

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
ACRAMAN, Australia clast-rich impact melt rock	32°01'S, 135°27'E donation of Martin Schmieder 01/2013	~ 590 Ma ACRA4/02.1	90 km slice 53 g
ALAMO, USA Impact breccia Impact breccia Impact breccia Impact breccia	37°30'N, 116°30'W Hancock Summit Hikohills Tempiute Mts. Tempiute Mts.	376 Ma ALAM2/01.1 ALAM2/01.2 ALAM2/01.3 ALAM2/01.4	no crater recognized fragment 236 g endcut 156 g endcut 219 g fragment 23 g
AMGUID, Aleria Glass	26°5'N, 4°23'E collected by R. Hobein, Hofgeismar, 03/2007	< 0.1 Ma AMGU4/03.1	0.45 km specimen 16,6 g
AOUELLOUL, Mauretania Glass bomb Glass bomb Aouelloul glass Aouelloul glass (donation of H. Eisenlohr) Aouelloul glass Aouelloul glass Aouelloul glass Aouelloul glass Aouelloul glass Aouelloul glass Aouelloul glass Aouelloul glass Aouelloul glass	20°15'N, 12°41'W collected by Prof. Mouou, Dakar collected by R. Hobein, Hofgeismar ex Monod collection, found 1957 ex Monod collection, found 1957 ex Monod collection, found 1957 ex Monod collection, found 1957	3.1 Ma 10.8 10.9 AOUE4/03.1 AOUE4/03.2 AOUE4/03.3 AOUE4/03.4 AOUE4/03.5 AOUE4/03.6 AOUE4/03.7 AOUE4/03.8 AOUE4/03.9 AOUE4/03.10	0.4 km individual 1.2 g individual 1.1 g individual 7.6 g fragment 3.2 g twisted fragment 12,8 g fragment 1,03 g fragment 1,05 g fragment 0,92 g fragment 6,2 fragment 6,6 fragment 4,0 fragment 2,9
ARAGUAINHA, Brazil Shockmetamorphic granite Shockmetamorphic granite Polymict breccia Shock-sheared quartz pebble Shattercone in sandstone of Furnace formation Hematite bomb Hematite bomb pseudo-shatter cone	16°47'S, 52°59'W Central up-lift donation of Elizabeth Zucolotto, RJ, 12/2012 donation of Elizabeth Zucolotto, RJ, 12/2012 donation of Elizabeth Zucolotto, RJ, 12/2012 (46A) donation of Elizabeth Zucolotto, RJ, 12/2012 (34A) donation of Elizabeth Zucolotto, RJ, 12/2012 (11A) donation of Elizabeth Zucolotto, RJ, 12/2012 (20A) donation of Elizabeth Zucolotto, RJ, 12/2012 (35A)	244 Ma ARAG1/01.1 ARAG1/01.2 ARAG2/03.1 ARAG1/01.3 ARAG1/02.1 ARAG1/01.4 ARAG1/01.5 ARAG0/01.1	40 km slice 8,3 g fragment 14 g fragment 10 g pebble 16 g fragment 101 g fragment 154 g fragment 68 g fragment 63 g
AZUARA, Spain Basalbreccia (donation of K. Ernstson) Basalbreccia (donation of K. Ernstson) Basalbreccia (finegrained) (donation of K. Ernstson) Basalbreccia (Portillo Variety) (donation of K. Ernstson) Dyke breccia (donation of K. Ernstson) Monomict limestone breccia (donation of K. Ernstson) Monomict limestone breccia (Jura) Monomict limestone breccia (Jura) Monomict quartzite breccia (Devonian) Monomict quartzite breccia (Devonian) Monomict quartzite breccia (Devonian) Monomict quartzite breccia (Devonian) with melt pools Monomict quartzite breccia (Devonian) with melt pools Mud breccia (donation of K. Ernstson) Polymict fragmental breccia with melt pools Polymict fragmental breccia with melt pools Polymict fragmental breccia with melt pools Polymict fragmental breccia with melt pools Quartzite breccia Quartzite breccia Quartzite breccia Quartzite with sub-parallel fractures and pock-marked surface Shockshared limestone (donation of K. Ernstson) Shockshared limestone (donation of K. Ernstson) Shockshared limestone (donation of P. Bockstaller) Shockshared quartzite (donation of K. Ernstson) Shockshared quartzite (donation of K. Ernstson) Shockshared quartzite (donation of K. Ernstson) Shockshared sandstone	41°10'N, 00°55'W Cucalon Cucalon Cucalon South of Fuendetodos Santa Cruz de Nogueras Pto. Minguez 200 m N Huerva bridge approx. 