NASA Life Sciences Data Archive (http://lsda.jsc.nasa.gov)
Investigator name:Kenneth S. Kosik
Mission (Payload): STS-90 (Neurolab)
Experiment title (ID): Spatial Learning and Memory is Preserved in Rats After Early Development in a Microgravity Environment
File name/Inventory ID: MWMP13/14.pdf

Morris Water Maze Data Sheet/NASA Project

WT 29°

Subject Number ~~7~~ 10

Investigator Steward / Temple

Group P14 R+30 FLT

Data Entered: Yes or No?

length multiplier 0.16

LATENCY

distance

Latency

DATE	R+ Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average	WT
5-6	3 ~~25~~		1 587.71 / ~~3673.18~~ 60.93 C N	6 50.38 / ~~450.50~~ 3003.13 C,S,d E	11 85.22 / ~~532.63~~ 8.02 S,n S	16 133.41 / ~~833.81~~ 11.59 C,S,n N	32.73 / 321.71	29°C
5-7	4 ~~26~~		1 C,S,n 542.45 / 60. S	6 C,S,d 542.4 / 57.75 E	11 n 31.05 / 2.47 W	16 n 25.09 / 2.09 N	30.58 / 285.15	25-26°C
5-8	5 ~~27~~		1 C,S,n 149.81 / 13.46 N	6 n 34.84 / 2.36 W	11 d,n 61.52 / 5.22 S	16 n 54.45 / 4.56 E	6.40 / 75.16	26°C
5-9	6 ~~28~~	~~120~~ 124	1 159.34 / 13.35 S	6 11.75 / 0.99 E	11 XNT / 1.50 N	16 51.62 / 4.40 W	5.06 / 74.28	27°C
5-10	7 ~~29~~		1 29.02 / 2.91 S	6 18.09 / 1.59 N	11 29.97 / 3.08 W	16 73.22 / 6.70 E	3.57 / 37.58	

21 Probe Trial : From South
CO=5164.97

Morris Water Maze Data Sheet/NASA Project

Subject Number 11

Investigator Steward / Temple

Group R+30 P14 FLT

Data Entered: Yes or No?

DATE	Rt Day	Weight (g)	Trial 1 (invalid)	Trial 2 - 5'	Trial 3	Trial 4	Average
5-6	3 ~~25~~		2 ~~6175.45~~ (C) / 60.93 N	7 * 3031.46 424.96 60 c,s W	12 419.67 ~~2622.95~~ / 52.86 s,d S	17 278.13 ~~1738.34~~ / 36.59 n,L E	52.36 / 374.25
5-7	4 ~~26~~		2 99.68 / 8.35 n N	7 c,n 84.67 / 8.41 E	12 n 19.79 / 1.70 W	17 n 38.76 / 4.12 S	5.65 / 60.73
5-8	5 ~~27~~		2 n 47.52 / 4.45 E	7 L,n 106.67 / 9.78 W	12 n,L,d 240.37 / 19.73 N	17 n,L 200.31 / 18.08 S	13.01 / 148.72
5-9	6 ~~28~~	123	2 92.01 / 9.23 W	7 611.99 / 52.14 S	12 224.81 / 19.73 E	17 *NT / 12.97 N	23.52 / 309.60
5-10	7 ~~29~~		2 30.60 / 3.35 E	7 40.09 / 5.66 N	12 44.47 / 4.89 W	17 14.76 / 1.54 S	3.86 / 32.48

22 Probe Trial: South

CD = 3756.04

Morris Water Maze Data Sheet/NASA Project

Subject Number 12

Investigator Steward /Temple

Group R+30 P14 FLT

Data Entered: Yes or No?

