

Supplementary Materials: Aesthetic Quality Properties of Carbonate Breccias Associated with Textural and Compositional Factors: Marrón Emperador Ornamental Stone (Upper Cretaceous, Southeast Spain)

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1. Supplementary Information

TableS1 Table S1. Chemical composition (ICP) of Marrón Emperador breccia dolostones, samples from quarries

	JUM-1	JUM-5a	JUM-7	CY-6	CY-9	CY-13	FU-2	FU-4	SP-4	SPS-6	JIM-1ngr	JIM-1bl	JIM-7	FHE-3
SiO₂	0.00	0.19	0.35	0.27	0.26		0.44	0.52	0.36	0.38	0.58	0.06	0.38	0.14
Al₂O₃	0.10	0.12	0.12	0.08	0.08	0.04	0.06	0.26	0.16	0.16	0.31	<0.01	0.23	0.03
Fe₂O₃	0.13	0.07	0.06	0.11	0.07	0.06	0.07	0.17	0.13	0.10	0.16	0.04	0.32	<0.04
MnO	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MgO	19.41	17.00	18.36	18.55	18.58	18.59	18.80	18.66	19.43	18.84	18.39	0.37	6.60	2.96
CaO	32.54	35.65	33.54	33.64	33.45	33.97	32.87	32.74	32.51	32.93	32.78	56.19	47.92	52.43
Na₂O	0.09	0.08	0.10	0.12	0.14	0.11	0.14	0.07	0.09	0.07	0.12	0.03	0.04	0.06
K₂O	0.02	0.02		0.03	0.03	0.02	0.02	0.07	0.03	0.04	0.09	<0.01	0.06	0.02
TiO₂	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01
P₂O₅	0.02	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.02	0.02	<0.01	<0.01	0.01	<0.01
LOI	47.00	46.60	47.10	46.90	47.10	46.90	47.20	47.10	46.90	47.10	47.20	43.20	44.30	44.20
Zr	1.4	1.5	2.4	1.8	8.2	1.0	1.4	3.8	3.4	2.9	3.6	<0.1	3.1	1.1
Y	0.4	0.4	0.5	0.7	0.3	0.3	0.7	1.7	2.0	1.1	0.8	0.6	1.1	0.3
Rb	1.1	0.8	0.6	1.0	1.1	0.7	0.8	3.3	1.6	1.8	3.8	<0.1	2.6	0.5
Sr	213	219	267	204	219	207	225	201	211	188	206	610	178	236
Cu	0.6	1.1	0.2	1.1	<0.1	0.1	<0.1	1.2	0.6	1.3	<0.1	<0.1	<0.1	<0.1
Ni	1.4	1.5	0.5	1.8	0.5	1.6	1.1	2.4	1.7	2.9	2.3	0.4	2.1	<0.1
Co	<0.2	<0.2	0.2	<0.2	<0.2	0.2	0.2	<0.2	0.3	0.3	0.5	<0.2	0.5	<0.2
Ce	0.8	0.8	1.0	0.9	0.7	0.4	1.3	3.1	1.7	1.3	1.9	0.2	2.2	0.5
Ba	4.0	4.0	4.0	4.0	3.0	2.0	5.0	8.0	6.0	7.0	7.0	<1.0	5.0	17.0
V	<8.0	<8.0	9.0	17.0	8.0	9.0	<8.0	<8.0	11.0	<8.0	13.0	<8.0	14.0	<8.0
Th	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.3	<0.2	0.3	<0.2	0.2	<0.2
Nb	0.2	0.0	0.2	0.1	0.1	<0.1	0.1	0.2	0.3	0.2	0.4	<0.1	0.1	<0.1
La	0.5	<0.1	1.1	1.1	<0.1	<0.1	<0.1	1.8	1.4	<0.1	<0.1	<0.1	<0.1	0.5
Zn	<1.0	2.0	2.0	3.0	2.0	1.0	2.0	3.0	2.0	5.0	1.0	<1.0	4.0	<1.0
Cs	0.2	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.1	0.3	<0.1	0.2	<0.1
Pb	<0.1	0.7	0.8	0.7	1.0	0.3	0.6	1.2	0.9	1.1	0.6	1.3	0.9	0.4
Mo	0.4	0.4	0.6	0.1	0.2	0.1	1.4	1.5	0.8	1.0	0.8	<0.1	0.8	<0.1
U	1.4	1.1	2.3	2.2	1.6	1.8	1.3	1.2	6.9	3.5	1.9	<0.1	0.9	1.2
Sb	1.0	0.4	0.7	1.5	0.4	0.6	0.4	9.1	16.8	12.0	0.5	0.2	1.1	1.8
As	4.8	4.1	3.9	5.3	2.4	4.7	4.1	4.9	6.9	6.0	4.2	3.9	7.2	4.1
Nd	0.3	0.3	<0.3	0.7	<0.3	<0.3	0.6	1.7	1.0	0.6	0.7	<0.3	1.2	<0.3
Sm	0.08	0.08	0.07	0.15	0.07	0.06	0.13	0.30	0.20	0.13	0.17	<0.05	0.23	<0.05

