
Supplementary Material

An integrated geophysical investigation of the Flavia Seamount in the northern Tyrrhenian Back-Arc Basin (Mediterranean Sea)

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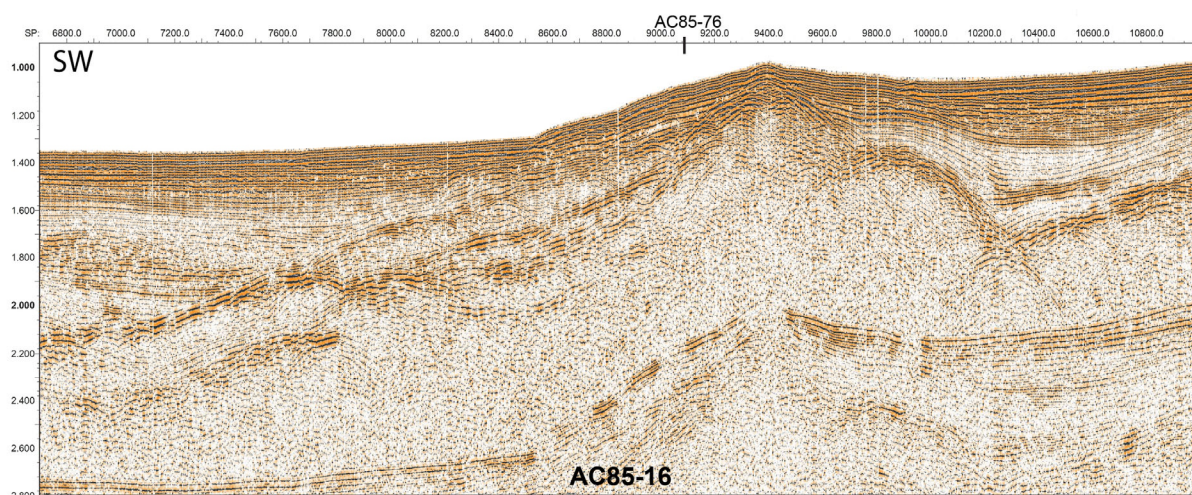
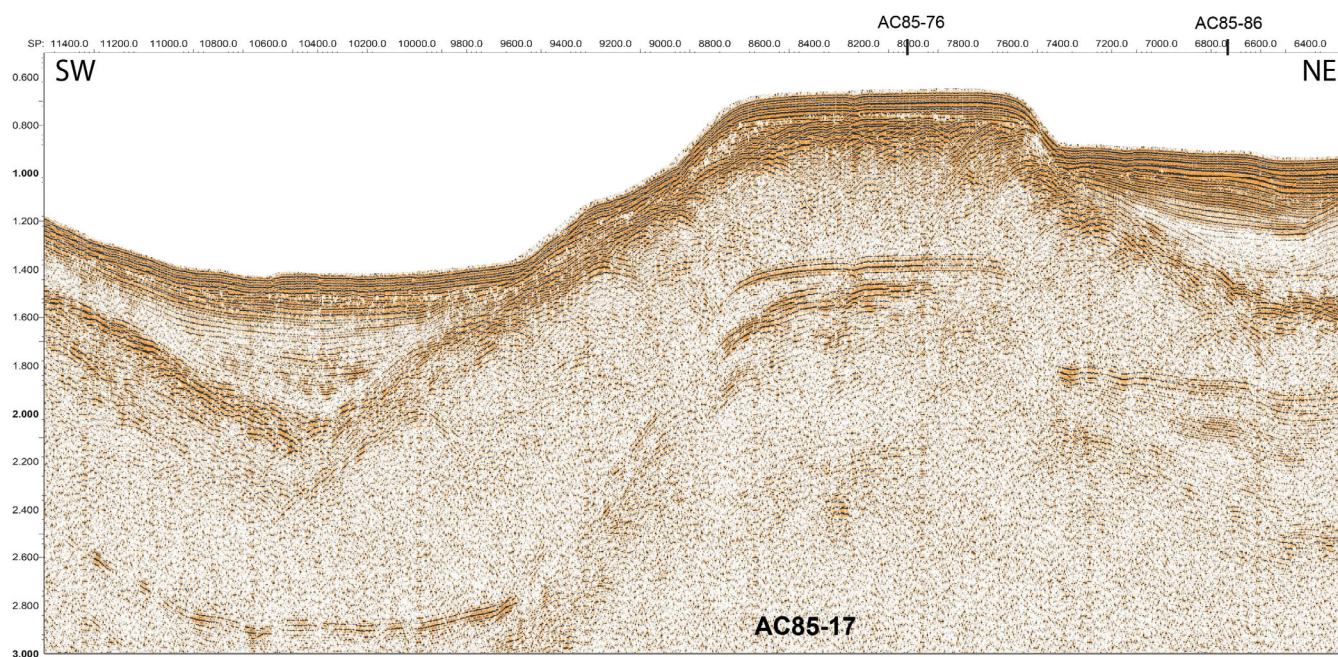
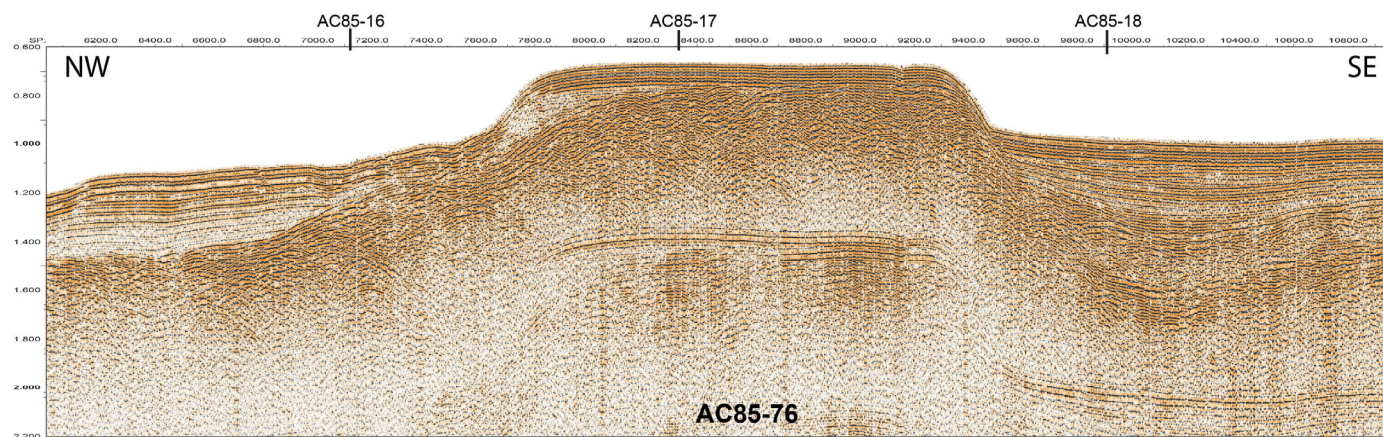
