NASA Life Sciences Data Archive
Investigator name: Kenneth Baldwin
Mission (Payload): STS-58 (SLS-2)
Experiment title (ID): Effects of Zero-Gravity Exposure on Biochemical and Metabolic Properties of Skeletal Muscle (178127)
File name/Inventory ID: Preflight data folder

Fadias Work

MHC mRNA density after correction to 28S.

	I	IIA	IIX	IIB
SOL				
C:	34.2±1.8	6.67±0.36	2.94±1.90	0.43+0.26
F:	34.8±3.0	4.54±1.86	28.5±3.9	1.25+0.49
VI				
C:	17.2±1.3	21.9±0.2	11.6±1.8	8.90±3.16
F:	11.7±0.5	13.4±1.3	26.2±1.4	25.7±6.5
PLANT				
C:	0.99±0.17	1.24±0.20	32.2+2.8	26.4+3.4
F:	0.85+0.13	1.43+0.17	38.0±4.5	38.6±6.4
WMG				
C:	Not detected	0.64±0.06	4.77±0.54	99.3±4.2
F:	Not detected	0.73±0.12	5.42±2.00	117.0+5.6
MMG				
C:	2.49±0.56	1.04±0.10	27.1+3.1	50.8+5.1
F:	2.74±0.41	1.01±0.09	19.6±2.0	62.8±3.0
RMG				
C:	2.35±0.37	4.82±0.46	42.3±1.9	15.7±2.6
F:	3.14±0.71	5.47±0.88	45.4±1.3	40.9±3.0
WVL				
C:	Not detected	Not detected	1.69±0.31	72.7±3.9
F:	Not detected	Not detected	1.25±0.18	82.5±8.0
MVL				
C:	0.57±0.15	0.84±0.30	12.3±0.8	48.8±4.5
F:	0.29±0.15	0.55±0.09	9.76±1.17	62.8+3.4
RVL				
C:	2.56±1.26	6.59±1.39	32.4±2.6	43.2±3.5
F:	7.35±1.54	6.32±0.69	36.7+4.7	79.2+6.2
TA				
C:	0.39±0.08	0.73±0.08	3.83±0.37	41.5±4.6
F:	0.58±0.17	1.46±0.32	6.22±1.47	65.4±6.1

Values are means±SEM
Exposure times: I: Sol, VI, &RMG: 4 hours; MVL: 3 DAYS; all else 15 hours
IIA: WMG, 2 days, all else 15 hours
IIX: 4 hours for all
IIB: Sol & VI: 15 hours; all else 4 hours.
Not detected signal was not detected after 3 days exposure time.

	sol-I-4h	soll-28S	II/28S(4h)	2a-15h	sol-2a-2d	sol2A-28S	IIA/28S(15h)	IIA/28S(2d)
N1	1132	18.99	66.63	91.47	313.7	17.58	5.20	17.84
N2	1416	34.99	40.47	97.69	348.6	33.58	2.91	10.39
N3	1469	24.41	60.18	146.8	565.1	28.08	5.23	20.12
MEAN	**1339.00**	**25.46**	**55.76**	**111.99**	**409.20**	**26.41**	**4.45**	**16.12**
SD	**181.22**	**9.05**	**13.63**	**30.31**	**136.15**	**8.13**	**1.33**	**5.08**
SE	**128.14**	**6.40**	**9.64**	**21.43**	**96.27**	**5.75**	**0.94**	**3.60**
			I/28S(4h)				IIA/28S(15h)	IIA/28S(2d)
F1	943.3	32.67	28.87	94.78	223.7	31.35	3.02	7.14
F2	1127	39.72	28.37	90.32	290.3	25.23	3.58	11.51
F3	995.3	27.98	35.57	36	115.2	28.05	1.28	4.11
F4	1161	28.94	40.12	308.9	926.1	28.26	10.93	32.77
F5	1126	27.46	41.01	123.1	379.2	31.85	3.88	11.91
MEAN	**1070.52**	**31.35**	**34.79**	**130.62**	**386.90**	**28.95**	**4.54**	**13.49**
SD	**95.26**	**5.10**	**6.00**	**104.52**	**316.46**	**2.71**	**3.71**	**11.25**
SE	**47.63**	**2.55**	**3.00**	**52.26**	**158.23**	**1.35**	**1.86**	**5.63**
C1	1297	42.81	30.30	332.4	1031	40.62	8.18	25.38
C2	1272	38.19	33.31	200.9	697.3	30.71	6.54	22.71
C3	1353	37.51	36.07	149.2	532.7	23.35	6.39	22.81
C4	1253	31.93	39.24	165.4	597.2	29.68	6.25	20.12
C5	1121	30.18	37.14	199.4	650.5	29.43	6.78	22.10
C6	778.7	26.98	28.88	194.2	695	33.13	5.66	20.98
MEAN	**1179.12**	**34.60**	**34.16**	**210.25**		**31.16**	**6.67**	**22.35**
SD	**210.68**	**5.90**	**4.05**	**62.81**		**5.65**	**0.80**	**1.81**
SE	**94.22**	**2.64**	**1.81**	**28.09**		**2.53**	**0.36**	**0.81**