4 km N of Aguilon 200 m N Huerva bridge approx. 4 km N of Aguilon 500 m S of Nogueras 500 m S of Nogueras 500 m S of Nogueras 500 m S of Nogueras 500 m S of Nogueras Almonacid de la Cuba 500 m NW of Nogueras 500 m NW of Nogueras 500 m NW of Nogueras Quarry W of Herrera de los Navarros Quarry W of Herrera de los Navarros Quarry W of Herrera de los Navarros Near Rodenas, W of Peracense Pto. Minguez Pto. Minguez Pto. Minguez Olalla Olalla Olalla Quarry W of Herrera de los Navarros	32 Ma AZUA3/01.4 AZUA3/01.6 AZUA3/01.3 AZUA3/01.1 AZUA3/01.2 AZUA2/01.1 22.4 22.5 46.1 46.1a 46.1b 46.1c 46.1d 46.1e 46.1f 46.1g 46.1h AZUA3/01.5 11.2 AZUA2/03.2a AZUA2/03.2b AZUA2/03.3a AZUA2/03.3b 11.2 46.2 46.2a 46.2b 46.2c 46.2d AZUA1/01.1 AZUA2/01.2 AZUA2/01.3 AZUA2/01.7 AZUA2/01.4 AZUA2/01.5 AZUA2/01.6 45.1	30 km endcut 334 g endcut 436 g slice 688 g slice 615 g slice 363 g fragment 692 g cut fragment 1303 g cut fragment 2082 g cut fragment 1189 g thin section slice thin section cut fragment thin section cut fragment thin section slice slice 516 g cut fragment 1348 g thin section slice thin section cut fragment 1348 g cut fragment 2454 g thin section slice thin section cut fragment cobble 68 g fragment 222 g fragment 382 g fragment 109 g fragment 154 g fragment 268 g fragment 181 g fragment 1789 g
BARRINGER, Arizona, USA Impact glass Iron meteorites see meteorite list CANON DIABLO	35°02'N, 111°01'W	0.049 Ma BARR3/04.1	1.2 km fragment 4.3 g
BEAVER HEAD, Montana, USA Shatter cone in proterozoic sandstone	44°36'N, 113°0'W	~ 600 Ma BEAV1/02.1	15 km fragment 1594 g

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	Pseudotachylite		BEAV4/02.1	slice 82 g
BIGACH		48°30'N, 82°00'E	6 Ma	7 km
	Andesite breccia	crater wall [X4 ⁵ /M-X5 of Masaitis]	BIGA 1/01.1	fragment 116 g
BOLTYSH, Ukraina		48°45'N, 32°10'W	88 Ma	25 km
	Suevite		BOLT2/03.1	cut fragment 308 g
			BOLT2/03.1a	thin section
			BOLT2/03.1b	embedded cut fragment
			BOLT4/02.1	cut fragment 233 g
	Pseudotachylite		BOLT4/02.1a	thin section
			BOLT4/02.1b	cut fragment
BOSUMTWI CRATER, Ghana		6°32'N, 1°25'W	0.95 Ma	10.5 km
	Suevite (donation of U.Vetter, Hannover)	Road outcrop E of Boni River, 2.5 km N of Nkowi and 3.5 km E of Yamiyini	5.14	cut fragment 602 g
BOXHOLE, Australia		22°37'S, 135°12'E	0.03 Ma	0,185 km
	Monomict brecciated quartzite		BOXH2/01.1	slice 23 g
	Iron meteorites see meteorite list BOXHOLE			
BRENT, Ontario, Canada		46°5'N, 78°29'W	450 Ma	3.8 km
	Polymict crystalline fragmental breccia (donation of A.Theriault, Ottawa)		BREN2/04.1	drill core 250 g
	Polymict crystalline fragmental breccia		BREN2/04.1a/b	a-thin section b-cut fragment