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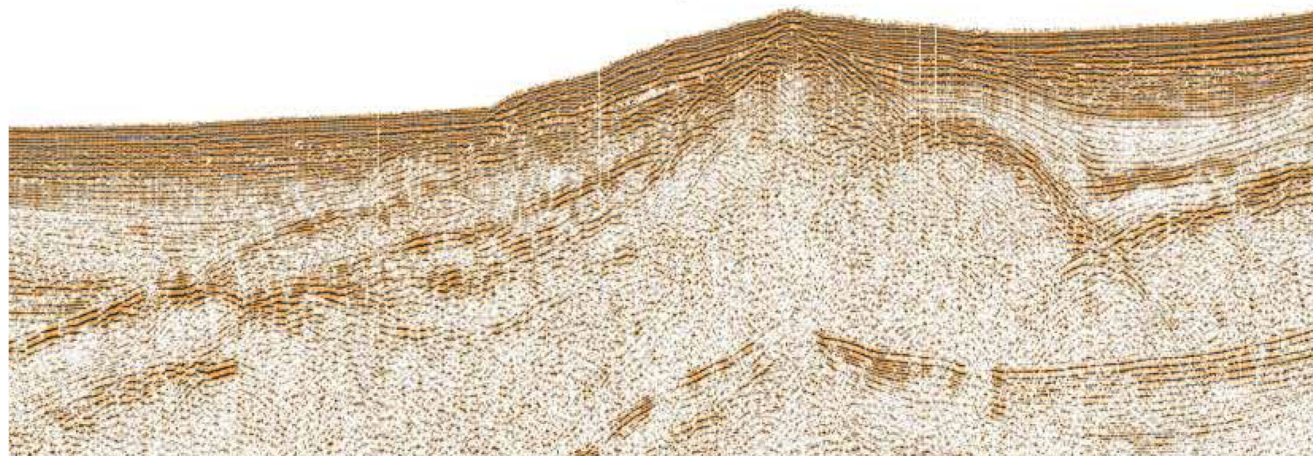
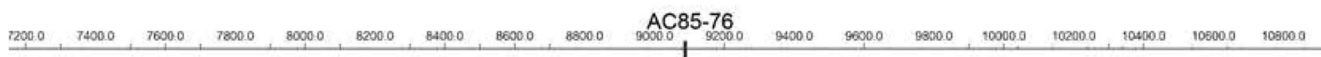
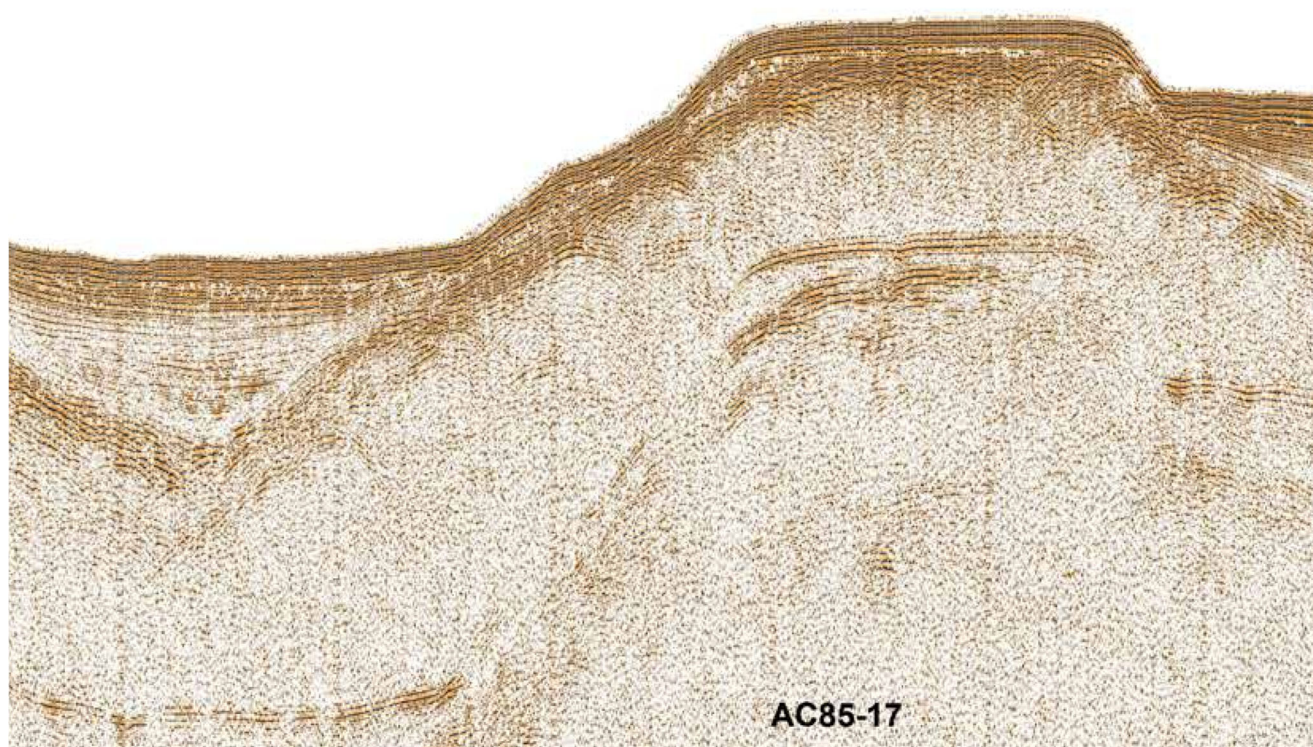