	sol-2b-15h	SOL-IIB-3d	sol2b-28S	IIB/28S(15h)	IIB/28S(3d)	sol-2x-4h	sol2x-28S	IIb/28S(4h)
N1	1.051	5.643	11.86	0.09	0.48	0	10.49	0.00
N2	1.875	2.781	25.33	0.07	0.11	0	19.98	0.00
N3	2.694	6.829	25.79	0.10	0.26	33.67	24.05	1.40
MEAN	**1.87**	**5.08**	**20.99**	**0.09**	**0.28**	**11.22**	**18.17**	**0.47**
SD	**0.82**	**2.08**	**7.91**	**0.02**	**0.18**	**19.44**	**6.96**	**0.81**
SE	**0.68**	**1.47**	**5.60**	**0.01**	**0.13**	**13.75**	**4.92**	**0.57**
				IIB/28S(15h)	IIB/28S(3d)			IIb/28S(4h)
F1	61.15	262.9	27.56	2.22	9.54	704.9	22.37	31.51
F2	74.53	286.1	31.53	2.36	9.07	1144	28.14	40.65
F3	21.66	106.1	24.87	0.88	4.27	856.9	26	25.27
F4	14.57	31.68	27.89	0.52	1.14	495.9	24.24	20.46
F5	7.904	34.69	28.19	0.28	1.23	669.6	27.05	24.75
MEAN	**36.00**	**144.29**	**28.01**	**1.25**	**5.05**	**734.26**	**25.56**	**28.63**
SD	**29.86**	**122.81**	**2.37**	**0.97**	**4.09**	**242.76**	**2.29**	**7.84**
SE	**14.93**	**61.41**	**1.19**	**0.49**	**2.04**	**121.38**	**1.15**	**3.92**
C1	7.093	10.37	32.53	0.22	0.32	299.6	25.94	11.55
C2	9.337	27.21	28.5	0.33	0.95	10.99	25.61	0.43
C3	4.099	6.524	31.88	0.13	0.20	29.09	30.18	0.96
C4	0.459	8	32.75	0.01	0.24	30.14	25.38	1.19
C5	7.352	12.42	28.07	0.26	0.44	43.03	23.34	1.84
C6	46.17	189.8	28.71	1.61	6.61	33.09	20.22	1.84
MEAN	**12.42**	**42.39**	**30.41**	**0.43**	**1.46**	**74.32**	**25.11**	**2.94**
SD	**16.82**	**72.60**	**2.20**	**0.59**	**2.54**	**110.65**	**3.28**	**4.25**
SE	**7.52**	**32.47**	**0.98**	**0.26**	**1.13**	**49.57**	**1.47**	**1.90**

	VI-I-4h	VI-I-28S	I/28S(4h)	vi-2a-15h	vi-2a-2d	VI-2a-28S	IIA/28S(15h)	IIA/28S(2d)
N1	511.5	35 41	14.45	804.4	2209	18.07	44 52	122.25
N2	691.1	35.93	19.23	739 1	2103	33.59	22.00	62.61
N3	748.3	26.4	28.34	576 9	1896	24.38	23.68	77.83
MEAN	**650.30**	**32.58**	**20.67**	**706.80**	**2069.33**	**25.34**	**30.07**	**87.56**
SD	**123.56**	**5.36**	**7.06**	**117.14**	**159.19**	**7.81**	**12.64**	**30.99**
SE	**87.37**	**3.79**	**4.99**	**82.83**	**112.57**	**5.52**	**8.87**	**21.91**
			I/28S(4h)				IIA/28S(15h)	IIA/28S(2d)
F1	342.6	30.9	11.09	396 2	1358	32 28	12 27	42.07
F2	432.3	33.83	12.78	505	1771	32 37	15 60	54.71
F3	433.4	34.14	12.69	457.6	1666	30.06	15 22	55.42
F4	274.5	25.67	10.69	389.2	1482	26.17	14 87	56.63
F5	399.2	35 17	11 35	331	1239	36 73	9 01	33.73
MEAN	**376.40**	**31.94**	**11.72**	**415.80**	**1503.20**	**31.52**	**13.40**	**48.51**
SD	**67.86**	**3.85**	**0.96**	**67.06**	**217.69**	**3.85**	**2.78**	**10.15**
SE	**33.93**	**1.92**	**0.48**	**33.53**	**108.84**	**1.92**	**1.39**	**5.07**
C1	536.6	37 48	14 32	713,1	2026	33.69	21.17	60.14
C2	458.3	31 27	14.66	859.1	2507	33 46	25.68	74.93
C3	721.9	43.67	16.53	1042	2964	35.95	28 98	82.45
C4	668.2	33.6	19.89	609.5	2007	33.36	18.27	60.16
C5	690.9	32 83	21 17	583.9	1867	31.15	18.74	59.94
C6	562.2	34 12	16.48	597.3	1930	31.78	18.79	60.73
MEAN	**606.35**	**35.46**	**17.17**	**734.15**	**2216.83**	**33.23**	**21.94**	**66.39**
SD	**103.01**	**4.52**	**2.78**	**183.12**	**430.71**	**1.68**	**4.42**	**9.82**
SE	**46.07**	**2.02**	**1.25**	**81.89**	**192.62**	**0.75**	**1.98**	**4.39**