	Monomict brecciated mesocratic garnet granitic gneiss (donation of A.Theriault, Ottawa)		BREN2/01.1	drill core 115 g
	Monomict brecciated mesocratic garnet granitic gneiss		BREN2/01.1a/b	a-thin section b-cut fragment
CARSWELL, Saskatchewan, Canada		58°28'N, 109°30'W	115 Ma	39 km
	Monomict siltstone breccia, partly hematized (donation of A.Theriault, Ottawa [DC-9-63-3])		CARS2/01.1	cut fragment 571 g cut fragment 43 g
	Monomict siltstone breccia, partly hematized		CARS2/01.1a/b	a-thin section b-slice
CHARLEVOIX, Quebec, Canada		47°32'N, 70°18'W	357 Ma	54 km
	Suevite (donation of A.Theriault, Ottawa [MBP-1-67])		CHAR3/07.1	cut fragment 707 g
	Shatter cone		CHAR1/02.1	fragment 205 g
	Shatter cone		CHAR1/02.2	fragment 657 g
	Granophyre breccia (donation of R. Tagle, Berlin [CHV06 RT3-4])	Mount les Eboulements	CHAR3/03.1	cut fragment 138 g
	Granophyre breccia (donation of R. Tagle, Berlin [CHV06 RT3-3])	Mount les Eboulements	CHAR3/03.2	slice 156 g
	Granophyre (donation of R. Tagle, Berlin [CHV06 RT2-9])		CHAR3/03.3	fragment 194 g
CHICXULUB, Mexico			65 Ma	190 km
	asphalt bearing limestone breccia	Lerma beach, Campeche, Yucatan, Mexico	Chic 1/01.1	cut fragment 61 g
	asphalt bearing limestone breccia	Lerma beach, Campeche, Yucatan, Mexico	Chic 1/01.1a	polished thin section
	asphalt bearing limestone breccia	Lerma beach, Campeche, Yucatan, Mexico	Chic 1/01.2	cut fragment 41 g
	Fish-clay (donation of D. Embgenbroich, Gifhorn)	Mandehoved, Stevnsklint, Danmark	Chic 1/01.2a	polished thin section
	Fish-clay boarder to cretaceous with galeritis sulcatoradiatus	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	Chic 1/01.3	cut fragment 10 g
	Fish-clay with shark tooth (Scaphanorhynchus tenuis)	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	Chic 1/01.3a	polished thin section
	Fish-clay with shark tooth (Oxyrhina lundgreni)	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.1	two fragm. 79 g
	Fish-clay / Cerithium limestone boarder	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.2	fragment 2394 g
	Fish-clay	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.4	fragment 118 g
	Fish-clay	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.3	fragment 562 g
	Fish-clay	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.5	fragment 141 g
	Fish-clay	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.6	fragments 1940 g
	Fish-clay	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.6a	powder <1 mm 92 g
	Fish-clay	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.6b	decalcinated fragments and powder >1 mm 90 g
	Fish-clay	Mandehoved, Stevnsklint, Danmark 55°19'45,0"N, 12°27'13,1"E	BI 23.6c	metallic separate
	Fish-clay (donation of D. Embgenbroich, Gifhorn)	Mandehoved, Stevnsklint, Danmark	BI 23.7	fragments 149 g
	Clay	Bidart, Hendaye, France	K/T 10.1	fragment 35.8 g
	Clay (Bjala-2B)	Bjala, Varna, Bulgaria	K/T 29.1	fragment 82 g
	Clay (Bjala-2B)	Bjala, Varna, Bulgaria	K/T 29.2	fragments,splinter and powder 58 g
	Clay (Bjala-2B)	Bjala, Varna, Bulgaria	K/T 29.3	fragments,splinter and powder 1382 g
	Clay (Bjala-2c)	Bjala, Varna, Bulgaria 42°51'58" N, 27°54'01" E	K/T 11.1	fragment 43.6 g