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(a)



(b)

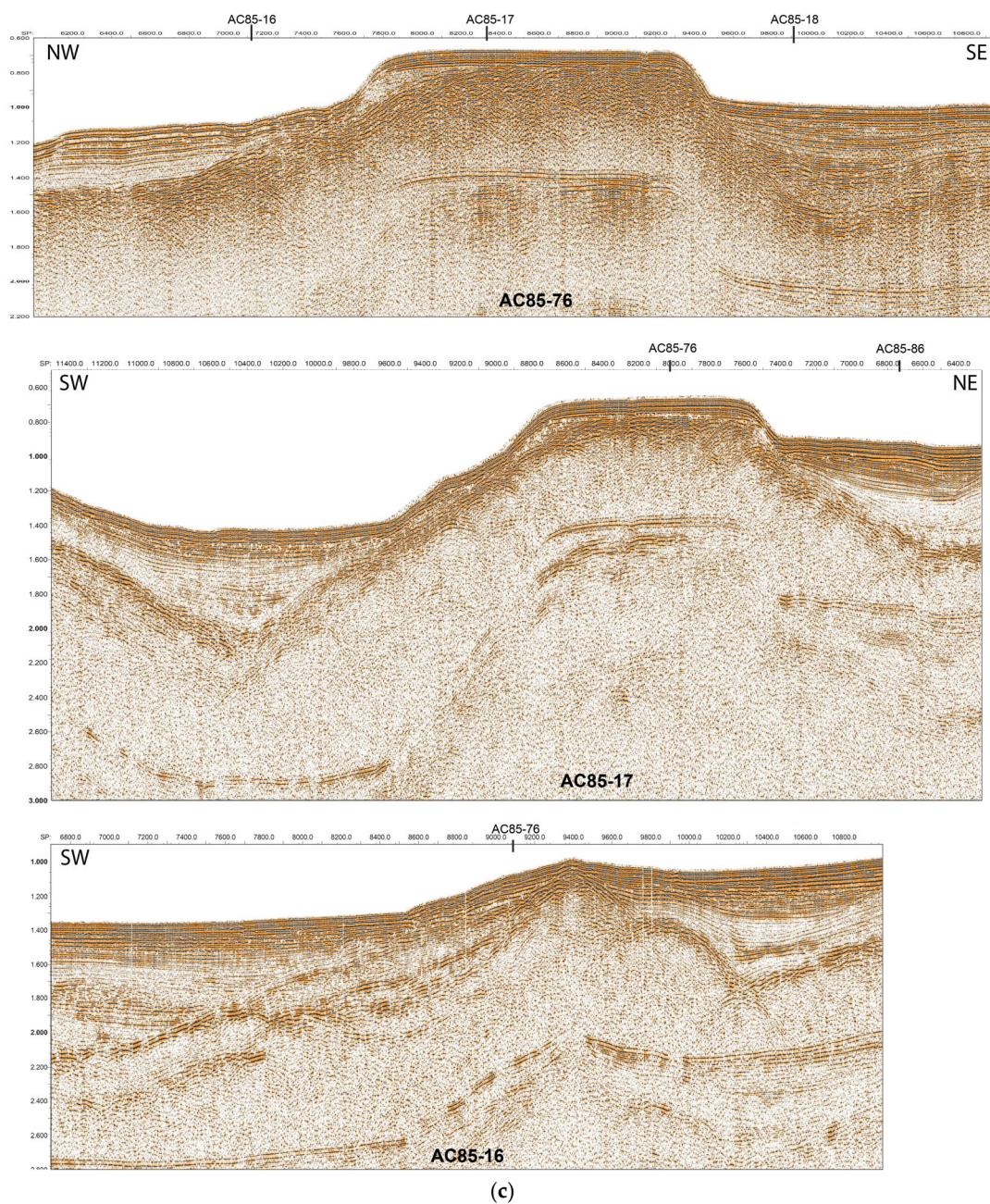


Figure S1. Sparker 30 kJ AC85-17, 16 and 76 sections not interpreted.