	vi-2b-15	vi2b-4h	Vi-2b-28S	IIB/28S(15h)	IIIB/28S(4H)	Ivi-2x-4h	Vi-2x-28S	[illegible]28S
N1	141.3	15.8	13.34	10.59	1.18	210.1	22.98	9.14
N2	32.96	5.295	32.01	1.03	0.17	86	32.58	2.64
N3	0	0	23.46	0.00	0.00	82.56	29.83	2.79
MEAN	58.09	7.03	22.94	3.87	0.46	126.22	28.40	4.86
SD	73.93	8.04	9.35	5.84	0.64	72.66	4.92	3.71
SE	52.27	5.69	6.61	4.13	0.45	51.38	3.48	2.63
				IIB/28S(15h)	IIIB/28S(4h)			IIX/28S(4h
F1	1307	171.3	33.31	39.24	5.14	1006	35.18	28.60
F2	397.2	38.43	27.42	14.49	1.40	898.1	37.65	23.85
F3	321.8	38.16	34.36	9.37	1.11	963	38.05	25.31
F4	802.9	78.65	27.19	29.53	2.89	845.5	35.53	23.60
F5	990.5	85.03	27.79	35.64	3.10	1164	40.03	29.58
MEAN	763.88	82.51	30.01	25.65	2.73	979.32	37.29	26.23
SD	411.63	54.36	3.51	13.13	1.61	129.78	1.99	2.70
SE	205.81	27.18	1.76	6.56	0.80	64.89	0.99	1.35
C1	640.7	57.16	35.63	17.96	1.60	551	36.58	15.08
C2	243	28.82	32.47	7.48	0.89	322.8	38.14	8.46
C3	120.3	10.84	31.1	3.87	0.35	583.9	42.89	13.61
C4	575.5	60.02	34.69	16.59	1.73	481.5	38.28	12.56
C5	247.6	21.93	33.07	7.49	0.68	579.9	38.65	15.00
C6	0	0	28.07	0.00	0.00	195.7	38.85	5.04
MEAN	304.52	29.80	32.51	8.90	0.87	452.47	38.90	11.63
SD	253.04	24.38	2.70	7.07	0.69	159.25	2.11	4.04
SE	113.16	10.90	1.21	3.16	0.31	71.22	0.95	1.81

PLANT.XLS

	plant-I-15h	I-3d	I-28S	I/28S(15h)	I/28S(3d)	P2a-15h	2a-2d	IIA-28S	IIA/28S(15h	IIA/28S(2d)
F1	25.67	71.37	28.02	0.99	2.74	27.52	154.3	27.42	1.00	5.63
F2	22.99	124.8	28.16	0.82	4.43	41.8	154.1	27.85	1.50	5.53
F3	17.37	43.47	29.95	0.58	1.45	41.38	176.3	32.83	1.26	5.43
F4	34.25	104.3	28.29	1.21	3.69	42.79	181.2	28.99	1.48	6.25
F5	17.56	73.98	26.78	0.66	2.76	54.78	168.5	28.59	1.92	5.89
MEAN	**23.57**	**83.58**	**27.84**	**0.85**	**3.02**	**41.65**	**167.28**	**29.14**	**1.43**	**5.76**
SD	**6.95**	**31.54**	**1.52**	**0.26**	**1.12**	**9.66**	**12.83**	**2.15**	**0.34**	**0.33**
SE	**3.48**	**15.77**	**0.76**	**0.13**	**0.56**	**4.83**	**6.42**	**1.08**	**0.17**	**0.16**
C1	25.95	120.2	34.42	0.75	3.49	34.12	152.8	32.81	1.04	4.66
C2	24.68	127	32.58	0.76	3.90	47.23	160.4	31.44	1.50	5.10
C3	51.08	221.1	30.27	1.69	7.30	54.16	216.8	29.4	1.84	7.37
C4	35.38	131.6	30.15	1.17	4.37	39.35	140	31.83	1.24	4.40
C5	22.8	57.34	26.14	0.87	2.19	40.47	154.1	31.7	1.28	4.86
C6	24.04	120.2	34.77	0.69	3.46	16.58	74.07	31.16	0.53	2.38
MEAN	**30.66**	**129.61**	**31.39**	**0.99**	**4.12**	**38.65**	**149.70**	**31.39**	**1.24**	**4.79**
SD	**10.98**	**52.50**	**3.24**	**0.38**	**1.72**	**12.86**	**45.74**	**1.12**	**0.44**	**1.60**
SE	**4.91**	**23.48**	**1.45**	**0.17**	**0.77**	**5.76**	**20.45**	**0.50**	**0.20**	**0.71**

