NASA Life Sciences Data Archive
Investigator name: Kenneth Souza
Mission (Payload): STS-47 (SL-J)
Experiment title (ID): Effect of Weightlessness on Development of Amphibian Eggs (178256)
File name/Inventory ID: SL-J Notes on Frogs' Swimming Behavior

Key Mission Data - FEE
SL-J (cont'd)

h) 22 hr fix:
Time: MET 02/20:35 actual
Notes:
02/19:00 scheduled

i) Swimming Behavior Video:
Time: ~MET 2/20:22
Notes: FLASK A: Swimming behavior abnormal, some freeze, some show backward loops, some show forward loops, some corkscrew & sometimes normal swimming was observed. (TOTAL SWIMMING: 6)
FLASK B: One abnormal (bent tail) swimming abnormally. Remaining eggs apparently died in early development. Reason for death unknown at present, warm S/L temperatures or other S/C factors could have been the cause etc. Flask B control was normal development & behavior.

j) Frog Health Check:
Time: 4|00:05 Ck #1
Notes:
Frogs looked great. Did acrobatics

k) Reentry Fix: 7/09:12 Actual
Time:
Notes:

Key Mission Data - FEE
SL-J (cont'd)

l) Spacelab Closeout:
Time: FEU centrifuge off 7/08:45 on 7/08:50 } Fixation chambers removed
Notes:
Live Chambers removed from centrifuge ~~7/08:50~~ 7/09:27
~ 7/09:45 AFB transferred ~ 7:05pm Sat

m) PAO:
Time of interview or press conference and press contact:

Press conf. #1 ~ 9/14

Press conf #2 9/19 2pm CDT

n) Hardware Performance:
FEU: Excellent temp control
1 anomaly with centrifuge, MDG centrifuge began to slow a bit 0.9g → 0.8g. Switched to backup sensor & problem disappeared
Returned control to 60 rpm 0.9–1.0g

GPWS: 1 snap became loose on left handle. Crew tightened it, no further problems.

R/IM: Excellent Ops: used by RCR @ 15°C during mission