	Clay (Bjala-2c)	Bjala, Varna, Bulgaria 42°51'58" N, 27°54'01" E	K/T 11.2	4 fragments 82.4 g

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Clay (Bjala-2c)		Bjala, Varna, Bulgaria 42°51'58" N, 27°54'01" E	K/T 11.3	fragments, splinter and powder 23 g
Clay (Bjala-2c)		Bjala, Varna, Bulgaria 42°51'58" N, 27°54'01" E	K/T 11.4	fragments, splinter and powder 122 g
Clay		Kladorup, Vidin, Bulgaria 43°43'04" N, 22°39'39" E	K/T 12.1	3 fragments 11.6 g
Clay		Kladorup, Vidin, Bulgaria 43°43'04" N, 22°39'39" E	K/T 12.2	splinter and powder 38.6 + 31.2 + 22.6 g
Clay of 2nd layer (+2 m)		Kladorup, Vidin, Bulgaria 43°43'04" N, 22°39'39" E	K/T 12.3	4 fragments 13.3 g
Clay of 2nd layer (+2 m)		Kladorup, Vidin, Bulgaria 43°43'04" N, 22°39'39" E	K/T 12.4	splinter and powder 38.7 + 40 + 14.3 g
Clay		Kozya Reka, Asparukhovo, Varna, Bulgaria 42°57'40" N, 27°22'48" E	K/T 13.1	fragment 33 g
Clay		Kozya Reka, Asparukhovo, Varna, Bulgaria 42°57'40" N, 27°22'48" E	K/T 13.2	3 fragments 56.6 g
Clay		Kozya Reka, Asparukhovo, Varna, Bulgaria 42°57'40" N, 27°22'48" E	K/T 13.3	fragments and powder 21 g
Clay		Kosichino, Burgas, Bulgaria 42°49'10" N, 27°54'04" E	K/T 14.1	2 fragments 18.5 g
Clay		Kosichino, Burgas, Bulgaria 42°49'10" N, 27°54'04" E	K/T 14.2	splinter and powder 97.4 g
Limstone (donated by B.Ellwood, Baton Rouge [sample 37-40 OMAN])		Abat, Sur, Oman	K/T 15.1	4 fragments 6.5 g
Limstone (donated by B.Ellwood, Baton Rouge [sample 37-40 OMAN])		Abat, Sur, Oman	K/T 15.2	fragments and splinter 6.5 g
Marine clay (donation of G.J. Boeschoten, Amsterdam)		Geulhemmerberg Cave, Limburg, Netherlands	K/T 2.1	fragment 50 g
Marine clay (donation of G.J. Boeschoten, Amsterdam)		Geulhemmerberg Cave, Limburg, Netherlands	K/T 2.2	3 fragments 82 g
Continental clay (donation of A. Silverstein, Ft. Collins/CO)		Starkville south, Trinidad, Raton Basin, CO, USA 35°05'57" N, 104°31'15" W	K/T 3.1	fragment fixed with clear coat
Continental clay (donation of A. Silverstein, Ft. Collins/CO)		Starkville south, Trinidad, Raton Basin, CO, USA 35°05'57" N, 104°31'15" W	K/T 3.2	fragment 17 g
Continental clay (donation of A. Silverstein, Ft. Collins/CO)		Starkville south, Trinidad, Raton Basin, CO, USA 35°05'57" N, 104°31'15" W	K/T 3.3	fragments 125 g
Continental clay (donation of A. Silverstein, Ft. Collins/CO)		Starkville south, Trinidad, Raton Basin, CO, USA 35°05'57" N, 104°31'15" W	K/T 3.4	splinter and powder 60 g
Continental clay (donation of A. Silverstein, Ft. Collins/CO)		Starkville south, Trinidad, Raton Basin, CO, USA 35°05'57" N, 104°31'15" W	K/T 3.5	splinter and powder 9 g
Marine clay		Elendgraben, Austria	K/T 4.1	fragment 18 g
Marine clay		Gubbio, Contessa Highway, Perugia, Umbria, Italy 43°22'46.7"N, 12°33'44.1"E	K/T 5.10	fragments 404 g
Marine clay		Gubbio, Contessa Highway, Perugia, Umbria, Italy 43°22'46.7"N, 12°33'44.1"E	K/T 5.11	powder and fragments 459 g
Marine clay		Gubbio, Italia	K/T 5.2	splinter and powder 11 g
Marine clay		Gubbio, Contessa Highway, Perugia, Umbria, Italy 43°22'46.7"N, 12°33'44.1"E	K/T 5.3	fragment 65 g