(Mg/Ca)	0.50	0.40	0.46	0.46	0.47	0.46	0.48	0.48	0.50	0.48	0.47	0.01	0.12	0.05
(Sr/Ca)·10³	0.92	0.86	1.12	0.85	0.92	0.85	0.96	0.86	0.91	0.80	0.88	1.52	0.52	0.63
(Sr/Mg)·10³	1.83	2.15	2.43	1.84	1.97	1.85	2.00	1.80	1.81	1.66	1.87	274.6	4.49	13.27
(Rb/Sr)·10³	5.17	3.65	2.25	4.89	5.02	3.39	3.55	16.39	7.59	9.57	18.46	0.00	14.61	2.12

Table S2. Chemical composition (XRF) of Marrón Emperador breccia dolostones samples from Sierra del Cuchillo section.

	S6/1	S6/2	S6/3	S6/4	S6/5	S6/6	S6/7	S7/1a	S7/2	S7/3	S7/4	S7/5a	
SiO₂	0.04	0.38	0.38	0.23	0.19	0.40	0.65	0.55	0.30	0.15	0.37	0.41	
Al₂O₃	0.04	0.19	0.21	0.11	0.10	0.18	0.28	0.24	0.12	0.08	0.17	0.15	
Fe₂O₃	0.06	0.14	0.11	0.12	0.12	0.16	0.19	0.16	0.09	0.07	0.13	0.19	
MnO	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	
MgO	15.38	15.98	14.99	16.15	16.39	16.07	15.99	15.77	13.80	16.00	17.01	14.94	
CaO	38.05	36.26	37.25	36.14	36.88	35.76	35.09	37.20	39.16	36.32	35.89	35.88	
Na₂O	0.22	0.31	0.25	0.25	0.27	0.21	0.24	0.35	0.31	0.24	0.25	0.25	
K₂O	<0.01	0.03	0.03	<0.01	<0.01	0.04	0.07	0.02	<0.01	<0.01	0.02	0.01	
TiO₂	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	
P₂O₅	0.05	0.05	0.09	0.06	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.06	
LOI	46.15	46.64	46.69	46.94	46.00	47.12	47.42	45.65	46.15	47.08	46.10	48.10	
Zr	12.0	16.0	10.0	9.0	11.0	10.0	7.0	14.0	15.0	9.0	11.0	12.0	
Y	1.0	1.0	1.0	1.0	<0.1	1.0	1.0	1.0	<0.1	1.0	<0.1	1.0	
Rb	3.0	4.0	4.0	3.0	3.0	4.0	5.0	4.0	3.0	3.0	4.0	4.0	
Sr	196	185	174	181	223	209	197	150	169	182	196	230	
Cu	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Ni	2.0	3.0	4.0	3.0	3.0	4.0	4.0	3.0	4.0	2.0	3.0	4.0	
Co	6.0	6.0	6.0	6.0	7.0	6.0	5.0	6	5.0	6.0	6.0	6.0	
Ce	1.0	1.0	<0.1	<0.1	2.0	<0.1	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	
Ba	8.0	28.0	20.0	16.0	17.0	19.0	22.0	25.0	22.0	17.0	17.0	16.0	
Cr	1.0	3.0	5.0	3.0	3.0	7.0	7.0	4.0	3.0	1.0	2.0	2.0	
V	3.0	5.0	3.0	4.0	5.0	4.0	5.0	2.0	5.0	9.0	4.0	7.0	
Th	<0.2	<0.2	4.0	1.0	<0.2	4.0	12	<0.2	<0.2	6.0	3.0	<0.2	
Nb	2.0	<0.1	3.0	2.0	2.0	4.0	6.0	<0.1	<0.1	3.0	3.0	1.0	
La	10.0	3.0	<0.1	7.0	8.0	11.0	3.0	<0.1	4.0	<0.1	2.0	3.0	
Zn	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Cs	<0.1	4.0	4.0	<0.1	1.0	7.0	3.0	6.0	4.0	<0.1	3.0	1.0	
Pb	1.0	<0.1	1.0	<0.1	1.0	1.0	<0.1	1.0	<0.1	<0.1	2.0	1.0	
Mo	2.0	1.0	1.0	<0.1	2.0	3.0	2.0	1.0	5.0	2.0	2.0	3.0	
Cl	133	233	142	228	193	199	193	129	163	210	195	244	
(Mg/Ca)	0.34	0.37	0.34	0.38	0.37	0.38	0.38	0.36	0.30	0.37	0.40	0.35	
(Sr/Ca)·10³	0.72	0.71	0.65	0.70	0.85	0.82	0.79	0.56	0.60	0.70	0.76	0.90	
(Sr/Mg)·10³	2.12	1.93	1.93	1.87	2.27	2.17	2.05	2.05	2.05	2.05	2.05	2.57	
(Rb/Sr)·10³	15.31	21.62	22.99	16.57	13.45	19.14	25.38	26.67	17.75	16.48	20.41	17.39	