DATE	R+ Day	Weight (g)	4 Trial 1	9 Trial 2	14 Trial 3	19 Trial 4	Average
5-6	3 ~~25~~		~~3~~ invalid c,s / 60 S	~~8~~ 594.28 c,s,d ~~3714.27~~ / 60 N	~~13~~ 570.48 c,s,d ~~3565.52~~ / 60 E	~~18~~ 453.98 s ~~2837.25~~ / 60 W	60.00 / 539.58
5-7	4 ~~26~~		~~4~~ circling c ~~60~~ N	9 c,s,d 509.16 / 60 S	14 s,d,n 360.78 / 46.98 E	19 c,s,d 487.97 / 60. W	56.75 / 452.64
5-8	5 ~~27~~		~~4~~ 3 c,s,n 261.07 / 35.71 E	~~9~~ 8 NT* n? 1.59 W	~~14~~ ~~13~~ 13 n 27.85 / 3.24 N	~~19~~ 18 d,n 68.29 / 7.09 S	11.91 / 119.07
5-9	6 ~~28~~	127	3 17.13 / 2.20 E	8 215.21 / 23.46 S	13 13.13 / 1.98 W	18 18.37 / 2.69 N	15.17 / 65.96
5-10	7 ~~29~~		3 149.70 / 17.47 E	8 168.51 / 19.95 W	13 47.04 / 1.21 S	18 28.90 / 3.46 N	10.52 / 98.54

23 Probe Trial: from South

OD= 3341.86

Morris Water Maze Data Sheet/NASA Project

Subject Number 13

Investigator Steward / Temple

Group R+30 P14 FLT

Data Entered: Yes or No?

DATE	R+ Day	Weight (g)	3 Trial 1	8 Trial 2	13 Trial 3	18 Trial 4	Average
5-6	3 ~~25~~		~~14~~ 717.20 ~~4482.52~~ / 60. C,S E	~~9~~ 600.24 ~~3876.5~~ / 60. C,S,d S	~~14~~ 167.61 ~~1047.58~~ / 14.45 ~~3876~~ C,S,d N	~~18~~ 444.27 ~~2776.69~~ / 40.44 C,S,d W	43.72 487.33
5-7	4 ~~26~~		3 c,d 116.47 / 9.12 N	8 d,n 5.26 / 1.32 E	13 n,L 218.72 / 17.69 S	18 n 45.86 / 4.07 W	8.05 96.58
5-8	5 ~~27~~		~~3~~ 4 NJ* 1.40 n N	~~8~~ 9 n 13.45 / 2.36 N	~~13~~ 14 d,n 59.67 / 7.75 S	~~18~~ 19 n 8.45 / 1.10 E	3.15 27.19
5-9	6 ~~28~~	122	4 32.68 / 4.34 W	9 36.25 / 5.93 S	14 101.48 / 13.24 N	19 8.56 / 1.26 E	6.19 44.74
5-10	7 ~~29~~		4 44.54 / 5.33 S	9 75.60 / 10.00 W	14 20.22 / 2.75 N	19 8.16 / 1.21 E	4.82 37.13

24 Probe Trial : from South

OO = 5090.34

Morris Water Maze Data Sheet/NASA Project

Subject Number 14

Investigator Steward / Temple

Group R+30 P14 FLT

Data Entered: Yes or No?

DATE	R+ Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-6	3 ~~25~~		5 591.63 c,s ~~3697.72~~ / 60 W	10 557.13 c,s ~~3482.07~~ / 60 E	15 ~~555.05~~ d,n ~~344.00~~ / 4.95 S	20 ~~155.47~~ d,n ~~971.86~~ / 12.14 N	34.27 / 339.82
5-7	4 ~~26~~		5 c,s,d 156.75 / 13.30 S	10 n 26.67 / 2.31 N	15 N.T. / 11.06 ~~X~~ E	20 36.15 / ~~3.03~~ 3.30 n W	7.49 / 73.19
5-8	5 ~~27~~		5 n,c 126.05 / 13.13 S	10 n 34.29 / 4.18 W	15 n,c 76.02 / 7.64 E	20 n 21.92 / 2.75 N	6.93 / 64.57
5-9	6 ~~28~~	100	5 ~~155~~.55 / 17.14 W	10 295.61 / 30.16 E	15 146.95 / 14.34 N	20 23.13 / 2.86 S	16.13 / 155.31
5-10	7 ~~29~~		5 32.69 / 3.52 W	10 83.83 / 9.23 S	15 74.80 / 8.35 E	20 41.48 / 4.56 N	6.42 / 58.20

25 Probe Trial : from South

CD = 3968.67

Morris Water Maze Data Sheet/NASA Project

Subject Number 23

Investigator P14 VIV

Group Steward / Temple

Data Entered: Yes or No?