Id	Latitude	Longitude	Depth (m)	Perimeter (m)	Area (m²)	Internal depth (m)	Circularity
FS_001	11,7564600	41,7450613	521	629	29000	14	0,92
FS_002	11,7539201	41,7405214	522	423	13200	12	0,93
FS_003	11,7527421	41,7381301	522	403	12400	7	0,96
FS_004	11,7594854	41,7396285	520	449	15100	8	0,94
FS_005	11,7594437	41,7379643	522	431	14300	7,5	0,97
FS_006	11,7484156	41,7470663	511	284	5700	3,4	0,89
FS_007	11,7458196	41,7430670	513	303	7000	4,4	0,96
FS_008	11,7444719	41,7394887	529	679	34400	18	0,94
FS_009	11,7449762	41,7364260	521	289	6000	6	0,90
FS_010	11,7448223	41,7353170	520	281	5800	4	0,92
FS_011	11,7465774	41,7337349	520	347	8300	4,1	0,87
FS_012	11,7434116	41,7319594	521	373	10600	5,1	0,96
FS_013	11,7473066	41,7320097	523	361	10100	6,3	0,97
FS_014	11,7475868	41,7276839	524	522	19900	7,5	0,92
FS_015	11,7441297	41,7254952	524	483	16700	5,5	0,90
FS_016	11,7557743	41,7272801	533	453	15800	8	0,97
FS_017	11,7571447	41,7287721	531	375	10900	6,5	0,97
FS_018	11,7601401	41,7308899	552	738	41200	19,6	0,95
FS_019	11,7536690	41,7327491	554	1602	197500	29	0,97
FS_020	11,7615133	41,7318086	543	424	13600	13	0,95
FS_021	11,7626753	41,7307573	535	388	11300	7,6	0,94
FS_022	11,7629241	41,7352472	526	342	7500	6,7	0,81
FS_023	11,7674013	41,7369559	515	289	5800	5,5	0,87
FS_024	11,7687462	41,7401721	512	382	10400	4,4	0,90
FS_025	11,7430493	41,7291165	521	338	7000	2,7	0,77
FS_026	11,7460623	41,7287591	521	276	5700	3,8	0,94
FS_027	11,7476152	41,7428933	523	302	6400	3,7	0,88
FS_028	11,7674511	41,7353957	513	348	8600	3,7	0,89
FS_029	11,7752909	41,7370154	510	356	7500	2,4	0,74
FS_030	11,7785383	41,7362428	512	292	6500	3	0,96
FS_031	11,7804148	41,7352080	514	236	4100	2,9	0,92
FS_032	11,7797295	41,7336009	514	269	5400	2,5	0,94
FS_033	11,7670997	41,7374534	513	217	3200	2,3	0,85
FS_034	11,7658414	41,7261825	562	848	54700	12	0,96
FS_035	11,7671017	41,7320458	519	339	8800	5	0,96
FS_036	11,7791118	41,7323289	528	547	22600	11,7	0,95
FS_037	11,7729154	41,7289195	531	615	28700	14	0,95
FS_038	11,7447273	41,7529704	519	287	6300	3	0,96
Id	Latitude	Longitude	Depth	Perimeter	Area	Internal depth	Circularity

			(m)	(m)	(m ²)	(m)	
FS_039	11,7705293	41,7285697	549	649	31200	13	0,93
FS_040	11,7464509	41,7545473	525	252	4800	3	0,95