Table S2. (cont.). Chemical composition (XRF) of Marrón Emperador breccia dolostones samples from Sierra del Cuchillo

section.

	S8/1	S8/3	S8/4	S8/5	S9/1a	S9/1b	S9/2	S9/3	S9/4	S9/5	S9/7	S10/1
SiO₂	0.13	0.16	0.05	0.12	0.04	0.17	0.37	0.25	0.14	0.18	0.50	0.15
Al₂O₃	0.04	0.07	0.01	0.04	0.20	0.01	0.16	0.17	0.05	0.12	0.29	0.09
Fe₂O₃	0.06	0.10	0.08	0.08	0.05	0.05	0.10	0.35	0.08	0.42	0.33	0.27
MnO	-	-	-	-	-	-	-	0.01	-	-	-	-
MgO	16.49	15.13	16.29	16.39	16.56	14.28	16.52	12.27	16.47	13.70	13.89	15.33
CaO	36.79	37.44	35.33	36.19	36.09	38.61	36.24	39.15	35.65	41.28	38.29	36.78
Na₂O	0.22	0.23	0.32	0.31	0.21	0.28	0.23	0.19	0.26	0.27	0.25	0.29
K₂O	-	-	-	-	-	-	0.01	-	-	-	0.03	-
TiO₂	0.01	0.01	-	0.01	-	-	0.01	0.01	0.01	0.01	0.01	0.01
P₂O₅	0.05	0.05	0.05	0.04	0.05	0.05	0.82	0.06	0.05	0.06	0.06	0.05
LOI	46.21	46.80	47.87	46.81	46.81	46.55	45.55	47.55	47.29	43.95	46.36	47.02
Zr	14.0	6.0	11.0	8.0	7.0	6.0	10.0	8.0	14.0	8.0	16.0	11.0
Y	1.0	1.0	-	-	1.0	1.0	2.0	1.0	1.0	1.0	1.0	-
Rb	3.0	3.0	2.0	2.0	3.0	1.0	2.0	3.0	3.0	2.0	4.0	2.0
Sr	187	195	221	219	176	178	244	183	217	170	187	221
Cu	-	-	-	-	-	-	-	-	-	1.0	-	-
Ni	2.0	4.0	3.0	3.0	2.0	3.0	4.0	4.0	3.0	5.0	3.0	4.0
Co	5.0	6.0	7.0	5.0	6.0	5.0	6.0	5.0	6.0	7.0	5.0	6.0
Ce	-	2.0	-	1.0	1.0	-	2.0	2.0	-	-	1.0	-
Ba	17.0	24.0	19.0	17.0	14.0	40.0	26.0	15.0	14.0	23.0	38.0	33.0
Cr	1.0	1.0	-	7.0	1.0	-	4.0	8.0	3.0	12.0	9.0	5.0
V	-	4.0	3.0	1.0	-	3.0	3.0	1.0	2.0	5.0	7.0	3.0
Th	-	7.0	-	-	-	13.0	1.0	9.0	-	7.0	-	1.0
Nb	-	4.0	-	2.0	3.0	6.0	2.0	3.0	1.0	5.0	-	1.0
La	-	-	-	2.0	6.0	-	3.0	3.0	-	1.0	1.0	1.0
Zn	-	-	-	-	-	-	-	-	-	-	-	-
Cs	2.0	6.0	8.0	3.0	1.0	5.0	2.0	8.0	-	7.0	6.0	5.0
Pb	-	1.0	-	-	-	1.0	1.0	-	-	-	1.0	2.0
Mo	1.0	3.0	1.0	2.0	-	3.0	1.0	4.0	4.0	3.0	3.0	1.0
Cl	193	313	278	287	353	208	436	105	294	231	334	223
(Mg/Ca)	0.38	0.34	0.39	0.38	0.39	0.31	0.38	0.26	0.39	0.28	0.30	0.38
(Sr/Ca)·10³	0.71	0.73	0.88	0.85	0.68	0.65	0.94	0.65	0.85	0.58	0.68	0.71
(Sr/Mg)·10³	1.89	2.15	2.26	2.23	1.77	2.08	2.46	2.48	2.20	2.07	2.24	1.89
(Rb/Sr)·10³	16.04	15.38	9.05	9.13	17.05	5.62	8.20	16.39	13.82	11.76	21.39	16.04