PLANT.XLS

	Plant-2B-4h	Plant-IIB-28S	IIB/28S(4h)	plant-IIX-4h	Plant IIX-28	IIX/28S(4h)
F1	1693	39.84	42.49	752.7	26.66	28.23
F2	1352	42.82	31.57	1071	26.33	40.68
F3	1991	43.74	45.52	1163	25.54	45.54
F4	2135	40.17	53.15	720.9	25.21	28.60
F5	626.9	31.08	20.17	1065	22.69	46.94
MEAN	1559.58	39.53	38.58	954.52	25.29	35.00
SD	601.67	5.01	12.88	202.82	1.56	9.05
SE	300.83	2.51	6.44	101.41	0.78	4.53
C1	1423	45.89	31.01	827.6	28.31	29.23
C2	1243	43.42	28.63	953	27.76	34.33
C3	687.7	44.22	15.55	1250	28.96	43.18
C4	1485	42.42	35.01	820	26.06	31.47
C5	1167	39.21	29.76	721.6	23.51	30.69
C6	668	37.73	18.23	591	24.29	24.33
MEAN	1115.62	42.15	26.37	860.53	26.46	32.20
SD	350.93	3.10	7.69	225.79	2.23	6.30
SE	156.94	1.39	3.44	100.98	1.00	2.82

	wmg-2b-2h	wmg-2b-4h	wmg-2b-28S	IIB/28S(2h)	IIB/28S(4h)	wmg-2a-2d	wmg-2a-28S	IIA/28S(2d)
F1	1049	2871	29.43	35.64	97.55	22.19	23.81	0.93
F2	1363	3554	28.33	48.11	125.45	12.69	29.91	0.42
F3	1248	3209	26.49	47.11	121.14	30.11	30.43	0.99
F4	1235	3198	26.12	47.28	122.43	16.02	28.86	0.56
F5	1339	3478	29.43	45.50	118.18	18.81	25.96	0.72
MEAN	**1246.80**	**3252.00**	**27.96**	**44.73**	**116.95**	**19.96**	**27.75**	**0.73**
SD	**123.76**	**270.05**	**1.58**	**5.17**	**11.16**	**6.67**	**2.80**	**0.24**
SE	**61.88**	**135.02**	**0.79**	**2.58**	**5.58**	**3.33**	**1.40**	**0.12**
C1	704	2204	25.35	27.77	86.94	11.18	25.54	0.44
C2	1054	2875	26.52	39.74	108.41	15.75	30.59	0.51
C3	904.2	2634	26.35	34.31	99.96	21.24	30.56	0.70
C4	1242	3197	29.36	42.30	108.89	23.25	29.37	0.79
C5	867.9	2580	29.03	29.90	88.87	20.15	27.54	0.73
C6	796.3	2530	24.7	32.24	102.43	16.38	24.56	0.67
MEAN	**928.07**	**2670.00**	**26.89**	**34.38**	**99.25**	**17.99**	**28.03**	**0.64**
SD	**192.96**	**336.42**	**1.91**	**5.66**	**9.45**	**4.40**	**2.58**	**0.14**
SE	**86.30**	**150.45**	**0.86**	**2.53**	**4.23**	**1.97**	**1.15**	**0.06**

W MG.XLS

wmg-2x-4h	MG-2X-28S	HX/28S (4h)
75.62	25.7	2.94
206.5	34.04	6.07
137.7	30.74	4.48
47.04	27.62	1.70
335.9	28.24	11.89
160.65	29.27	5.42
115.63	3.22	3.97
57.81	1.61	1.99
94.24	25.93	3.63
100.6	28.78	3.50
124.4	31.73	3.92
177.1	30.57	5.79
186.1	29.83	6.24
145.3	26.34	5.52
137.99	28.86	4.77
38.42	2.33	1.21
17.18	1.04	0.54

	mmg-I-15h	I-3d	I-28S	I/28S(15h)	I/28S(3d)	mmg2a-15h	2a-2d	2a-28S	IIA/28S(15h)	IIA/28S(2d)
F1	89.05	540.2	30.75	2.90	17.57	27.83	102.2	32.11	0.87	3.18
F2	54.32	356.7	32.93	1.65	10.83	23.14	66.22	24.39	0.95	2.72
F3	96.97	639.3	30.94	3.13	20.66	38.35	142.1	30.2	1.27	4.71
F4	129.8	777.1	34.51	3.76	22.52	33.82	158.7	29.94	1.13	5.30
F5	70.74	438.4	31.64	2.24	13.86	26.6	65.64	31.55	0.84	2.08
MEAN	**88.18**	**550.34**	**32.15**	**2.74**	**17.09**	**29.95**	**106.97**	**29.64**	**1.01**	**3.60**
SD	**28.55**	**165.43**	**1.57**	**0.82**	**4.80**	**6.08**	**42.72**	**3.07**	**0.18**	**1.36**
SE	**14.28**	**82.71**	**0.79**	**0.41**	**2.40**	**3.04**	**21.36**	**1.54**	**0.09**	**0.68**
C1	120	593.2	29.75	4.03	19.94	33.25	99.13	29	1.15	3.42
C2	93.53	537.3	35.85	2.61	14.99	39.04	168.2	32.97	1.18	5.10
C3	11.7	98.86	38.36	0.31	2.58	33.77	71.16	34.37	0.98	2.07
C4	88.69	559.1	27.12	3.27	20.62	16.24	82.61	26.51	0.61	3.12
C5	71.95	434.1	32.14	2.24	13.51	33.34	126	26.61	1.25	4.74
C6	79.11	489.4	31.75	2.49	15.41	36.44	100.5	33.48	1.09	3.00
MEAN	**77.50**	**451.99**	**32.50**	**2.48**	**14.51**	**32.01**	**107.93**	**30.49**	**1.04**	**3.57**
SD	**36.20**	**181.72**	**4.07**	**1.25**	**6.50**	**6.05**	**34.88**	**3.56**	**0.23**	**1.14**
SE	**16.19**	**81.27**	**1.82**	**0.56**	**2.91**	**3.60**	**15.60**	**1.59**	**0.10**	**0.51**