Marine clay on cretaceous limestone		Gubbio, Contessa Highway, Perugia, Umbria, Italy 43°22'46.7"N, 12°33'44.1"E	K/T 5.4	cretaceous limestone with KTB clay 8 g
Marine clay		Gubbio, Contessa Highway, Perugia, Umbria, Italy 43°22'46.7"N, 12°33'44.1"E	K/T 5.5	fragment 47 g
Marine clay		Gubbio, Contessa Highway, Perugia, Umbria, Italy 43°22'46.7"N, 12°33'44.1"E	K/T 5.6	2 fragments 76.6 g
Marine clay		Gubbio, Contessa Highway, Perugia, Umbria, Italy 43°22'46.7"N, 12°33'44.1"E	K/T 5.8	2 fragments 62.8 g
Micro-tektites		Beloc, Haiti - 18°22'54"N, 72°35'00"W	K/T 6.1	clay sperules 1,2 g
Smectite-glass		Beloc, Haiti - 18°22'54"N, 72°35'00"W	K/T 6.2	fragments and splinter 0,5 g
Clay		Ager Basin, Catalonia, Spain	K/T 7.1	powder 1.08 g
Clay		Agost, Alicante, Spain	K/T 8.1	fragment 24.3 g
Clay from the bottom		Agost, Alicante, Spain	K/T 8.2	fragment 12.4 g
Marine clay		Agost, Alicante, Spain	K/T 8.3a	fragment 572 g
Marine clay		Agost, Alicante, Spain	K/T 8.3b	fragments and powder 730 g
Continental coal		Trochu, Alberta, Canada	K/T 9.1	fragments 18 g
Marine clay		Bottaccione Gorge, Gubbio, Perugia, Umbria, Italy 43°21'56.0"N, 12°34'57.6"E	K/T 16.1	powder and fragments 35.6 g
Marine clay		Poggio San Vicino, Frontale, Macerata, Marche, Italy 43°21'32.0"N, 13°5'0.4"E	K/T 17.1	fragment 6.2 g
Marine clay		Poggio San Vicino, Frontale, Macerata, Marche, Italy 43°21'32.0"N, 13°5'0.4"E	K/T 17.2	powder and fragments 15.5 g
Marine clay		Pietrelata Church, Acualangna, Pesaro e Urbino, Marche, Italy 43°39'13.9"N, 12°41'46.7"E	K/T 18.1	fragment 4.3 g
Marine clay		Pietrelata Church, Acualangna, Pesaro e Urbino, Marche, Italy 43°39'13.9"N, 12°41'46.7"E	K/T 18.2	powder and fragments 87 g
Top of cretaceous limestone (donation of A. Montanari, Furlo)		Pietrelata Church, Acualangna, Pesaro e Urbino, Marche, Italy	K/T 18.3	top of cretaceous limestone 355 g
Top of cretaceous limestone (donation of A. Montanari, Furlo)		Pietrelata Church, Acualangna, Pesaro e Urbino, Marche, Italy	K/T 18.4	top of cretaceous limestone 577 g
Marine clay		Quagliotti quarry, Poggio di Ancona, Marche, Italy 43°32'36.0"N, 13°36'31.0"E	K/T 19.1	4 fragments 10.7 g
Marine clay		Quagliotti quarry, Poggio di Ancona, Marche, Italy 43°32'36.0"N, 13°36'31.0"E	K/T 19.2	powder and fragments 209 g
Marine clay		Magdalena dei Fiori, Teramo, Abruzzi, Italy 42°44'47.9"N, 13°37'30.3"E	K/T 20.1	5 fragments 39.7 g

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Marine clay		Magdalena dei Fiori, Teramo, Abruzzi, Italy 42°44'47.9N, 13°37'30.3"E	K/T 20.2	powder and fragments 302 g
Marine clay		Frontale Quarry, Macerata, Mache, Italy 43°20'56.2"N, 13°5'51.2"E	K/T 21.1	2 fragments 71.7 g
Marine clay		Frontale Quarry, Macerata, Mache, Italy 43°20'56.2"N, 13°5'51.2"E	K/T 21.2	2 fragments 43.9 g
Marine clay		Frontale Quarry, Macerata, Mache, Italy 43°20'56.2"N, 13°5'51.2"E	K/T 21.3	2 fragments 39.8 g
Marine clay		Frontale Quarry, Macerata, Mache, Italy 43°20'56.2"N, 13°5'51.2"E	K/T 21.4	fragments 388 g
Marine clay		Frontale Quarry, Macerata, Mache, Italy 43°20'56.2"N, 13°5'51.2"E	K/T 21.5	powder and fragments 853 g