Table S2. (cont.). Chemical composition (XRF) of Marrón Emperador breccia dolostones samples from Sierra del Cuchillo section.

	S10/1	S10/2	S10/3	S10/4	S10/5	S10/6a	S10/7	S11/4	S11/5	S11/6	S12/1	S12/3	S12/4
SiO₂	0.15	0.21	0.49	0.22	0.18	0.29	0.26	0.16	0.42	0.13	0.53	0.64	0.74
Al₂O₃	0.09	0.09	0.23	0.14	0.07	0.12	0.10	0.10	0.21	0.05	0.23	0.32	0.37
Fe₂O₃	0.27	0.27	0.39	0.29	0.06	0.10	0.10	0.29	0.27	0.13	0.15	0.25	0.27
MnO	-	-	0.01	0.01	-	-	-	-	-	-	-	-	-
MgO	15.33	15.16	15.93	15.32	11.70	13.81	15.68	17.15	17.77	17.19	15.70	12.89	15.12
CaO	36.78	36.58	34.90	37.51	29.57	29.56	34.94	41.03	38.99	38.97	35.64	35.37	35.89
Na₂O	0.29	0.26	0.20	0.22	0.16	0.25	0.30	0.25	0.32	0.42	0.29	0.20	0.19
K₂O	-	-	0.01	-	-	0.01	0.01	-	0.02	-	0.03	0.06	0.05
TiO₂	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
P₂O₅	0.05	0.05	0.05	0.06	0.04	0.04	0.04	0.05	0.06	0.05	0.05	0.06	0.06
LOI	47.02	47.37	47.78	46.23	58.21	55.82	48.56	40.97	41.94	43.06	47.36	50.20	47.30
Zr	11.0	9.0	9.0	15.0	4.0	10.0	15.0	9.0	10.0	4.0	9.0	12.0	13.0
Y	-	1.0	-	1.0	1.0	1.0	1.0	1.0	1.0	-	1.0	1.0	1.0
Rb	2.0	3.0	3.0	3.0	3.0	4.0	4.0	2.0	3.0	2.0	4.0	5.0	5.0
Sr	221	161	169	195	189	198	216	227	179	173	188	132	191
Cu	-	-	-	-	-	-	-	-	-	-	-	-	-
Ni	4.0	4.0	4.0	4.0	3.0	3.0	2.0	4.0	4.0	4.0	3.0	4.0	4.0
Co	6.0	5.0	6.0	5.0	5.0	6.0	6.0	5.0	6.0	5.0	6.0	6.0	5.0
Ce	-	-	-	-	-	-	1.0	2.0	-	-	-	-	5.0
Ba	33.0	21.0	21.0	22.0	20.0	25.0	21.0	20.0	30.0	11.0	37.0	27.0	24.0
Cr	5.0	-	7.0	4.0	-	3.0	2.0	6.0	6.0	-	3.0	4.0	9.0
V	3.0	1.0	2.0	7.0	3.0	4.0	1.0	4.0	4.0	10.0	5.0	5.0	7.0
Th	1.0	-	8.0	-	7.0	5.0	-	3.0	4.0	11.0	6.0	-	-
Nb	1.0	-	2.0	-	4.0	5.0	1.0	3.0	4.0	5.0	3.0	1.0	2.0
La	1.0	-	1.0	-	1.0	-	8.0	5.0	-	-	-	1.0	-
Zn	-	-	-	-	-	-	-	-	-	-	-	-	-
Cs	5.0	3.0	5.0	6.0	-	11.0	5.0	6.0	6.0	1.0	8.0	4.0	1.0
Pb	2.0	1.0	-	1.0	-	-	1.0	-	-	-	-	-	-
Mo	1.0	-	3.0	3.0	2.0	1.0	2.0	2.0	2.0	4.0	1.0	-	5.0
Cl	223	320	135	142	221	205	320	234	166	255	277	106	196
(Mg/Ca)	0.35	0.35	0.38	0.34	0.33	0.39	0.38	0.35	0.38	0.37	0.37	0.31	0.35
(Sr/Ca)·10³	0.84	0.62	0.68	0.73	0.90	0.94	0.87	0.77	0.64	0.62	0.74	0.52	0.75
(Sr/Mg)·10³	2.40	1.77	1.77	2.12	2.69	2.39	2.30	2.21	1.68	1.68	2.00	1.71	2.11
(Rb/Sr)·10³	9.05	18.63	17.75	15.38	15.87	20.20	18.52	8.81	16.76	11.56	21.28	37.88	26.18