	mmg-2b-2h	mmg2b-4h	mmg2b-28S	IIB/28S(2h)	IIB/28S(4h)	mmg2x-4h	mmg-2x-28	IIX/28S(4h)
F1	774.8	2461	40.75	19.01	60.39	697.9	35.29	19.78
F2	560	1880	32.6	17.18	57.67	523.6	31.7	16.52
F3	709.5	2368	38.9	18.24	60.87	502.8	32.57	15.44
F4	689.6	2325	37.79	18.25	61.52	772.2	37.35	20.67
F5	828.8	2568	35.03	23.66	73.31	994.2	38.75	25.66
MEAN	**712.54**	**2320.40**	**37.01**	**19.27**	**62.75**	**698.14**	**35.13**	**19.81**
SD	**101.48**	**263.30**	**3.22**	**2.54**	**6.08**	**201.10**	**3.02**	**4.02**
SE	**50.74**	**131.65**	**1.61**	**1.27**	**3.04**	**100.55**	**1.51**	**2.01**
C1	374.9	1358	34.65	10.82	39.19	1131	32.95	34.32
C2	514.3	1799	38.62	13.32	46.58	1025	35.04	29.25
C3	691.6	2635	38.91	22.91	67.72	1434	40.58	35.34
C4	645.7	2148	35.88	17.95	59.70	820.6	36.91	22.24
C5	626.2	2064	39.37	15.91	52.43	853.4	40.13	21.27
C6	352.6	1374	34.95	10.09	39.31	726.8	36.35	19.99
MEAN	**567.66**	**1896.33**	**37.08**	**15.17**	**60.82**	**998.50**	**36.99**	**27.07**
SD	**200.35**	**491.77**	**2.13**	**4.82**	**11.42**	**258.60**	**2.94**	**6.82**
SE	**89.60**	**219.93**	**0.95**	**2.16**	**5.11**	**115.65**	**1.32**	**3.05**

	rmg-I-15h	rmg-I-4h	I-28S	I/28S(15h)	I/28S(4h)	rmg-2a-15h	2a-2d	2a-28S	IIA/28S(15h)	IIA/28S(2d)
F1	513.6	92.46	33.42	15.37	2.77	191.6	706.2	34.13	5.61	20.69
F2	106.8	15.58	16.87	6.33	0.93	136.7	560.2	36.83	3.71	15.21
F3	814.4	150.2	35.83	22.73	4.19	246.2	868.4	33.27	7.40	26.10
F4	813.1	140.6	30.84	26.37	4.56	214.2	783.1	30.77	6.96	25.45
F5	622.8	102.8	31.61	19.58	3.23	113.9	425	31.28	3.64	13.59
MEAN	**574.14**	**100.35**	**29.76**	**18.07**	**3.14**	**180.52**	**668.58**	**33.26**	**5.47**	**20.21**
SD	**291.23**	**53.25**	**7.45**	**7.71**	**1.43**	**54.61**	**177.15**	**2.43**	**1.76**	**5.73**
SE	**145.62**	**26.63**	**3.72**	**3.86**	**0.71**	**27.31**	**88.58**	**1.22**	**0.88**	**2.86**
C1	71.54	12.82	12.15	5.89	1.06	158	594.5	34.87	4.53	17.05
C2	354	70.4	31.9	11.10	2.21	199.2	721.1	32.46	6.14	22.22
C3	800.8	127.4	38.02	21.07	3.35	176	662.7	40.11	4.39	16.52
C4	693.9	111.3	36.18	19.18	3.08	136.5	528	37.63	3.63	14.03
C5	480.8	81.62	32.24	14.91	2.53	206.7	743.1	34.3	6.03	21.66
C6	445.6	67.98	36.5	12.21	1.86	150.5	614	35.51	4.24	17.29
MEAN	**555.04**	**91.74**	**34.97**	**14.06**	**2.35**	**171.15**	**643.90**	**35.81**	**4.82**	**18.13**
SD	**185.50**	**26.35**	**2.74**	**5.57**	**0.84**	**27.84**	**81.14**	**2.69**	**1.02**	**3.18**
SE	**92.76**	**13.17**	**1.37**	**2.49**	**0.37**	**12.45**	**36.29**	**1.20**	**0.45**	**1.42**

