB 2 M171 SUMMARY

COMMANDER LEVEL 3 EXERCISE



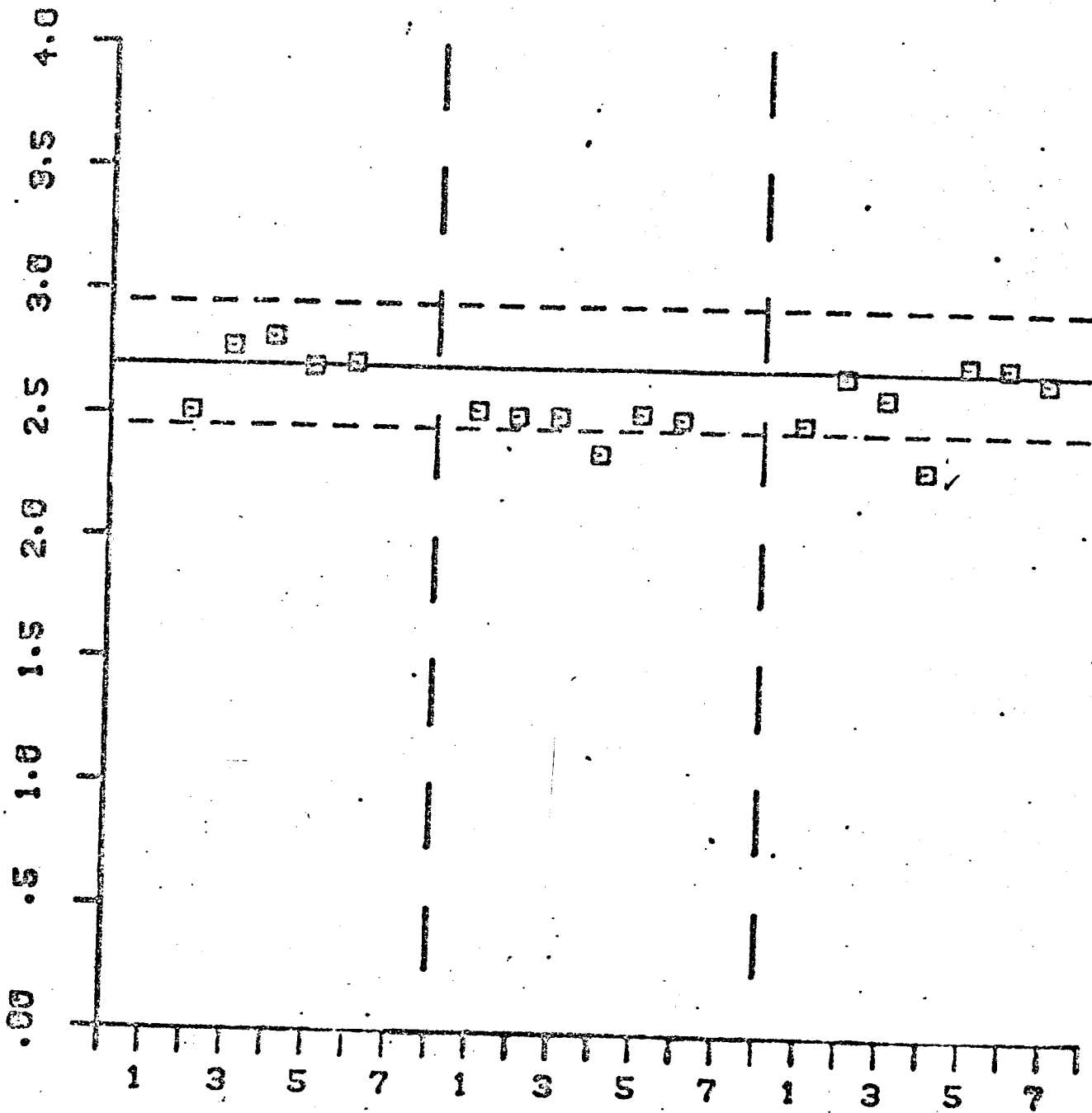
SKYLAB 2 M171 SUMMARY

SCIENTIST PILOT LEVEL 3 EXERCISE



SKYLAB 2 M171 SUMMARY

PILOT LEVEL 3 EXERCISE



BASELINE
TESTS

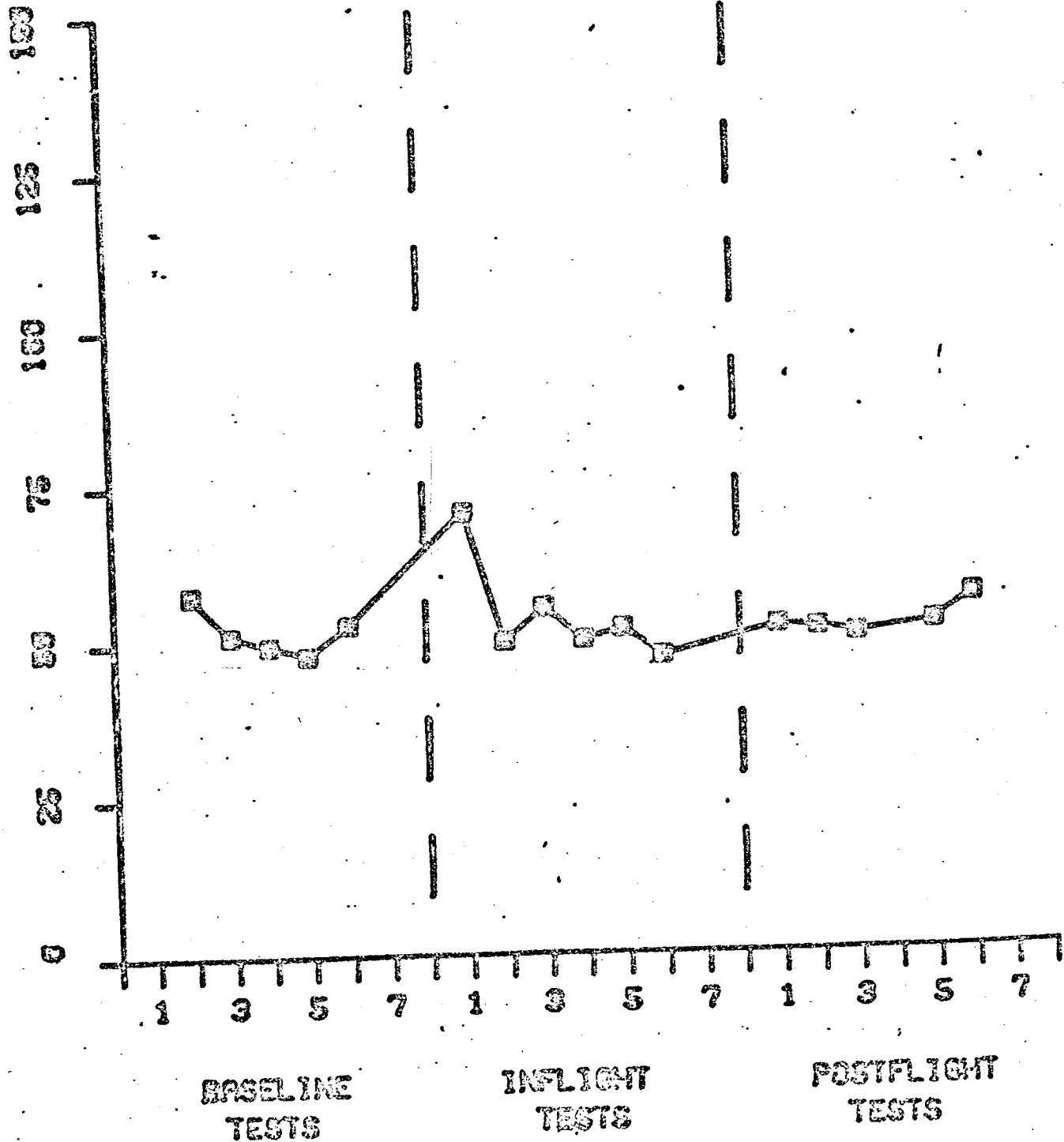
INFLIGHT
TESTS

POSTFLIGHT
TESTS

————— MEAN