Table S3. Chromatic analysis data from Sierra del Cuchillo section. Global samples.

Sample	L	a	b	ΔE	Sample	L	a	b	ΔE
S6/1	39.60	3.81	6.45	40	S9/3-1	46.27	4.88	9.58	48
S6/2-1	43.68	3.38	7.46	44	S9/3-2	46.54	4.85	9.41	48
S6/2-2	43.33	3.45	7.71	44	S9/4-1	37.39	1.81	2.92	38
S6/3-1	45.55	3.23	8.00	46	S9/4-2	40.88	2.01	4.07	41
S6/3-2	46.53	3.41	8.64	47	S9/5	45.95	3.84	8.67	47
S6/4-1	44.94	3.18	7.73	46	S9/7	46.95	3.47	8.59	48
S6/4-2	43.85	2.93	7.40	45	S10/1	37.66	2.14	3.53	38
S6/5	36.92	1.56	2.09	37	S10/2	41.10	3.21	6.6	42
S6/6-1	39.33	1.83	4.11	40	S10/3	37.82	1.65	3.22	38
S6/6-2	40.02	1.89	4.48	40	S10/4	43.86	2.84	5.87	44
S6/7	38.94	1.67	3.51	39	S10/5	41.32	2.28	4.93	42
S7/1-1	51.31	4.59	12.73	53	S10/6	43.63	1.09	2.95	44
S7/1-2	50.10	4.38	11.91	52	S10/7	34.39	1.22	0.82	34
S7/2-1	49.50	5.07	11.22	51	S11/4-1	38.17	3.06	5.29	39
S7/2-2	49.31	5.92	11.56	51	S11/4-2	41.21	3.73	7.14	42
S7/2-3	49.91	4.67	11.01	51	S11/5-1	37.77	2.39	4.34	38
S7/3	43.27	2.62	6.24	44	S11/5-2	37.95	2.46	4.52	38
S7/4	48.52	3.13	9.11	49	S11/6-1	40.47	2.33	3.73	41
S7/5	41.35	2.26	4.39	42	S11/6-2	40.09	2.26	3.93	40
S8/1-1	45.37	4.64	9.94	47	S12/1-1	41.41	2.53	6.39	42
S8/1-2	47.14	4.59	9.98	48	S12/1-2	40.48	2.93	6.47	41
S8/3	48.12	4.29	9.27	49	S12/1-3	41.66	2.6	5.77	42
S8/4	38.6	2.65	4.30	39	S12/3-1	48.64	3.88	10.54	50
S8/5	37.62	2.42	3.53	38	S12/3-2	47.2	3.92	9.69	48
S9/1-1	42.74	3.01	6.90	43	S12/4-1	42.59	2.54	6.01	43
S9/1-2	43.82	3.65	7.62	45	S12/4-2	43.75	2.58	6.63	44
S9/2	38.82	2.35	3.74	39					

Table S4. Chromatic analysis from dolomitic clasts.