Top of cretaceous limestone with impact spherules (donation of A. Montanari, Furlo)		Frontale Quarry, Macerata, Mache, Italy	K/T 21.6	top of cretaceous limestone with impact spherules 1564 g
Top of cretaceous limestone with impact spherules (donation of A. Montanari, Furlo)		Frontale Quarry, Macerata, Mache, Italy	K/T 21.7	top of cretaceous limestone with impact spherules 612 g
Marine clay green		Petriccio, Acqualagna, Pesaro e Urbino, Marche, Italy 43°36'42.9"N, 12°38'48.5"E	K/T 22.1	fragment of green clay 156 g
Marine clay red		Petriccio, Acqualagna, Pesaro e Urbino, Marche, Italy 43°36'42.9"N, 12°38'48.5"E	K/T 22.2	fragment of red clay 252 g
Marine clay red		Petriccio, Acqualagna, Pesaro e Urbino, Marche, Italy 43°36'42.9"N, 12°38'48.5"E	K/T 22.3	fragment of red clay 254 g
Marine clay on cretaceous limestone		Petriccio, Acqualagna, Pesaro e Urbino, Marche, Italy 43°36'42.9"N, 12°38'48.5"E	K/T 22.4	cretaceous limestone with KTB clay 2845 g
Marine clay red		Petriccio, Acqualagna, Pesaro e Urbino, Marche, Italy 43°36'42.9"N, 12°38'48.5"E	K/T 22.5	fragments of red clay 1500 g
Marine clay green		Petriccio, Acqualagna, Pesaro e Urbino, Marche, Italy 43°36'42.9"N, 12°38'48.5"E	K/T 22.6	powder and fragments of green clay 102 g
Marine clay red		Petriccio, Acqualagna, Pesaro e Urbino, Marche, Italy 43°36'42.9"N, 12°38'48.5"E	K/T 22.7	powder and fragments of red clay 356 g
Marine clay		Petriccio, Acqualagna, Pesaro e Urbino, Marche, Italy 43°36'42.9"N, 12°38'48.5"E	K/T 22.8	powder and fragments 255 g
Marine clay		Knappengraben, Gams, Niederösterreich, Austria	K/T 23.1	2 fragments 6,3 g
Marine clay		Knappengraben, Gams, Niederösterreich, Austria	K/T 23.2	fragments and powder 9,1 g
Marine clay		Quarry Fonte d'Olio - Fonte d'Olio valley, Poggio di Ancona, Marche, Italy 43°32'21.4"N, 13°36'26.9"E	K/T 24.1	fragments and powder 10,5 g
Upper Tuff		Malvar, Arroyo de San Fernando, El Rosario, Baja California, Mexico 29°54,928'N, 115°25,680'W	K/T 25.1	fragment 1112 g
Upper Tuff		Malvar, Arroyo de San Fernando, El Rosario, Baja California, Mexico 29°54,928'N, 115°25,680'W	K/T 25.1a	fragment 42 g
Upper Tuff		Malvar, Arroyo de San Fernando, El Rosario, Baja California, Mexico 29°54,928'N, 115°25,680'W	K/T 25.1b	powder and fragments 79 g
Lower Tuff		Malvar, Arroyo de San Fernando, El Rosario, Baja California, Mexico 29°54,928'N, 115°25,680'W	K/T 25.2	fragment 298 g
Lower Tuff		Malvar, Arroyo de San Fernando, El Rosario, Baja California, Mexico 29°54,928'N, 115°25,680'W	K/T 25.2a	fragment 45 g
Lower Tuff		Malvar, Arroyo de San Fernando, El Rosario, Baja California, Mexico 29°54,928'N, 115°25,680'W	K/T 25.2b	fragments and splinter 957 g
Conglomerate 2		Malvar, Arroyo de San Fernando, El Rosario, Baja California, Mexico 29°54,928'N, 115°25,680'W	K/T 25.3	fragment 2832 g
Conglomerate 2		Malvar, Arroyo de San Fernando, El Rosario, Baja California, Mexico 29°54,928'N, 115°25,680'W	K/T 25.4	fragment 547 g
Marine Clay		Veintisiete de Enero, Colonet, Baja California, Mexico 31° 4,633'N, 116°18,630'W	K/T 26.1	fragment 139 g
Conglomerate		Veintisiete de Enero, Colonet, Baja California, Mexico 31° 4,633'N, 116°18,630'W	K/T 26.1	fragment 602 g