- - - - - .95 CI

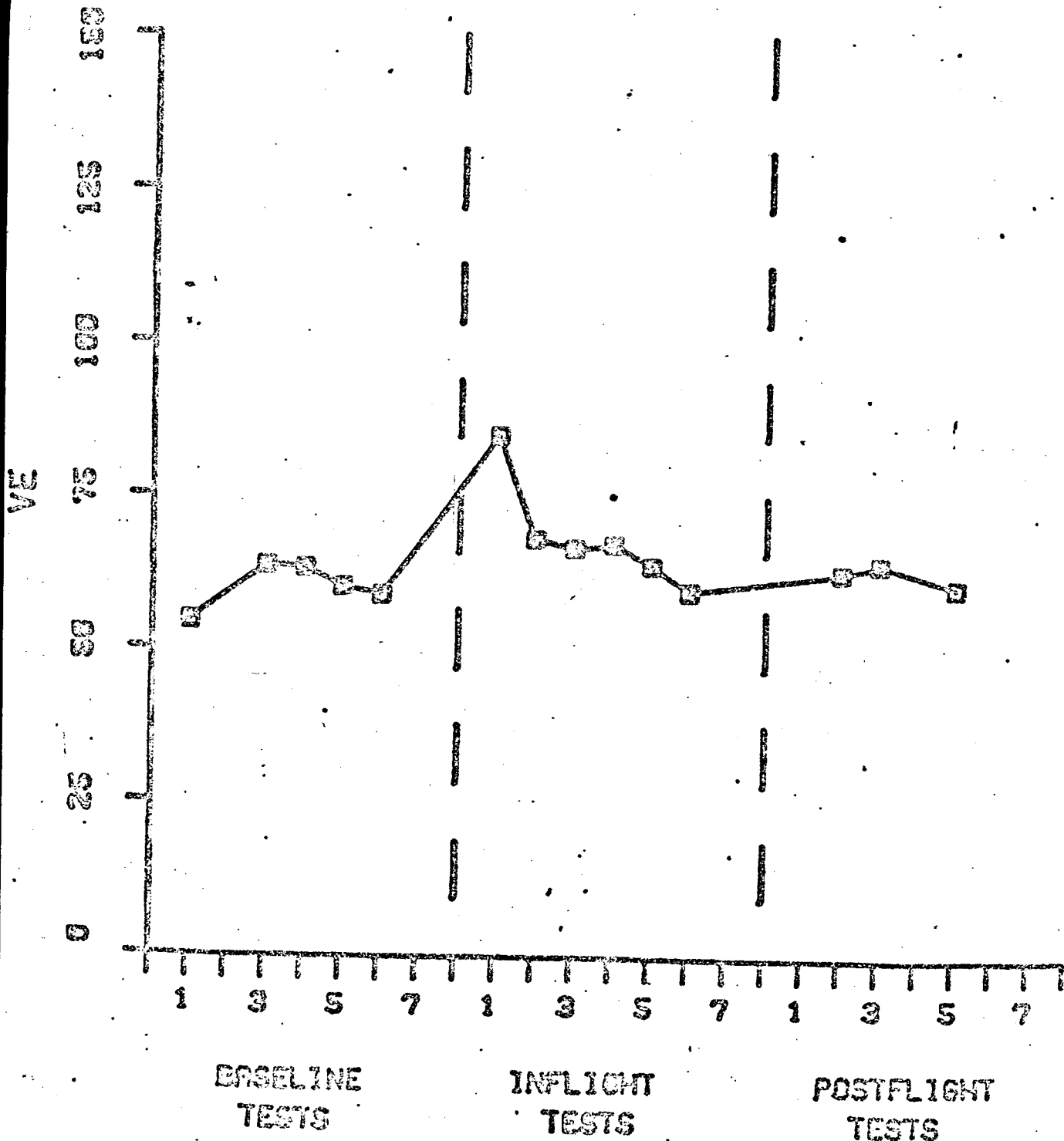
SKYLAB 2 M171 SUMMARY

CONSIDER
2.0 L MIN V_{O2}



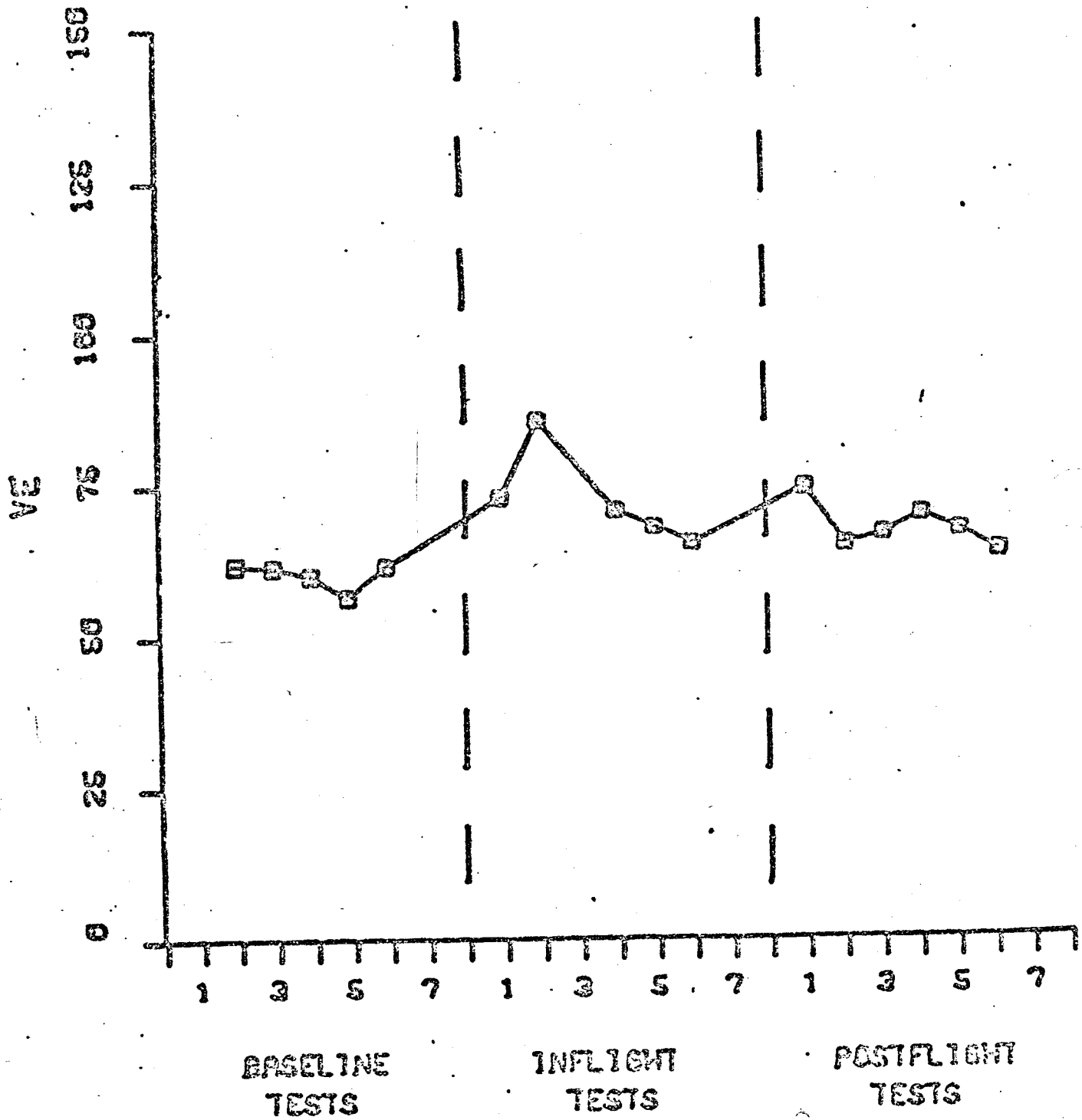
SKYLAB 2 M171 SUMMARY

SCIENTIST PILOT
2.0 L MIN VO2



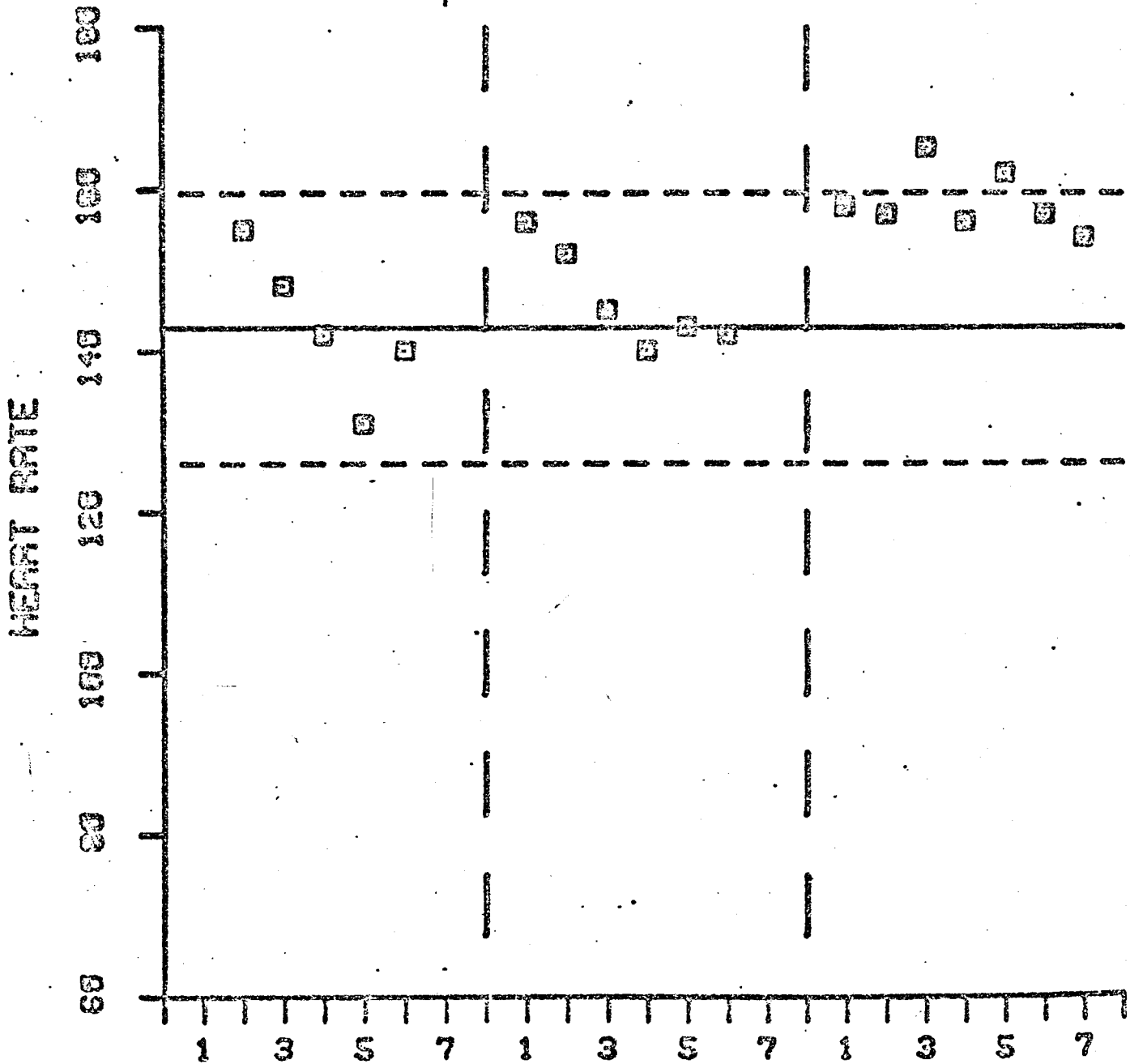
SKYLAB 2 M171 SUMMARY

PILOT
2.0 L MIN VO2