FS_041	11,7363704	41,7460795	526	259	5000	3,5	0,94
FS_042	11,7398611	41,7224745	528	358	9600	3	0,94
FS_043	11,7365209	41,7186668	539	283	5900	4	0,93
FS_044	11,7657017	41,7232262	605	1922	271100	71	0,92
FS_045	11,7632297	41,7205235	578	961	71600	25	0,97
FS_046	11,7648133	41,7200863	570	594	26700	15	0,95
FS_047	11,7533801	41,7253439	530	332	8300	4,5	0,95
FS_048	11,7556922	41,7245285	539	494	18700	11	0,96
FS_049	11,7575895	41,7240827	536	437	14200	8	0,93
FS_050	11,7467114	41,7176038	-567	858	56900	22	0,97
FS_051	11,7163313	41,7433533	563	352	9600	7	0,97
FS_052	11,7422278	41,7148370	581	838	53700	21	0,96
FS_053	11,7409504	41,7132440	576	393	11600	8	0,94
FS_054	11,7468450	41,7133435	582	576	25400	17	0,96
FS_055	11,7522994	41,7146651	568	321	8000	6	0,98
FS_057	11,7558895	41,7164940	545	256	4800	0,8	0,92
FS_057	11,7523603	41,7170180	541	458	14400	5	0,86
FS_058	11,7540147	41,7188661	545	396	11900	7,2	0,95
FS_059	11,7575936	41,7198993	543	493	17600	7,4	0,91
FS_060	11,7593594	41,7200776	540	295	6700	4	0,97
FS_061	11,7592248	41,7160676	550	234	4000	3,4	0,92
FS_062	11,7597277	41,7174956	547	312	7500	9,2	0,97
FS_063	11,7595422	41,7193424	537	423	13400	8	0,94
FS_064	11,7601306	41,7174378	544	424	13600	14	0,95
FS_065	11,7483597	41,7390893	517	366	9600	5	0,90
FS_066	11,7471810	41,7307569	523	370	9000	5,5	0,83
FS_067	11,7488551	41,7190050	541	296	6800	4,5	0,97
FS_068	11,7538462	41,7159725	558	243	4300	4	0,91
FS_069	11,7609035	41,7175100	541	241	4300	5	0,93
FS_070	11,7433358	41,7243372	520	169	2200	2,5	0,97
FS_071	11,7415826	41,7262612	519	209	2900	2,4	0,83
FS_072	11,7429052	41,7249306	521	223	3800	1,9	0,96
FS_073	11,7428977	41,7249141	521	143	1600	1,9	0,98
FS_074	11,7478551	41,7256964	521	153	1700	2	0,91
FS_075	11,7502950	41,7249133	523	255	5000	2	0,97
FS_076	11,7433497	41,7270654	522	305	7000	4,8	0,95
FS_077	11,7428279	41,7452637	512	165	2000	1,9	0,92
FS_078	11,7616319	41,7302381	541	325	7900	9,5	0,94

Table S1. Main geographical and geomorphological pockmarks parameters along the summit of the Flavia Seamount (FS), including: id, latitude, longitude, pockmark water

depth, pockmark perimeter, pockmark area, pockmark internal depth and pockmark circularity.