Marine Clay		Veintisiete de Enero, Colonet, Baja California, Mexico 31° 4,633'N, 116°18,630'W	K/T 26.1a	fragment 98 g
Conglomerate		Veintisiete de Enero, Colonet, Baja California, Mexico 31° 4,633'N, 116°18,630'W	K/T 26.1a	fragment 554 g
Marine Clay		Veintisiete de Enero, Colonet, Baja California, Mexico 31° 4,633'N, 116°18,630'W	K/T 26.1b	fragments and powder 467 g
Lapilli bed (donation of R. Tagle, Berlin)		Guayal, Mexico	K/T 34.1	fragment 153 g
Fish-clay (donation of Birger Schmitz, Lund)		Nye Klöv, Lønnerup, Jutland, Denmark 57°00'38,9"N, 8°49'10,7"E	K/T 27.1	fragment 114 g
Fish-clay (donation of Birger Schmitz, Lund)		Nye Klöv, Lønnerup, Jutland, Denmark 57°00'38,9"N, 8°49'10,7"E	K/T 27.1b	fragment 5 g
Fish-clay		Nye Klöv, Lønnerup, Jutland, Denmark 57°00'38,9"N, 8°49'10,7"E	K/T 27.1c	fragment 192 g
Fish-clay		Nye Klöv, Lønnerup, Jutland, Denmark 57°00'38,9"N, 8°49'10,7"E	K/T 27.1d	fragments and powder 190 g
Fish-clay		Kölbygard, Hunstrup, Jutland, Denmark 57°1'58,6"N, 8°48'24,1"E	K/T 28.1	fragment 75 g
Fish-clay		Kölbygard, Hunstrup, Jutland, Denmark 57°1'58,6"N, 8°48'24,1"E	K/T 28.2	fragment 49 g
Fish-clay		Kölbygard, Hunstrup, Jutland, Denmark 57°1'58,6"N, 8°48'24,1"E	K/T 28.3	fragment 35 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Fish-clay		Kølbygard, Hunstrup, Jutland, Denmark 57°1'58.6"N, 8°48'24.1"E	K/T 28.4	fragments and powder 407 g
Fish-clay		Karlstrup Quarry, Jutland, Denmark	K/T 29.1a	4 fragments 46 g
Fish-clay		Karlstrup Quarry, Jutland, Denmark	K/T 29.1b	fragments and powder 118 g
Marine clay		Zumaya,	K/T 31.1a	fragment 125 g
Marine clay		Zumaya,	K/T 31.1b	fragment 47 g
Clay		Bidart, Hendaye, France	K/T 10.2a	fragment 585 g
Clay		Bidart, Hendaye, France	K/T 10.2b	fragment 444 g
Clay		Bidart, Hendaye, France	K/T 10.2c	fragments and powder 26 g
Marine clay		Muskiz, Navarra, Spain 42°55'37.8" N, 1°44'33.7" W	K/T 32.1a	fragment of red KTB with grey tertiary clay 298 g
Marine clay		Muskiz, Navarra, Spain 42°55'37.8" N, 1°44'33.7" W	K/T 32.1b	fragment of red KTB clay 28 g
Marine clay		Muskiz, Navarra, Spain 42°55'37.8" N, 1°44'33.7" W	K/T 32.1c	fragments and powder of red KTB 1129 g
Marine marl		Muskiz, Navarra, Spain 42°55'37.8" N, 1°44'33.7" W	K/T 32.1d	fragment of red KTB marl 931 g
Marine marl		Muskiz creek, Navarra, Spain 42°55'47.1" N, 1°44'34.8" W	K/T 33.1	fragment 66 g
Marine marl		Muskiz creek, Navarra, Spain 42°55'47.1" N, 1°44'34.8" W	K/T 33.2	fragments and powder 1763 g
Marl-limestone breccia of basal unit		Dos Hermanos, Sta. Clara, Villa Clara, Cuba 22°24'34" N, 79°56'41" W	K/T 35.1	fragment (DH4 of J. L. Cobiella-Reguera) 113 g
Calcarenite		Las Peladas, Las Terrazas, Sierra del Rosario, Artemisa, Cuba, ~ 22°52'0" N, 82°56'43" W	K/T 36.1	fragment (SF23 of J. L. Cobiella-Reguera) 228 g
Breccia (Rudite) of Aptian-Albian cherts with shaly interbeds and Albian-Cenomanian limestones with black cherts, together with clasts from Albian-Cenomanian and Campanian-Maastrichtian carbonate banks (upper part of lower breccia member)		La Serafina, Las Terrazas, Sierra del Rosario, Artemisa, Cuba, ~ 22°51'17" N, 82°56'42" W	K/T 36.2	fragment 183 g
