## **SPACE SHUTTLE MISSIONS SUMMARY**

FLT ORBITER (7) LAUNCH SITE, LIFTOFF TIME, LANDING SITE/ CROSSRANGE EMERG RSRM  NO. TITLE, NAMES & EVA'S ABORT TIMES FLT DURATION, WINDS ENG. S.N.  LANDING SITE/ SSME-TL NOM-ABORT SRB RSRM  CROSSRANGE EMERG RSRM  INC HA/HP PAYLOA EXPERIME	(LAUNCH SCRUBS/DELAYS,
& EVA'S ABORT TIMES FLT DURATION, PROFILE ET EXPERIME	
WINDS ENG. S.IV.	•
STS-50   CV-102   CDR:   CDR	delivery to KSC after major mod period at Palmdale Launch postponed to 6/25/92 because of Ku-Band comm work, RSB corrosion repair, and LiOH canister locker interference.  ED: LAUNCH SCRUB: None.  LAUNCH DELAYS: - 5M 23S delay during T-9 hold due to a concern about a cirrus layer at 28K-33K with a detached anvil (potential lightning in launch area). WX STA PLT reported it was not a problem because he could see through it.  TAL WX: - Banjul forecast and observed NO GO - ceiling. Ben Guerir forecast and observed GO (selected). Rota forecast NO GO - Vis (Haze), observed GO.  SCD: - ASCENT I-LOADS: - Nominal selected, no uplink required.  ELEST: - Extended 1 day because of forecasted rain at EDW Changed landing site to KSC and landed one rev early because EDW had forecast of rain in clouds.  EIRSTS: - First flight of OV-102 after OMDP (Major Mods at Palmdale) First EDO flight and EDO pallet First EDO flight and EDO pallet First flight of RCRS (Regenerable CO2 Removal System) First flight of OV-102 with drag chute, INWS, etc. (Second flight of drag chute - deployed after NLGTD) First flight to exceed GEMINI VII flight duration (by 54:33). Only 3 SKYLAB flights exceed STS-50 duration.  DRAG CHUTE STRATEGY: Second drag chute deploy with NLG on ground.  Continued

## **SPACE SHUTTLE MISSIONS SUMMARY**

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FLT ORBITER NO.	CREW (7) TITLE, NAMES & EVA'S	LAUNCH SITE, LIFTOFF TIME, LANDING SITES, ABORT TIMES	LANDING SITE/ RUNWAY, CROSSRANGE LANDING TIMES FLT DURATION, WINDS	SSME-TL NOM-ABORT EMERG THROTTLE PROFILE ENG. S.N.	SRB RSRM AND ET	INC	ORBIT HA/HP	FSW	PAYLOAD WEIGHTS, PAYLOADS/ EXPERIMENTS	MISSION HIGHLIGHTS (LAUNCH SCRUBS/DELAYS, TAL WEATHER, ASCENT I-LOADS, FIRSTS, SIGNIFICANT ANOMALIES, ETC.)
STS-50 Continued			Continued  DENS ALT: 1423 FT  FLT DURATION: 13:19:30:04 331:30:04  S/T: 307:15:59:29  OV-102: 88:20:44:28  DISTANCE: 5,758,332 sm							SIGNIFICANT ANOMALIES: RCRS shutdown due to a short in the controller, hence LiOH canisters used until IFM required use at 5 days MET. SL/Orbiter air not mixing properly. Found a removable inline redundant seal was not removed from tunnel air ducting as should be for on-orbit operations. Waste water dump line blockage causing reduction in dump rate. Cryo O <sub>2</sub> tank 2 had a 1 lb/hr leak. Cryo O <sub>2</sub> tank 2 heater A2 experienced intermittent power dropouts. Fuel cell 3 O <sub>2</sub> purge valve did not close completely. Manually closed, did not purge again for remainder of flight. Cryo O <sub>2</sub> tank 7 check valve failed in open position. SS inverter overvolt shut down when SL H <sub>2</sub> O loop was turned on. FWD starboard floodlight did not come on. R OMS yaw TVC excessive movement during ascent. Aileron trim deflected to 2.2° at M=10.1, preflight predicted was maximum of 0.80 deflection. TAGS jam on day 2, used teleprinter. Flight deck Canon A1, Mark II camcorder failure. ROB brake pressure low. APU 1 gearbox N2 pressure decay/ transducer erratic. L1U jet heater fail on. F2F jet fail off.