Sample	L	a	b	ΔE	Sample	L	a	b	ΔE
FHE-1	61.29	5.98	9.18	62	JIM-6	40.96	5.59	10.5	43
FHE-3	20.46	5.79	9.01	23	JIM-7	41.04	15.07	18.24	47
FHE-3	20.46	5.79	9.01	23	JIM-7	30.67	14.61	17.56	38
FHE-4	51.29	8.78	22.16	57	CY-1	70.91	8.8	21.41	75
FHE-5	61.29	5.98	9.18	62	CY-3	40.96	5.59	10.5	43
FHE-5	40.96	5.59	10.5	43	CY-3	20.46	5.79	9.01	23
FHE-6	61.29	5.98	9.18	62	CY-4	40.96	5.59	10.5	43
FHE-6	40.96	5.59	10.5	43	CY-4	20.46	5.79	9.01	23
FHE-6A	51.29	8.78	22.16	57	CY-5	40.96	5.59	10.5	43
FV-1	61.29	5.98	9.18	62	CY-6	51.29	8.78	22.16	57
FV-2	20.33	9.05	6.83	23	CY-6	40.96	5.59	10.5	43
FV-2a	20.33	9.05	6.83	23	CY-6	20.46	5.79	9.01	23
FV-3	20.33	9.05	6.83	23	CY-9	20.46	5.79	9.01	23
FV-4	30.67	8.97	7.74	33	CY-10	20.46	5.79	9.01	23
FV-5	40.96	5.59	10.5	43	CY-11	61.29	5.98	9.18	62
JUM-1	61.29	5.98	9.18	62	CY-12	40.96	5.59	10.5	43
JUM-1	40.96	5.59	10.5	43	CY-12	20.46	5.79	9.01	23
JUM-2	61.29	5.98	9.18	62	CY-13	20.46	5.79	9.01	23
JUM-2a	40.96	5.59	10.5	43	CY-14	20.46	5.79	9.01	23
JUM-2a	41.04	15.07	18.24	47	SPS-1	61.29	5.98	9.18	62
JUM-4	61.29	5.98	9.18	62	SPS-2	51.04	9.18	5.89	52
JUM-5	30.67	8.97	7.74	33	SPS-3	51.04	9.18	5.89	52
JUM-5	20.33	9.05	6.83	23	SPS-4	51.04	9.18	5.89	52
JUM-5a	20.46	5.79	9.01	23	SPS-4a	51.04	9.18	5.89	52
JUM-6	40.96	5.59	10.5	43	SPS-4b	51.04	9.18	5.89	52
JUM-6	20.46	5.79	9.01	23	SPS-5	40.96	5.59	10.5	43
JUM-7	40.96	5.59	10.5	43	SPS-6	40.96	5.59	10.5	43
JUM-7	20.46	5.79	9.01	23	SPS-7	40.96	5.59	10.5	43
JUM-7b	40.96	5.59	10.5	43	SPS-8a	40.96	5.59	10.5	43
FUEN-2	30.67	8.97	7.74	33	SPS-8b	40.96	5.59	10.5	43
FUEN-2	20.33	9.05	6.83	23	SPS-8b	20.46	5.79	9.01	23
FUEN-3	30.67	14.61	17.56	38	SPS-9	40.96	5.59	10.5	43
FUEN-3	20.33	9.05	6.83	23	SPS-9	20.46	5.79	9.01	23
FUEN-4	61.29	5.98	9.18	62	SP-1	80.74	6.51	8.2	81
FUEN-4	30.67	8.97	7.74	33	SP-1	70.91	8.8	21.41	75
FUEN-4	40.96	5.59	10.5	43	SP-2	40.96	5.59	10.5	43
FUEN-5	20.46	5.79	9.01	23	SP-3	71.07	9.48	4.98	72
JIM-1	40.96	5.59	10.5	43	SP-4	40.96	5.59	10.5	43
JIM-1	30.67	8.97	7.74	33	SP-5	40.96	5.59	10.5	43
JIM-2	20.46	5.79	9.01	23	SP-6	61.29	5.98	9.18	62
JIM-4	20.46	5.79	9.01	23	SP-7	40.96	5.59	10.5	43
JIM-5	20.46	5.79	9.01	23	SP-7	51.19	20.1	28.17	62