SKYLAB 2 M171 SUMMARY

COMMANDER
LEVEL 3 EXERCISE



BASELINE
TESTS

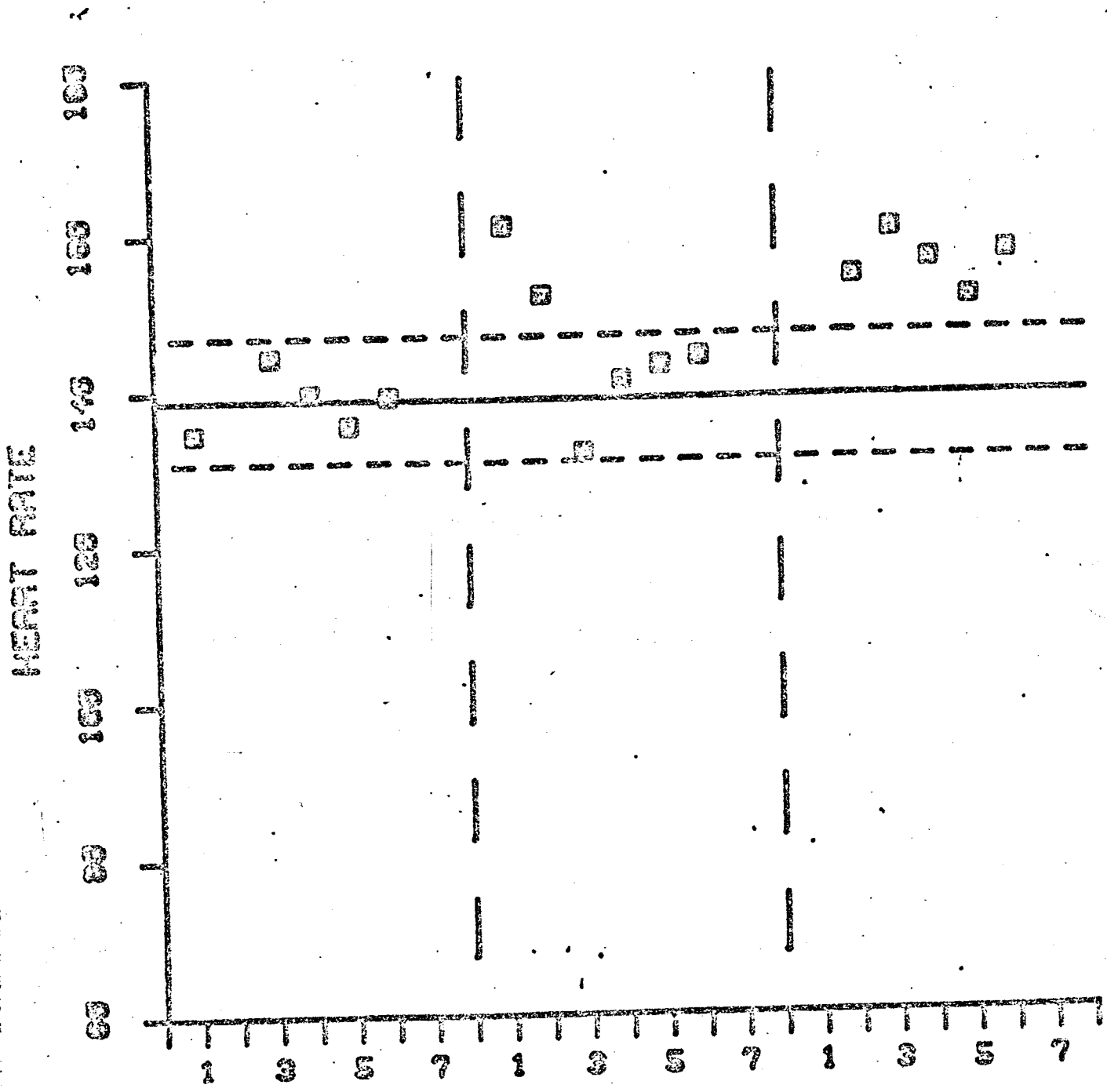
INFLIGHT
TESTS

POSTFLIGHT
TESTS

————— MEAN
- - - - - .95 CI

SKYLAB 2 M171 SUMMARY

SCIENTIST PILOT LEVEL 3 EXERCISE



BASELINE
TESTS

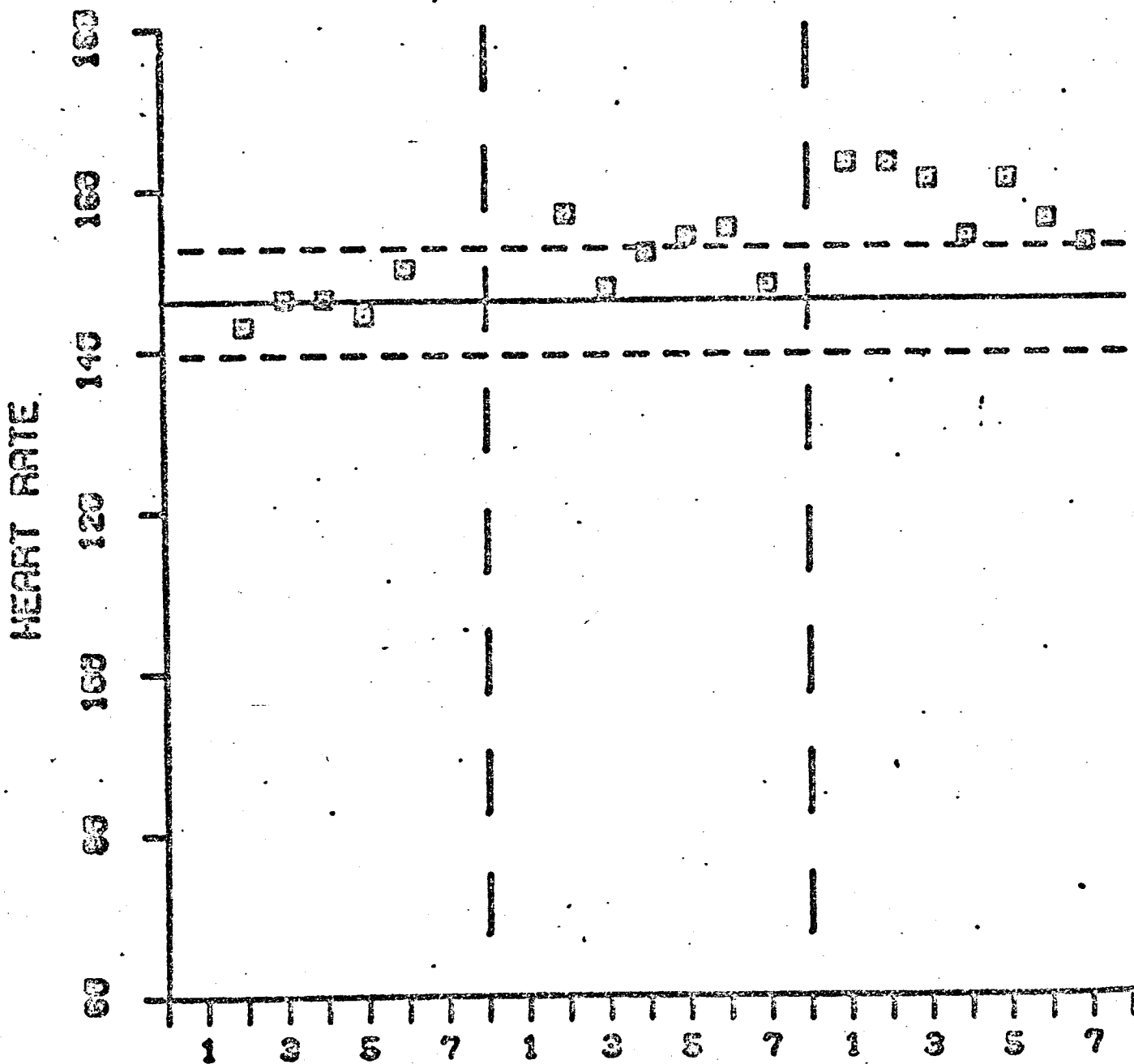