	mg2b-4h	2b-28S	IIB/28S(4h)	mg2x-4h	2x-28S	IIX/28S(4h)
F1	1152	29.52	39.02	1398	32.48	42.98
F2	1139	31.61	36.03	1438	32.22	44.63
F3	1767	34.51	51.20	1479	34.15	43.31
F4	1239	30.15	41.09	1277	27.48	46.47
F5	1155	30.98	37.28	1436	29.03	49.47
MEAN	**1290.40**	**31.35**	**40.93**	**1405.20**	**31.07**	**45.37**
SD	**269.36**	**1.94**	**6.05**	**77.44**	**2.73**	**2.67**
SE	**134.68**	**0.97**	**3.03**	**38.72**	**1.37**	**1.33**
C1	728.5	32.36	22.51	1760	35.76	49.22
C2	824.8	30.8	20.29	1481	33.15	44.68
C3	291	32.7	8.90	1515	37.2	40.73
C4	680.3	34.84	19.53	1219	33.39	36.51
C5	401.7	32.93	12.20	1259	30.51	41.27
C6	325	30.54	10.64	1091	26.29	41.50
MEAN	**608.55**	**32.36**	**16.68**	**1387.50**	**32.72**	**42.32**
SD	**191.74**	**1.57**	**6.76**	**243.55**	**3.90**	**4.27**
SE	**85.76**	**0.70**	**2.58**	**108.92**	**1.75**	**1.91**

	wvl-2b-2h	wvl-2b-4h	2b-28S	IIIB/28S(2h)	IIIB/28S(4h)	wvl-2x-4h	wvl2x-3d	2x-28S	IIIx/28S(4h)	IIIx/28S(3d)
F1	522.3	2196	34.16	15.29	64.29	35.7	925.6	30.49	1.17	30.36
F2	574.3	2272	27.92	20.57	81.38	33.69	898.7	26.09	1.30	34.45
F3	446.2	1994	28.58	15.61	69.77	46.07	1227	26.35	1.82	46.57
F4	692.4	2727	27.64	25.05	98.66	20.53	610.1	23.73	0.87	25.71
F5	800.5	2968	30.11	28.59	98.57	29.49	986.7	27.59	1.07	35.76
	607.14	**2431.40**	**29.68**	**20.62**	**82.63**	**33.54**	**929.62**	**26.85**	**1.25**	**34.57**
	140.39	**402.32**	**2.68**	**5.21**	**15.93**	**10.02**	**220.66**	**2.47**	**0.36**	**7.77**
	70.19	**201.16**	**1.34**	**2.61**	**7.96**	**5.01**	**110.33**	**1.23**	**0.18**	**3.89**
C1	475.6	2026	30.91	15.39	65.55	15.5	589.1	25	0.62	23.56
C2	501.3	2210	32.39	15.48	68.23	57.88	1476	32.63	1.77	45.23
C3	550.3	2411	30.78	17.88	78.33	50.36	1262	28.02	1.80	45.04
C4	626.1	2543	33.11	18.91	76.60	38.9	1116	25.25	1.54	44.20
C5	728.6	2900	34.03	21.41	85.22	67.01	1742	23.95	2.80	72.73
C6	367.5	1960	31.47	11.68	62.28	44.33	1112	27.34	1.62	40.67
	541.67	**2341.67**	**32.12**	**16.79**	**72.74**	**45.66**	**1216.18**	**27.03**	**1.69**	**45.24**
	125.28	**352.06**	**1.29**	**3.37**	**8.77**	**17.80**	**389.93**	**3.14**	**0.70**	**15.80**
	56.03	**157.45**	**0.58**	**1.51**	**3.92**	**7.96**	**174.38**	**1.40**	**0.31**	**7.06**

MVL.XLS

	MVL-I-3d	I-28S	I/28S(3d)	mvl2a-15h	mvl2a-2d	IIA-28S	IIA/28S(15h	IIA/28S(2d)
F1	8.652	35.29	0.25	23.21	62.6	29.74	0.78	2.10
F2	12.03	34.03	0.35	11.25	75.99	30.81	0.37	2.47
F3	28.29	36.57	0.77	19.59	99.99	27.4	0.71	3.65
F4	0.645	28.38	0.02	9.485	78.71	21.9	0.43	3.59
F5	1.488	29.15	0.05	13.12	38.13	29	0.45	1.31
MEAN	**10.22**	**32.68**	**0.29**	**15.33**	**71.05**	**27.77**	**0.55**	**2.63**
SD	**11.18**	**3.70**	**0.30**	**5.83**	**22.78**	**3.51**	**0.19**	**1.00**
SE	**5.59**	**1.85**	**0.15**	**2.91**	**11.39**	**1.75**	**0.09**	**0.50**
C1	1.672	26.01	0.06	3.088	32.96	28.04	0.11	1.18
C2	32.7	29.93	1.09	55.15	188.7	29.05	1.90	6.50
C3	16.52	34.87	0.48	35.65	166	34.81	1.02	4.77
C4	17.72	31.85	0.56	8.803	78.45	26.9	0.33	2.92
C5	17.82	35.04	0.51	12.57	68.62	28.36	0.44	2.42
C6	20.26	27.94	0.73	36.61	136.9	29.11	1.26	4.70
MEAN	**17.78**	**30.91**	**0.57**	**25.31**	**111.94**	**29.38**	**0.84**	**3.75**
SD	**9.90**	**3.63**	**0.34**	**20.27**	**61.11**	**2.78**	**0.68**	**1.93**
SE	**4.43**	**1.62**	**0.15**	**9.06**	**27.33**	**1.24**	**0.30**	**0.86**