DATE	Rt Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average	WT
5-13	10 ~~25~~	see ofa	25 bumped 343.75 / 34.73 c,d W	~~33~~ 29 304.98 / 42.53 s,d,n E	~~41~~ 33 d,n 82.99 / 8.41 S	~~49~~ 37 n 22.39 / 2.80 N	22.12 / 188.53	32 ~~33~~ °C
5-14	11 ~~26~~	"	25 * / 60 s,L,n S	29 n 53.84 / 7.91 W	33 n 95.25 / 14.34 N	37 n 11.63 / 2.09 E	21.09 / 53.57	29-30 ~~31~~ °C
5-15	12 ~~27~~		25 s,L,n 169.91 / 22.36 S	29 n 18.80 / 3.08 E	33 n 21.39 / 4.07 W	37 * n ~~21.37~~ / 4.07 N	8.40 / 57.87	31°C
5-16	13 ~~28~~	141	51 27.82 / 4.40 N	55 ~~70.02~~ * / 8.63 S	59 24.99 / 3.41 W	63 21.27 / 3.30 E	4.94 / 36.03	27-28°C
5-17	14 ~~29~~		53 * NT n 18.59 S	57 40.40 / 6.15 W	61 160.63 / 21.65 N	65 78.43 / 8.96 -1.5 ft E	13.84 / 87.15	

remote failure

Probe Trial # 69 South

Morris Water Maze Data Sheet/NASA Project

Subject Number 24

Investigator Steward / Temple

Group P14 V1V

Data Entered: Yes or No?

DATE	R4 Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-13	10 ~~25~~		26 * / 60 c,s,d [E]	34 30 513.96/60 c,s [N]	42 34 s,d,n 131.84/13.79 [W]	50 38 n 13.81/1.54 [S]	33.83 / 219.87
5-14	11 ~~26~~		26 n 38.79 / 5.55 [N]	30 s,n 102.91/12.58 [W]	34 n * / 6.08 EE [S]	38 n,L 115.80/11.76 [E]	8.99 / 85.81
5-15	12 ~~27~~		26 * NT / 4.94 [S]	30 n 55.18 / 6.87 [N]	34 n 18.06/2.03 [W]	38 n,L 31.58/3.79 [E]	4.41 / 34.98
5-16	13 ~~28~~	149	52 60.29/7.86 [W]	56 26.63/3.57 [E]	60 40.43/6.10 [N]	64 52.15/7.47 [S]	6.25 / 44.88
5-17	14 ~~28~~		54 27.54/3.35 [W]	58 16.35/2.09 [E]	62 55.46/7.64 [S]	66 48.44/4.78 [N]	4.47 / 36.95

Probe Trial #70 South

Morris Water Maze Data Sheet/NASA Project

Subject Number 25

Investigator Steward / Temple

Group P14 Viv

Data Entered: Yes or No?

circling / darting at 45 sec.

DATE	Rt Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-13	10 ~~25~~		27 NT / ~~C,d 00~~ E	~~46~~ 31 s,d 414.08 / 57.80 N	~~58~~ 35 n 14.80 / 2.20 S	~~64~~ 39 s,d,n 158.67 / 23.08 W	35.79 ~~195.85~~
5-14	11 ~~26~~		27 n 16.97 / 3.08 S	31 n,L 199.86 / 28.35 N	35 n 174.36 / 18.52 W	39 n 44.82 / 8.30 E	14.56 109.00
5-15	12 ~~27~~		27 n 12.01 / 1.65 S	31 n 9.91 / 1.54 E	35 n 27.37 / 4.56 N	39 d,n 46.09 / 5.88 W	3.41 23.85
5-16	13 ~~28~~	135	53 14.08 / 1.70 E	57 77.90 / 10.27 N	61 63.61 / 8.57 W	~~68~~ 172.85 / 22.53 S	10.77 82.11
5-17	14 ~~29~~		55 47.14 / 5.55 W	59 19.92 / 2.47 E	63 27.64 / 3.13 N	67 45.20 / 5.38 S	4.13 34.98

Probe Trial #71 South

Morris Water Maze Data Sheet/NASA Project

Subject Number 26

Investigator _____

Group P14 VIV

Data Entered: Yes or No?