INFLIGHT
TESTS

POSTFLIGHT
TESTS

————— MEAN
- - - - - .95 CI

SKYLAB 2 M171 SUMMARY

PILOT
LEVEL 3 EXERCISE



BASELINE TESTS

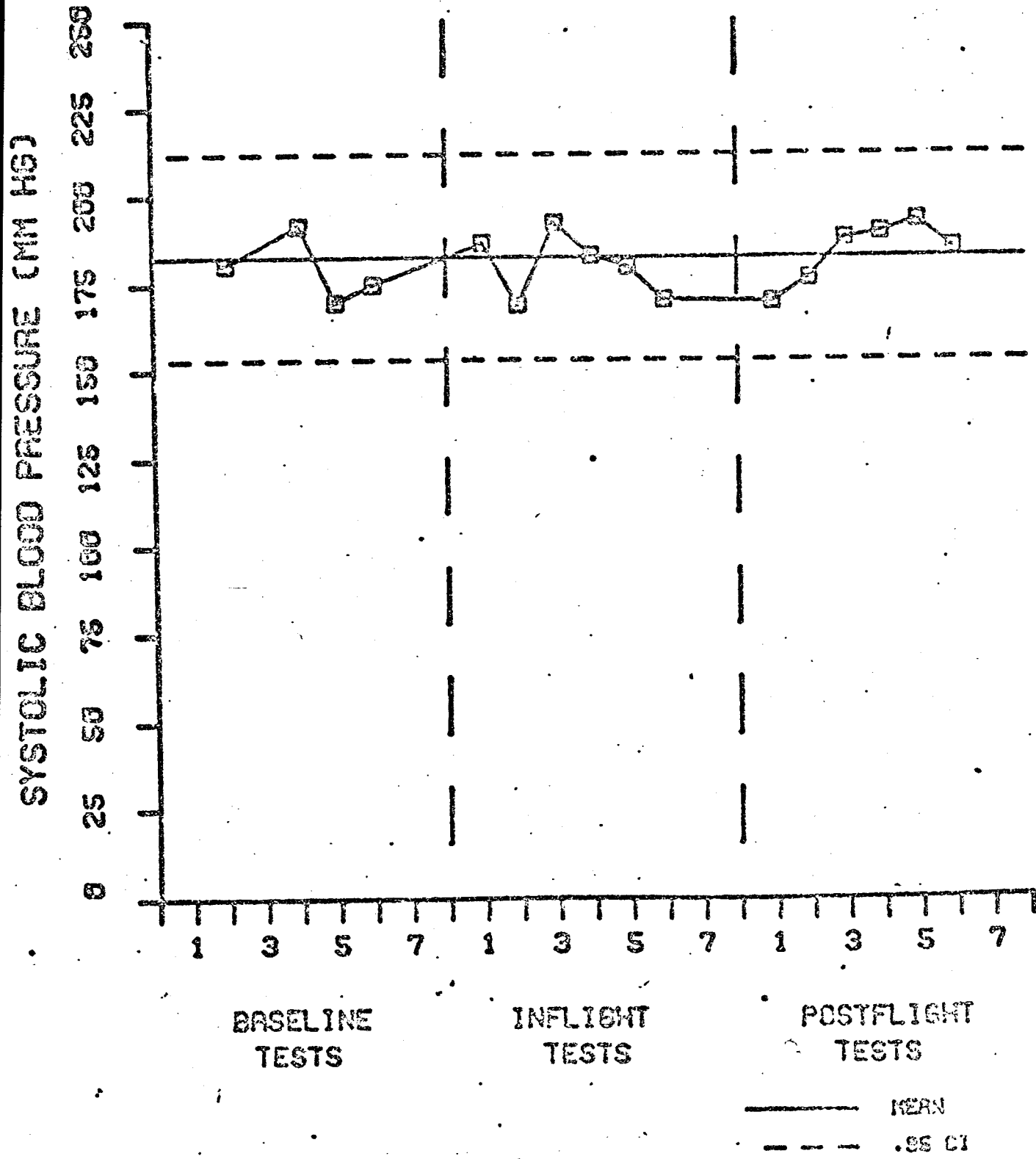
INFLIGHT TESTS

POSTFLIGHT TESTS

————— MEAN
- - - - - .68 SD

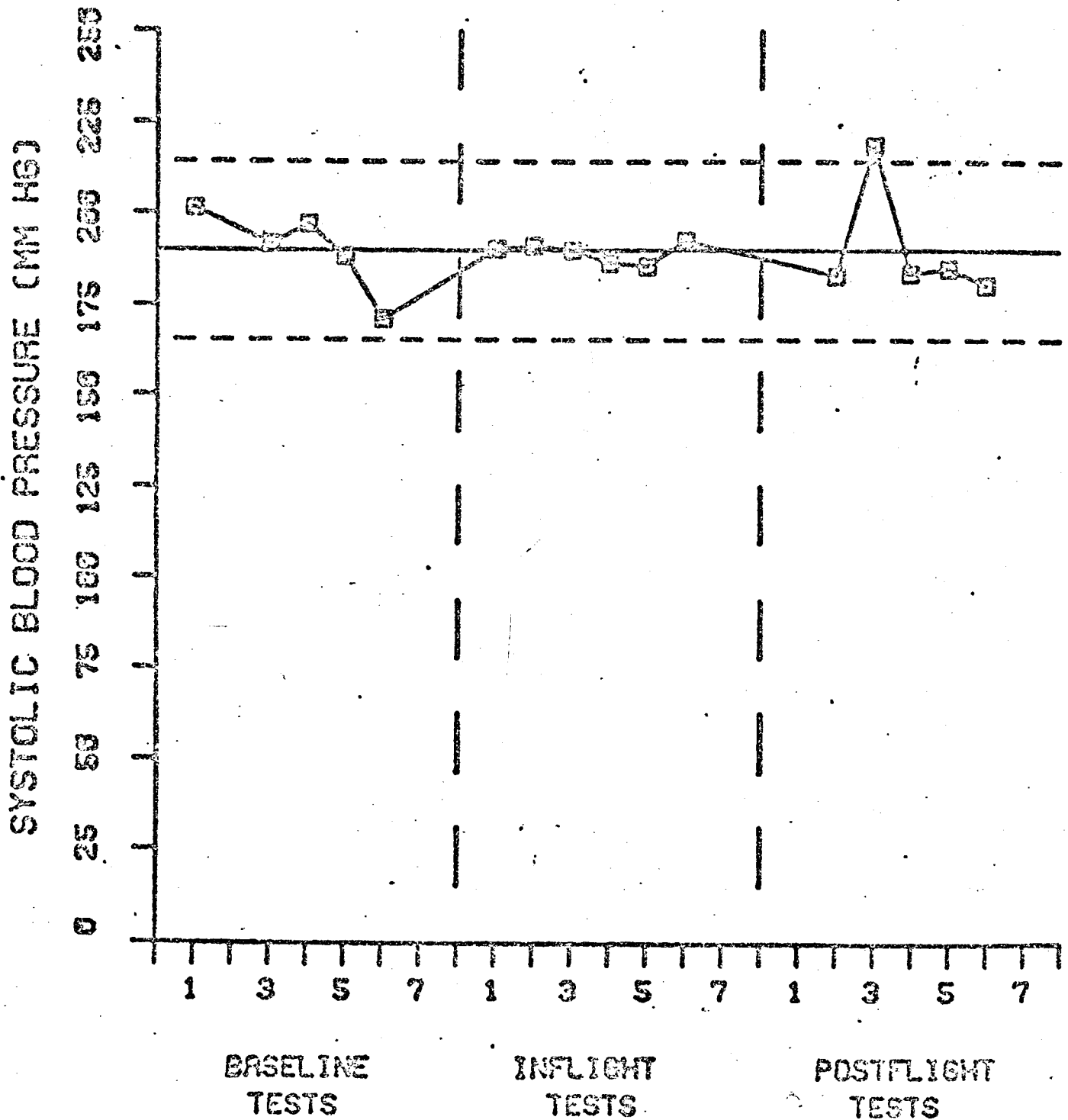
SKYLAB 2 M171 SUMMARY