	mvl-2b-2h	mvl-2b-4h	2b-28S	IIB/28S(2h	IIB/28S(4h)	mvl2x-4h	IIX-28S	IIbx/28S(4h)
F1	646.3	2163	34.77	18.59	62.21	450.3	39.71	11.34
F2	610	1953	33.6	18.05	57.78	366.7	37.59	9.76
F3	727.7	2256	40.91	17.79	55.15	266.5	34.51	7.72
F4	615.6	1914	26.24	21.60	67.78	405.7	31.69	12.72
F5	731.5	2200	30.62	23.73	71.38	276	36.08	7.25
MEAN	**666.22**	**2097.20**	**33.71**	**19.99**	**62.86**	**353.04**	**36.36**	**9.76**
SD	**69.50**	**153.68**	**4.78**	**2.64**	**6.76**	**80.38**	**3.13**	**2.33**
SE	**29.75**	**76.84**	**2.39**	**1.32**	**3.38**	**40.19**	**1.56**	**1.17**
C1	417.8	1566	33.46	12.49	46.80	414.4	37.27	11.12
C2	401	1464	36.12	11.10	40.53	584.6	37.81	15.46
C3	366	1325	34.16	10.71	38.79	454.2	39.39	11.53
C4	577.9	1869	33.73	17.13	55.41	425.9	36.6	11.64
C5	413.7	1415	30.79	13.44	45.96	392.3	35.46	11.06
C6	671.1	2066	31.53	21.28	65.52	496.9	38	13.13
MEAN	**474.58**	**1617.50**	**33.30**	**14.36**	**48.64**	**461.72**	**37.42**	**12.32**
SD	**121.19**	**288.85**	**1.91**	**4.10**	**10.04**	**70.54**	**1.33**	**1.71**
SE	**54.20**	**129.18**	**0.86**	**1.83**	**4.49**	**31.55**	**0.60**	**0.77**

RVL.XLS

	rvl-I-15h	I-28S	II/28S(15h)	rvl-2a-15h	rvl-2a-2d	2a-28S	IIA/28S(15h)	IIIA/28S(2d)
F1	220.21	23.25	9.47	152.2	548.4	26.66	5.71	20.57
F2	86.91	22.58	3.85	128.9	499.8	26.38	4.89	18.94
F3	340	30.57	11.12	245	881.4	29.45	8.32	29.93
F4	224.6	29.73	7.55	188.5	714.1	26.5	7.11	26.95
F5	112.7	23.73	4.75	138.9	511.2	24.94	5.57	20.50
MEAN	**196.88**	**25.97**	**7.35**	**170.70**	**630.94**	**26.79**	**6.32**	**23.38**
SD	**101.21**	**3.85**	**3.07**	**47.27**	**164.35**	**1.64**	**1.38**	**4.78**
SE	**50.61**	**1.92**	**1.54**	**23.64**	**82.18**	**0.82**	**0.69**	**2.39**
C1	15.4	21.96	0.70	134.4	486.4	30.65	4.38	16.26
C2	249.5	31.27	7.98	350.6	1144	27.91	12.56	40.99
C3	68.51	32.58	2.10	211.6	799.5	29.86	7.09	26.77
C4	88.69	29.97	2.96	114.4	466.9	26.61	4.27	17.42
C5	13.88	18.21	0.76	151.5	551.3	24.79	6.11	22.24
C6	19.01	22.94	0.83	136.5	546.2	26.69	5.11	20.46
MEAN	**75.83**	**26.16**	**2.56**	**183.17**	**667.72**	**27.79**	**6.59**	**24.02**
SD	**90.66**	**5.88**	**2.81**	**88.46**	**261.36**	**2.17**	**3.12**	**9.11**
SE	**40.55**	**2.63**	**1.26**	**39.56**	**116.88**	**0.97**	**1.39**	**4.08**