DATE	R+ Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-13	10 ~~25~~		28 C,S 505.79/60 E	36 32 s,d 211.01/51.04 N	44 34 s,d,n 69.42/9.07 S	52 40 n 29.29/83.85 W	30.99 203.88
5-14	11 ~~26~~		28 n 15.56/1.65 E	32 d,n 41.86/3.90 W	36 d,n 53.73/6.81 S	40 d,n 110.17/14.34 N	6.68 55.33
5-15	12 ~~27~~		28 n 21.04/1.98 W	32 *NT 17.44 E	36 n,L 56.76/7.09 S	40 n,L 173.41/20.00 N	11.62 83.74
5-16	13 ~~28~~	142	54 20.31/1.65 N	58 18.85/1.98 E	62 31.30/3.96 W	66 22.08/2.53 S	2.53 23.14
5-17	14 ~~29~~		56 *11.47 1.21 W	60 23.63/2.36 N	64 14.46/1.98 S	68 16.05/1.92 E	1.87 18.05

couldn't get button depressed for tracking

Probe Trial #72 South

Morris Water Maze Data Sheet/NASA Project

Subject Number 27

Investigator _____

Group P14 V1V

Data Entered: Yes or No?

DATE	Rt Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average	WT
5-13	10 ~~25~~		41 c,s,d 197.24/25.60 E	45 n 24.73/3.74 N	49 s,d 452.46/60 W	n 18.75/3.41 S	23.19 173.30	32°C
5-14	11 ~~26~~		n 22.02/2.03 E	d,n,c 74.21/9.95 W	n 26.53/4.07 N	n,c 140.38/19.12 S	8.79 65.79	31°C
5-15	12 ~~27~~		n 41.12/6.65 W	n 57.69/8.74 S	n 21.71/3.57 N	n,d,c 261.99/37.25 E	14.05 95.63	31°C
5-16	13 ~~28~~	162	67 16.86/2.64 E	71 44.17/7.36 N	75 45.34/6.10 S	79 29.87/4.67 W	5.19 34.06	27-28°C
5-17	14 ~~29~~		73 55.70/9.01 W	77 16.75/2.86 E	81 28.58/4.34 N	85 25.28/4.78 S	5.25 31.58	

Probe Trial #89 South

Morris Water Maze Data Sheet/NASA Project

Subject Number 28

Investigator _____

Group P14 VIV

Data Entered: Yes or No?

DATE	Rt Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-13	10 ~~25~~		30 42 c,s 471.37/60 N	38 46 n,L 46.15/9.95 E	46 50 d,n 149.44/17.75 S	54 s,n,L 428.40/60 W	36.93 273.84
5-14	11 ~~26~~		42 n 27.91/4.51 N	46 n 15.56/3.79 E	50 n 41.03/8.24 W	54 n 17.92/3.35 S	4.97 25.61
5-15	12 ~~27~~		42 s,n,L 209.51/ 32.91 W	46 n 26.55/3.57 N	50 ~~didn't train right~~ n? 2.36 S	54 ~~57.38~~ * n 3.74 E	10.65 97.81
5-16	13 ~~28~~	141	68 19.81/2.69 N	72 14.85/2.03 S	76 86.82/11.21 W	80 24.13/3.08 E	4.75 36.40
5-17	14 ~~29~~		74 11.83/1.43 S	78 4 16.28/2.25 N	82 72.40/10.33 W	86 11.78/1.48 E	3.87 28.07

Probe Trial #90 South

Morris Water Maze Data Sheet/NASA Project

Subject Number 29

Investigator _____

Group P14 VIV

Data Entered: Yes or No?