COMMANDER LEVEL 3 EXERCISE



SKYLAB 2 M171 SUMMARY

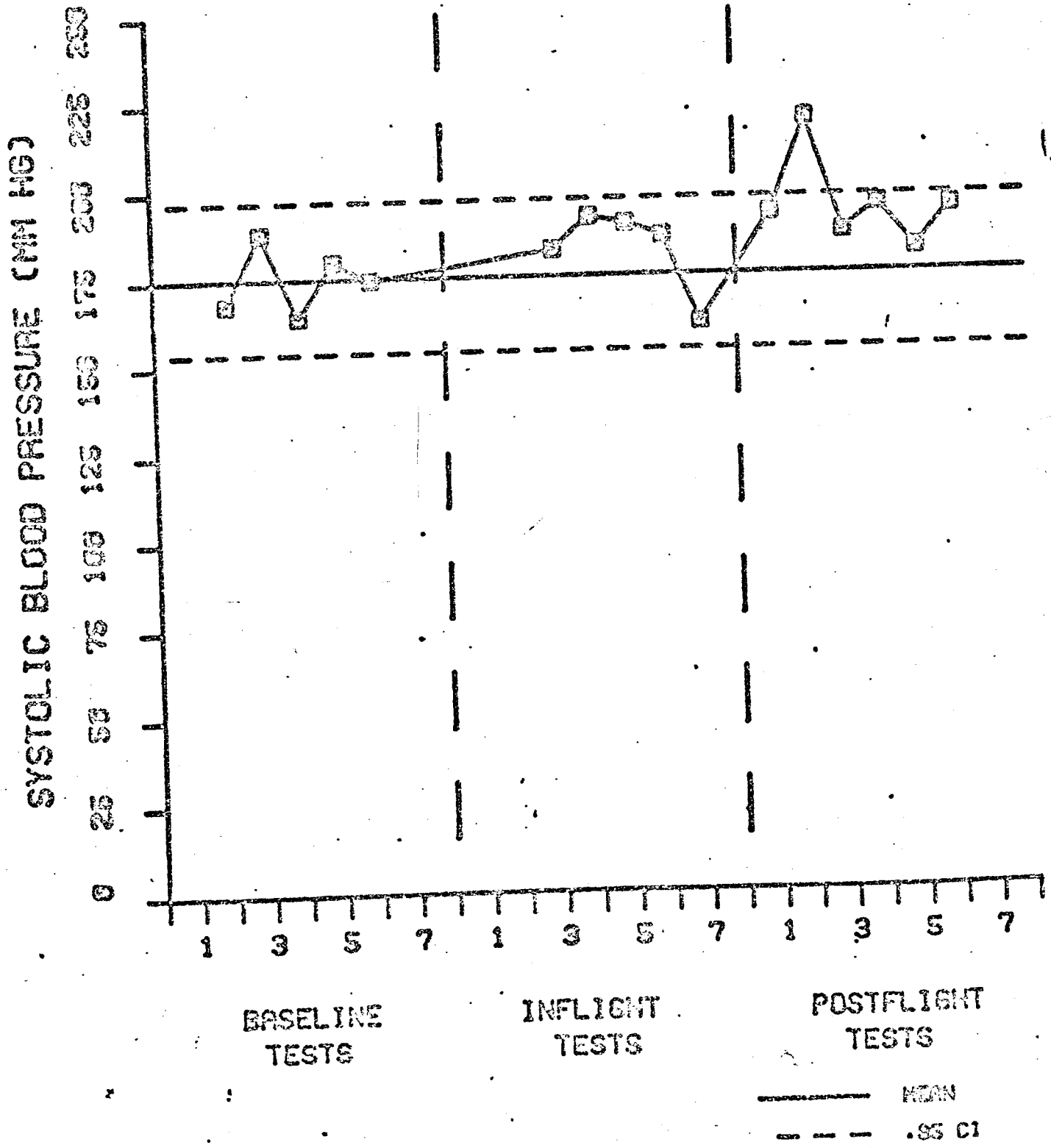
SCIENTIST PILOT LEVEL 3 EXERCISE



————— MEAN

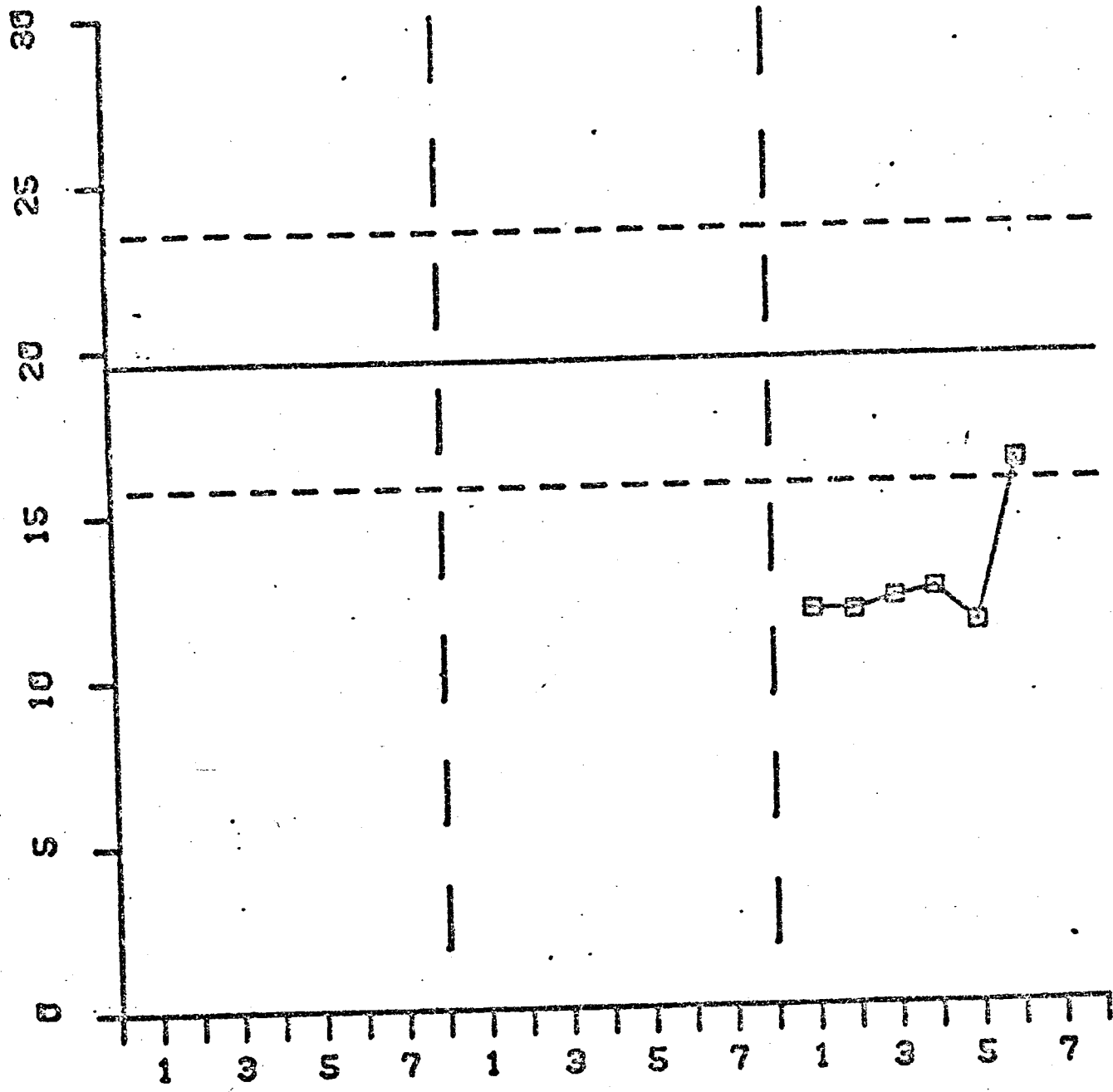
SKYLAB 2 M171 SUMMARY

PILOT
LEVEL 3 EXERCISE



COMMANDER
160 HEART RATE

CARDIAC OUTPUT (L PER MINUTE)