	rvl-2b-2h	rvl2b-4h	2b-28S	IIB/28S(2h)	IIB/28S(4h)	rvl-2x-4h	2x-28S	IIx/28S(4h)
F1	683.7	2123	26.63	25.67	79.72	1009	33.05	30.53
F2	532.2	1771	29.46	18.07	60.12	1002	34.87	28.74
F3	769	2325	27.42	28.77	84.79	1153	22.82	50.53
F4	723.3	2129	27.49	26.31	77.45	1026	24.06	42.64
F5	773.1	2308	24.62	31.40	93.74	745.8	24	31.08
MEAN	**700.26**	**2131.20**	**27.12**	**26.05**	**79.16**	**987.16**	**27.76**	**36.70**
SD	**102.75**	**222.84**	**1.76**	**5.00**	**12.35**	**148.29**	**5.72**	**9.48**
SE	**51.37**	**111.42**	**0.87**	**2.50**	**6.18**	**74.15**	**2.86**	**4.74**
C1	222.1	692.2	24.64	9.01	36.21	971.4	30.94	31.40
C2	318.2	1157	26.5	12.01	43.66	1089	30.91	35.23
C3	272.4	1059	30.58	8.91	34.63	835.3	29.72	28.11
C4	340.3	1175	25.65	13.27	45.81	678.3	21.82	31.37
C5	402.5	1474	26.07	15.44	56.54	1012	23.91	42.33
C6	273.6	1112	26.45	10.34	42.04	628.5	24.38	25.78
MEAN	**304.85**	**1144.87**	**26.65**	**11.50**	**43.15**	**869.08**	**26.91**	**32.37**
SD	**63.00**	**190.82**	**2.04**	**2.57**	**7.86**	**186.91**	**4.09**	**6.85**
SE	**28.18**	**85.25**	**0.91**	**1.15**	**3.51**	**83.59**	**1.83**	**2.61**

	ta-2b-2h	ta2b-4h	2b-28S	IIB/28S(2h)	IIB/28S(4h)	ta2x-4h	2x-28S	[illegible]/28S(4h)
F1	540.8	1862	27.04	20.00	68.86	132.1	38.76	3.41
F2	494.6	1755	27.69	17.86	63.38	189.8	32.53	5.83
F3	441.2	1578	26.13	16.88	60.39	215.9	39.92	5.41
F4	734.1	2186	26.14	28.08	83.63	353.4	31.48	11.23
F5	414	1469	28.97	14.29	50.71	192.9	37.07	5.20
MEAN	**524.94**	**1770.00**	**27.19**	**19.42**	**65.39**	**216.82**	**35.95**	**6.22**
SD	**126.73**	**278.03**	**1.19**	**5.26**	**12.14**	**82.36**	**3.76**	**2.95**
SE	**63.36**	**139.02**	**0.60**	**2.63**	**6.07**	**41.18**	**1.88**	**1.47**
C1	273.1	1038	28.92	9.44	35.89	115.6	36.64	3.16
C2	173.9	825	28.35	6.13	29.10	137.6	40.89	3.37
C3	397.3	1486	26.15	15.19	56.83	133.4	38.29	3.48
C4	256.8	1023	29.87	8.60	34.25	189.3	35.88	5.28
C5	354.5	1232	27.14	13.06	45.39	170.6	38.62	4.42
C6	330.1	1266	28.75	12.34	47.33	124.4	37.58	3.31
MEAN	**297.62**	**1145.00**	**27.86**	**10.79**	**41.46**	**145.16**	**37.98**	**3.83**
SD	**79.75**	**231.18**	**1.42**	**3.32**	**10.22**	**28.62**	**1.75**	**0.84**
SE	**36.67**	**103.39**	**0.63**	**1.49**	**4.57**	**12.80**	**0.78**	**0.37**

	ta-I-15h	TA-I-3d	I-28S	I/28S(15h)	I/28S(3d)	ta2a-15h	ta2a-2d	2a-28S	IIA/28S(15h)	IIA/28S(2d)
F1	11	118.5	29.82	0.37	3.97	23.19	97.26	31.32	0.74	3.11
F2	16.24	73.5	23.49	0.69	3.13	33.9	114	27.47	1.23	4.15
F3	11.28	62.53	23.84	0.47	2.62	63.35	270.5	29.66	2.14	9.12
F4	29.56	159.4	26.53	1.11	6.01	53.53	229.5	24.99	2.14	9.18
F5	7.945	60.4	29.29	0.27	2.06	28.78	140.6	27.11	1.06	5.19
MEAN	15.21	94.57	26.59	0.58	3.56	40.56	170.37	28.11	1.46	6.15
SD	8.56	43.06	2.95	0.34	1.54	17.12	75.72	2.44	0.64	2.84
SE	4.28	21.53	1.48	0.17	0.77	8.56	37.86	1.22	0.32	1.42
C1	2.036	32.07	28.19	0.07	1.14	23.42	71.28	30.85	0.76	2.31
C2	12.36	38.37	29.92	0.41	1.28	14.42	53.94	28.45	0.51	1.90
C3	15.44	35.92	27.15	0.57	1.32	26.77	94.87	31.23	0.86	3.04
C4	12.94	59.67	28.37	0.46	2.10	15.57	88.38	30.54	0.51	2.89
C5	7.923	32.21	28.94	0.27	1.11	23.07	86.75	29.78	0.77	2.91
C6	15.27	63.39	27.37	0.56	2.32	26.85	111.5	28.24	0.95	3.95
MEAN	10.99	43.61	28.32	0.39	1.55	21.68	84.45	29.85	0.73	2.83
SD	6.16	14.13	1.02	0.19	0.52	5.43	19.83	1.26	0.18	0.70
SE	2.31	6.32	0.46	0.08	0.23	2.43	8.87	0.56	0.08	0.31