DATE	RT Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-13	10 ~~25~~		43 C,S 464.90/60 E	47 d,n 108.30/16.15 N	51 S,n,L 187.04/26.04 S	55 n 72.11/11.21 W	28.35 208.09
5-14	11 ~~26~~		43 n 21.58/1.76 E	47 n 27.04/3.46 W	51 n 23.95/4.07 S	55 XNF 5.18 N	3.62 24.19
5-15	12 ~~27~~		43 n 29.50/3.35 W	47 didn't track right n 1.48 S	51 n,L 76.26/10.55 N	55 S,n,L 440.06/53.35 E	17.18 161.94
5-16	13 ~~28~~	135	69 119.26/13.90 S	73 25.36/2.42 N	77 20.36/1.87 W	81 37.84/4.34 E	5.63 50.71
5-17	14 ~~29~~		75 17.36/1.70 S	79 29.12/3.96 W	83 31.75/4.18 E	87 56.94/6.98 N	4.21 33.79

Probe Trial #91 Scrath

Morris Water Maze Data Sheet/NASA Project

Subject Number 30

Investigator _____

Group P14 Viv

Data Entered: Yes or No?

DATE	Rt Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-13	10 ~~25~~		32 44 c,s,d. 491.36/60 S	40 48 n 36.49/5.05 N	46 52 n 38.19/6.54 W	56 n,L 100.27/8.46 E	20.01 / 166.58
5-14	11 ~~26~~		44 s,n,L 387.32/60 N	48 d,n 180.58/22.20 E	52 n 19.10/2.91 W	56 n 13.62/1.87 S	21.75 / 150.16
5-15	12 ~~27~~		44 d,n 50.42/6.76 W	48 s,n,L 169.33/21.65 S	52 n,L 199.60/26.21 E	56 n 25.62/4.01 N	14.66 / 111.24
5-16	13 ~~28~~	137	70 298.79/41.26 N	74 * 26.60/5.05 S	78 12.64/1.37 E	82 33.44/4.89 W	13.14 / 92.87
5-17	14 ~~29~~		76 35.01/5.60 E	80 32.23/5.33 W	84 * ~~44.34~~/1.76 S	88 26.91/3.90 N	4.15 / 31.38

* trial started - didn't pick up black mark right away for tracking

Probe Trial #92 South

Morris Water Maze Data Sheet/NASA Project

Subject Number 39

Investigator _____

Group P14 AGC

Data Entered: Yes or No?

DATE	Rf ~~Day~~	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average	W.T.
5-14	11 ~~25~~		51 s,d 57.29/5.38 bumped E	64 62 c,s,d 515.08/60 s,c, W	68 67 s 83.74/11.54 s, N	69 72 s,n 144.87/18.08 s,d S	23.75 200.25	29-30°C
5-15	12 ~~26~~	119	~~35~~ 57 d,n 44.07/6.98 W	62 s,d,n 156.90/20.05 E	67 c,d,n 118.32/15.55 N	72 n 16.29/2.20 S	11.20 83.90	31-32°C
5-16	13 ~~27~~		31 n 14.72/2.20 S	36 * -1.5 n,d 86.6/68.6 8.30 E	41 n 33.40/4.18 N	46 n,L 112.55/12.53 W	6.80 57.32	31°C
5-17	14 ~~28~~	128	33 84.03/10.44 E	38 183.16/24.62 N	43 35.17/4.56 W	48 21.56/3.30 S	10.73 80.98	28°C
5-18	15 ~~29~~		33 31.30/4.45 N	38 24.07/3.57 E	43 20.35/2.53 W	48 23.69/3.08 S	3.41 24.85	

Probe Trial #53 South

CD = 7603.06

Morris Water Maze Data Sheet/NASA Project

Subject Number 40

Investigator _____

Group P14 AGC

Data Entered: Yes or No?

DATE	Rt Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-14	11 ~~25~~		~~62~~ 58 C,S 642.17/60 scalloping N	~~64~~ ~~66~~ 63 *NT / 46.21 S,N W	~~70~~ ~~66~~ 68 507.56 / 53.85 S,N,d, S	~~74~~ ~~70~~ 73 12.43/1.59 n E	40.41 / 387.39
5-15	12 ~~26~~		58 S,n 142.28/17.14 E	63 n 28.60/3.02 W	68 n 47.93/5.16 S	73 n 20.45/1.70 N	6.76 / 59.82
5-16	13 ~~27~~		34 n 39.31 / 3.63 E	39 n,d 84.79/8.79 N	42 n,d 40.85 / 3.90 S	47 n 19.72/1.81 W	~~4.53~~ / 46.17
5-17	14 ~~28~~	132	34 18.32/2.58 E	39 132.90/15.77 S	44 18.82/1.59 N	49 28.69/3.24 W	5.80 / 49.68
5-18	15 ~~29~~		34 29.05/3.35 S	39 17.39/2.58 E	44 12.78/1.54 W	49 34.97/4.84 N	3.08 / 23.55

Probe Trial #~~5~~ 54 South

CD = 6802.72

Morris Water Maze Data Sheet/NASA Project

Subject Number 41

Investigator _____

Group P14 AGC

Data Entered: Yes or No?