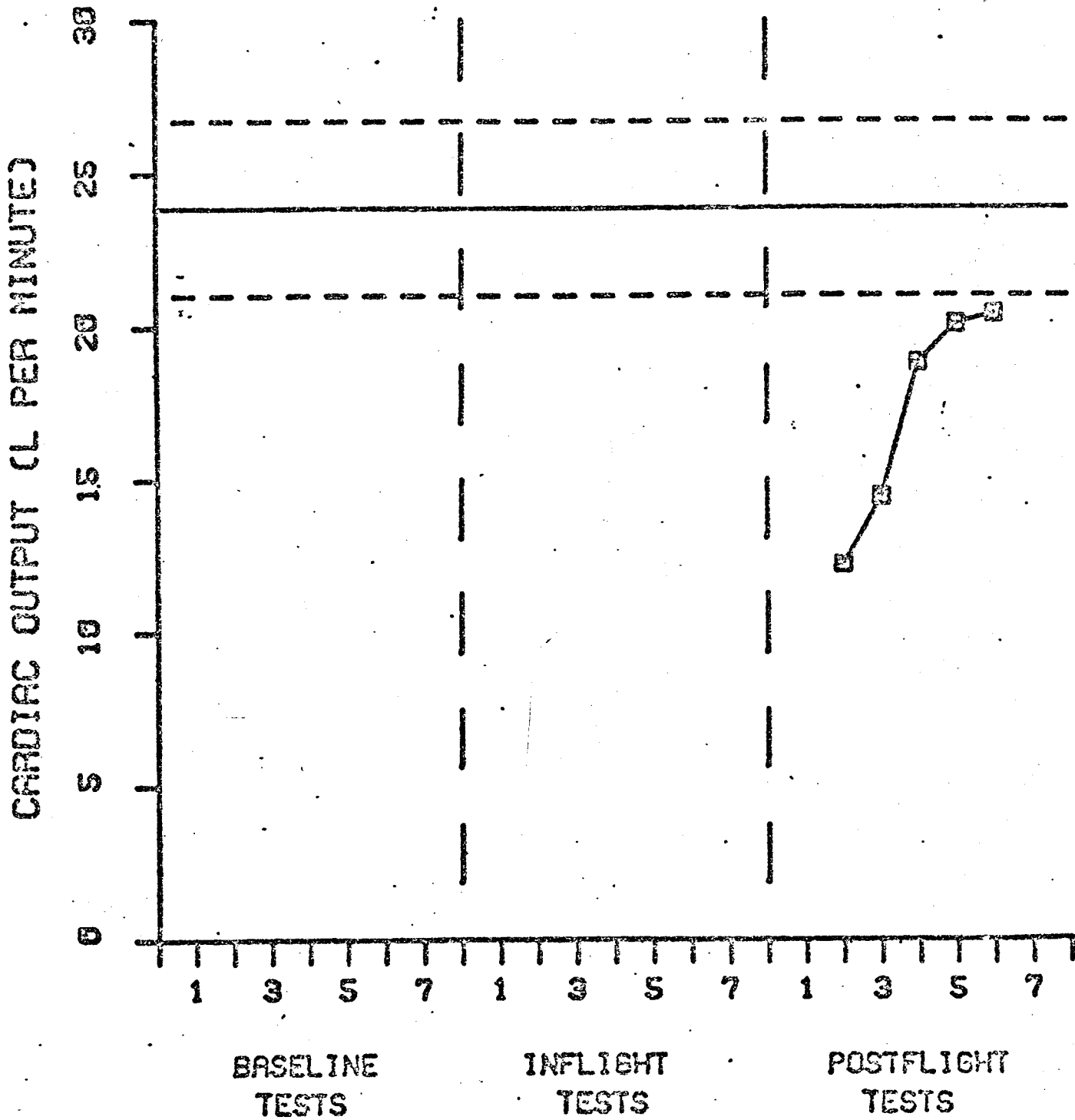
BASELINE TESTS

INFLIGHT TESTS

POSTFLIGHT TESTS

————— MEPM
- - - - - .86 CI

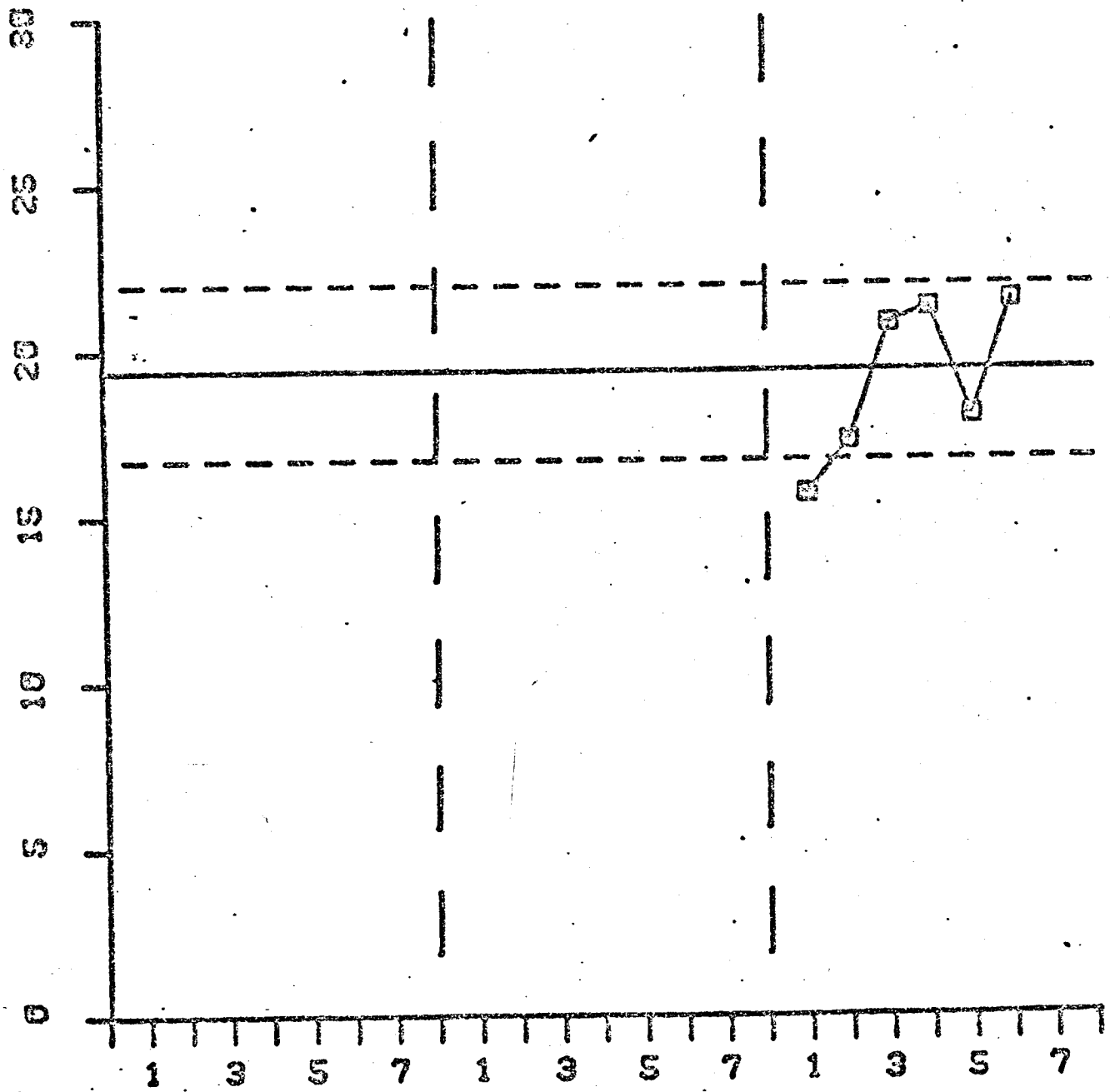
SCIENTIST PILOT
160 HEART RATE



————— MEAN
- - - - - .95 CI

PILOT
160 HEART RATE

CARDIAC OUTPUT (L PER MINUTED)