Id	Latitude	Longitude	Depth (m)	Perimeter (m)	Area (m²)	Internal depth (m)	Circularity
FB_001	41,7517125	11,7740793	631	216	3400	3	0,92
FB_002	41,7523998	11,7746593	640	241	4300	3,7	0,93
FB_003	41,7510927	11,7784641	656	263	5200	5,8	0,94
FB_004	41,7534465	11,7769487	651	249	4600	4	0,93
FB_005	41,7542216	11,7768656	654	299	6400	6	0,90
FB_006	41,7554498	11,7751872	660	269	5400	6,8	0,94
FB_007	41,7570693	11,7762700	663	366	10100	7	0,95
FB_008	41,7577798	11,7775296	663	319	7800	4,8	0,96
FB_009	41,7562444	11,7801394	657	359	9500	6	0,93
FB_010	41,7578157	11,7804084	659	313	7500	5	0,96
FB_011	41,7588353	11,7784010	665	271	5600	5	0,96
FB_012	41,7597625	11,7777989	673	353	9500	5	0,96
FB_013	41,7609296	11,7793280	670	263	4900	4,3	0,89
FB_014	41,7625309	11,7784369	679	329	8200	6	0,95
FB_015	41,7589666	11,7828555	664	347	9000	4,5	0,94
FB_016	41,7596924	11,7816726	664	309	7200	4	0,95
FB_017	41,7600221	11,7835376	667	361	9600	5	0,93
FB_018	41,7614013	11,7829595	672	292	6600	5,6	0,97
FB_019	41,7602001	11,7634445	672	430	14200	5,1	0,96
FB_020	41,7634445	11,7839356	677	261	4900	2	0,90
FB_021	41,7661548	11,7834038	687	159	1900	2	0,94
FB_022	41,7655672	11,7860043	682	221	3400	0,9	0,87
FB_023	41,7720164	11,7754335	723	307	7100	5	0,95
FB_024	41,7742757	11,7811234	722	172	2200	1,6	0,93
FB_025	41,7744517	11,7871189	711	196	2900	2	0,95
FB_026	41,7715124	11,7884447	699	249	4700	4	0,95
FB_027	41,7697882	11,7905355	692	370	10400	4,9	0,95
FB_028	41,7677200	11,7902594	684	317	7500	4,8	0,94
FB_029	41,7659591	11,7922199	681	280	6000	5	0,96
FB_030	41,7651325	11,7917463	676	223	3800	3,9	0,96
FB_031	41,7627641	11,7945345	680	302	6900	4	0,95
FB_032	41,7619959	11,7959803	680	308	7200	3,7	0,95
FB_033	41,7618095	11,7975683	680	299	6600	5	0,93
FB_034	41,7620355	11,8015473	679	229	3700	4	0,89
FB_035	41,7621244	11,8034393	678	155	1800	1	0,94
FB_036	41,7613146	11,8024965	676	158	1800	1,7	0,91
FB_037	41,7578284	11,7971683	673	328	7800	5,1	0,91
FB_038	41,7583241	11,8012184	673	301	7000	4	0,97
FB_039	41,7562270	11,8014301	670	268	5500	3	0,96
Id	Latitude	Longitude	Depth	Perimeter	Area	Internal depth	Circularity

			(m)	(m)	(m ²)	(m)	
FB_040	41,7544609	11,8006815	672	335	8400	4	0,94
FB_041	41,7562100	11,8047121	673	253	4900	2,9	0,96
FB_042	41,7528099	11,8051777	674	278	5700	1,9	0,93
FB_043	41,7466776	11,8033556	682	268	5400	3,1	0,94
FB_044	41,7458576	11,8029210	689	289	6300	4,3	0,95
FB_045	41,7481864	11,8135476	696	270	5600	3,2	0,96
FB_046	41,7468782	11,8161105	695	315	7300	3,6	0,92
FB_047	41,7448988	11,8154402	703	335	8500	3	0,95
FB_048	41,7387096	11,8221922	712	322	7800	3	0,94
FB_049	41,7446220	11,8198066	695	261	5100	1	0,94
FB_050	41,7449896	11,8215436	694	199	2800	1,6	0,89
FB_051	41,7544342	11,8115532	675	144	1500	2,9	0,91
FB_052	41,7543631	11,8149387	675	170	2200	1,9	0,96
FB_053	41,7686848	11,7969428	695	173	2300	2,9	0,97

Table S2. Main geographical and geomorphological pockmarks parameters along the ba-sin located east of the Flavia (FB), including: id, latitude, longitude, pockmark water depth, pockmark perimeter, pockmark area, pockmark internal depth and pockmark circularity.