DATE	~~Day~~ RT	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-14	11 ~~25~~		59 513.97/60 c,d,s N	64 n 51.03/7.80 S	69 204.73/29.56 c,s,d,N W	74 *NT/12,31 S,d E	27.42 256.58
5-15	12 ~~26~~		59 d,n 80.10/11.04 S	64 n,c 103.43/16.76 N	69 n,c 146.28/21.10 E	74 n 35.82/5.44 W	13.59 91.41
5-16	13 ~~27~~		37 n 73.59/8.63 S	38 n 107.37/12.09 E	43 n 26.21/3.68 N	48 n,c 180.71/22.91 N	11.83 ~~35~~ 96.97
5-17	14 ~~28~~	111	35 71.74/11.04 N	40 *NT n 28.93 S	45 79.24/13.52 E	50 28.13/4.56 W	14.51 57.70
5-18	15 ~~29~~		35 45.35/7.58 S	40 29.59/4.18 W	45 108.67/14.73 N	50 136.90/17.25 E	10.94 80.13

Probe Trial # 55 South

OD = 7086.99

Morris Water Maze Data Sheet/NASA Project

Subject Number 42

Investigator _____

Group P14 AGC

Data Entered: Yes or No?

DATE	P+ ~~Day~~	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-14	11 ~~25~~		60 572.02/60 C,S, W	64 65 306.61/37.47 D,N N	68 70 56.69/4.62 D,n E	75 12.02/1.21 n S	25.83 236.84
5-15	12 ~~26~~		60 * NT 13.28 N	65 d,n 142.21/15.33 S	70 n 27.02/3.74 E	75 n 21.39/2.09 W	8.61 63.54
5-16	13 ~~27~~		34 n,L 48.06/4.84 N	39 n,L 203.17/23.35 S	44 n 18.70/1.76 W	45 d,n 84.65/9.84 E	9.95 88.65
5-17	14 ~~28~~	134	36 465.27/50.98 W	41 48.17/5.38 E	46 66.60/8.74 N	51 80.15/10.93 S	20.51 165.05
5-18	15 ~~29~~		36 88.79/9.34 E	41 * NT 3.97 N	46 23.33/2.25 W	51 13.24/1.76 S	4.33 41.79

Probe Trial # 56 South

CD= 6961.19

Morris Water Maze Data Sheet/NASA Project

Subject Number 43

Investigator _____

Group P14 AGC

Data Entered: Yes or No?

DATE	~~P1~~ Day	Weight (g)	Trial 1	Trial 2	Trial 3	Trial 4	Average
5-14	11 ~~25~~		61 491.80 / 60.93 c,s, N	66 92.35 / 11.87 N,L W	71 466.92/60 S,C,d S	76 60.46/7.91 d,n E	34.96 / 277.88
5-15	12 ~~26~~		61 n 17.03 / 2.03 E	66 n 45.91 / 6.96 W	71 n,L,c 248.61 / 35.60 S	76 n,L 147.80 / 22.75 N	16.84 / 114.84
5-16	13 ~~27~~		35 n,L 75.20 / 10.22 W	40 *NT / 16.15 S	45 n 32.77 / 5.33 N	50 n 54.24 / 8.24 E	10.09 / 54.07
5-17	14 ~~28~~	130	37 61.57 / 6.92 N	42 13.40 / 1.81 E	47 *NT / 4.75 S	52 *NT / 4.69 W	4.54 / 37.49
5-18	15 ~~29~~		37 21.24 / 2.75 N	42 36.71 / 6.37 S	47 * 10.45 / 1.70 E	52 38.24 / 6.37 W	4.30 / 26.66

Probe Trial # 57 South

CD = 6187.85