BASELINE TESTS

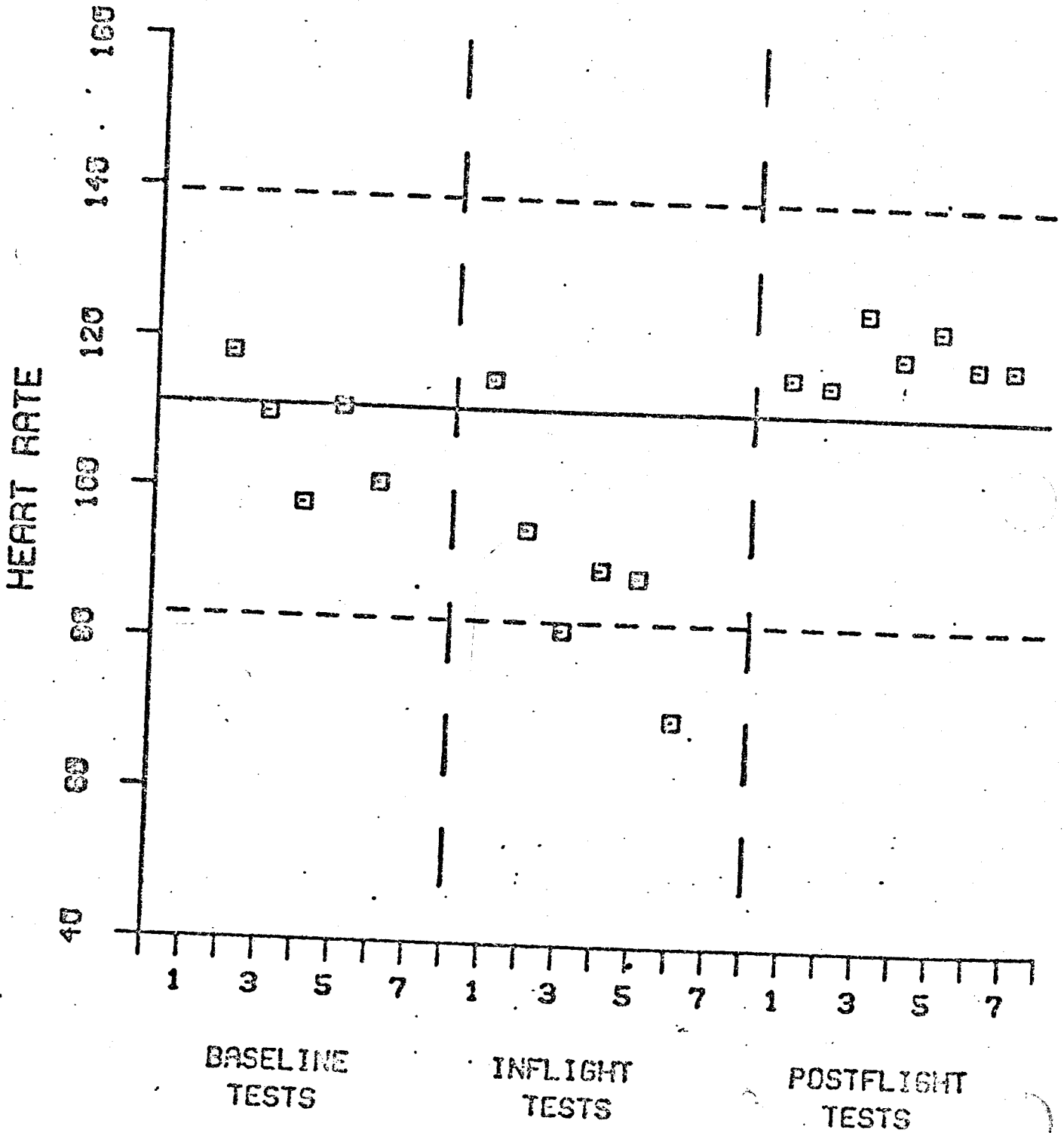
INFLIGHT TESTS

POSTFLIGHT TESTS

————— MEAN
- - - - - .95 CI

SKYLAB 2 M171 SUMMARY

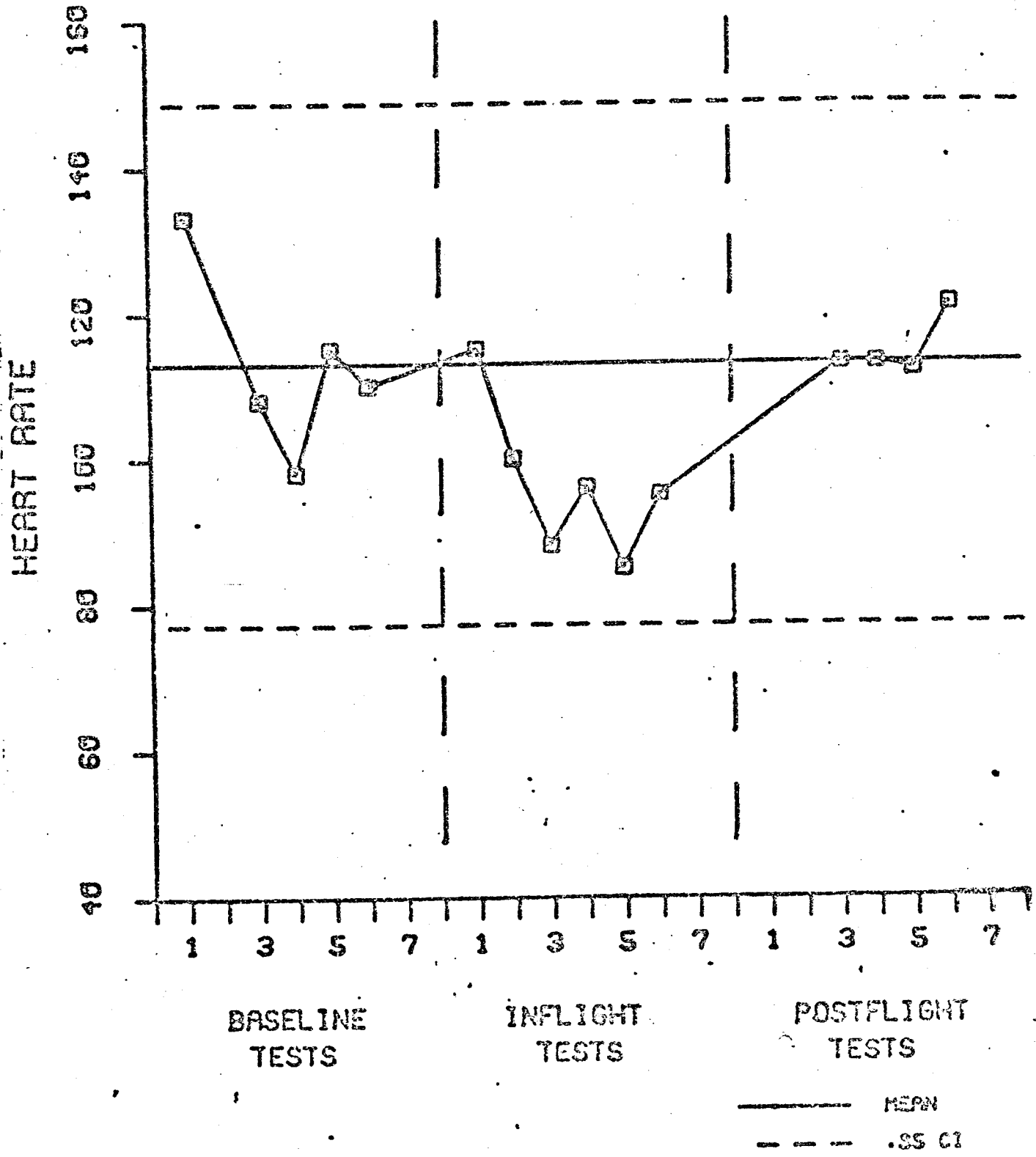
COMMANDER RECOVERY



————— MEAN
----- .95 CI

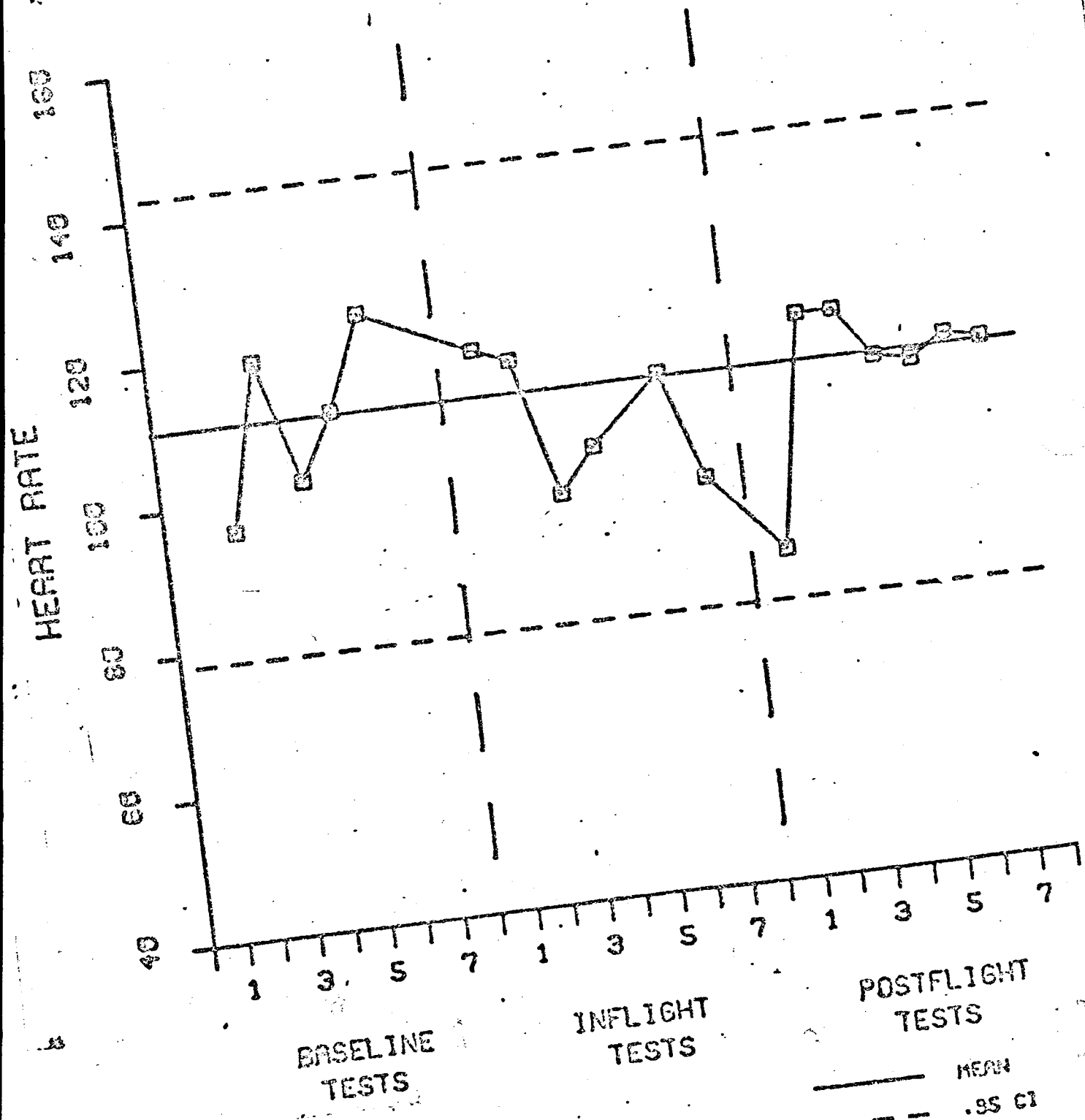
SKYLAB 2 M171 SUMMARY

SCIENTIST PILOT RECOVERY



SKYLAB 2 M171 SUMMARY

PILOT RECOVERY



SL-2 M171 A COMPARISON

	REST	STRESS			RETURN TO NORMAL
		Mech. Eff.	Resp. Eff.	Cardio. Eff.	
edrest	Elevated H.R.	N.C.	N.C.	Decreased 20 - 40%	8 - 43 Days
pollo	Elevated H.R.	N.C.	N.C.	Decreased \bar{x} 25% 10-40%	24 - 48 Hours
pollo 15	Elevated H.R.	N.C.	N.C.	Decreased \bar{x} 20%	8 - 13 Days
kylab 2 Post-flight)	Elevated H.R.	N.C.	N.C.	Decreased 20 - 30%	Longer than Apollo CDR - 14 Days SPT - 24 Days PLT - Not Returned
kylab 2 in-flight)	Decreased	N.C.	N.C.	N.C.	

M171 FACTORS RELEVANT TO EXTENDING MISSION DURATION

- ① MAGNITUDE OF ANY IMMEDIATE OFFSET IN "NORMAL" RESPONSE
- ② TRENDS INDICATING A DECREASINGLY DEGRADED INFLIGHT RESPONSE
- ③ MAGNITUDE OF ANY POST-FLIGHT DECREMENT
(COMPARISON TO APOLLO?)
- ④ TIME COURSE OF RETURN TO "NORMAL"
(COMPARISON TO APOLLO?)