Breccia (Rudite) of Aptian-Albian cherts with shaly interbeds and Albian-Cenomanian limestones with black cherts, together with clasts from Albian-Cenomanian and Campanian-Maastrichtian carbonate banks and older units (upper part of lower breccia member)		La Serafina, Las Terrazas, Sierra del Rosario, Artemisa, Cuba, ~ 22°51'17" N, 82°56'42" W	K/T 36.3	fragment (SF3 of J. L. Cobiella-Reguera) 92 g
Breccia (Rudite) of Aptian-Albian cherts with shaly interbeds and Albian-Cenomanian limestones with black cherts, together with clasts from Albian-Cenomanian and Campanian-Maastrichtian carbonate banks and older units (upper part of lower breccia member)		La Serafina, Las Terrazas, Sierra del Rosario, Artemisa, Cuba, ~ 22°51'17" N, 82°56'42" W	K/T 36.4	fragment (SF2 of J. L. Cobiella-Reguera) 248 g
Calcarenite		La Serafina, Las Terrazas, Sierra del Rosario, Artemisa, Cuba, ~ 22°51'17" N, 82°56'42" W	K/T 36.5	fragment 270 g
Mudstone		La Serafina, Las Terrazas, Sierra del Rosario, Artemisa, Cuba, ~ 22°51'17" N, 82°56'42" W	K/T 36.6	fragment 71 g
Clayey silt, Moncada-Ancon-Fm. U5		Moncada, Penar del Rio, Cuba 22°33'15" N, 83°50'41" W	K/T 37.1	cut fragment 1257 g
Limestone with Ir-enrichment / sandstone, Moncada-Ancon-Fm.		Moncada, Penar del Rio, Cuba 22°33'14" N, 83°50'43" W	K/T 37.2	fragments 59 g
Spherules-rich calcareous sandstone, Moncada Fm. Basis U1		Moncada, Penar del Rio, Cuba 22°33'14" N, 83°50'43" W	K/T 37.3	2 fragments 55 g cut fragment 109 g
Spherules-rich calcareous sandstone with oxidized iron vein, Moncada Fm. Basis U1		Moncada, Penar del Rio, Cuba 22°33'14" N, 83°50'43" W	K/T 37.4	fragment 34 g
Sandstone, Moncada Fm. U1-U2 transition zone		Moncada, Penar del Rio, Cuba 22°33'14" N, 83°50'43" W	K/T 37.5	fragment 360 g
Limestone, Ancon Fm.		Moncada, Penar del Rio, Cuba 22°33'14" N, 83°50'43" W	K/T 37.6	cut fragment 96 g
"Molten ejecta fused to terrestrial stone"		Texas		slice 23 g
"iron iridium spherules"		Texas		slice 57 g
"iron iridium spherules"		Texas		slice 41 g
"iron iridium breccia melt droplets"		Texas		slice 163 g
"molten ejecta"		Texas		nodule 21 g
"molten ejecta"		Texas		nodule 21 g
"zircon quartz spherules"		Texas		cut fragment 136 g
CLEARWATER WEST, Quebec, Canada		56°13'N, 74°30'W	290 Ma	32 km
Granophyre breccia (donation of A.Theriault, Ottawa [DCW-9-62])			CLEW3/02.1	thick slice 467 g
COUTURE, Quebec, Canada		60°8'N, 75°20'W	430 Ma	8 km
Polymict crystalline fragmental breccia (donation of A.Theriault, Ottawa [DLC-6-63-D])			COUT2/04.1	cut fragment 413 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
CLEARWATER WEST, Quebec, Canada		56°13'N, 74°30'W	290 Ma	32 km
Target rock		donation of Martin Schmieder 01/2013	DALG0/00.1	fragment 375 g
sandstone breccia		donation of Martin Schmieder 01/2013	DALG2/01.1	slice 56 g
DARWIN, Tasmania, Australia		42°15'S, 145°36'E	0.7 Ma	1 km
Darwin glass		Eastern slope	17.1	
Darwin glass		Eastern slope	17.2	
Darwin glass		Eastern slope	17.3	
Darwin glass (donation of H.-D. Laatsch, Wolfsburg)			17.4	two fragm. 21 g
Darwin glass (donation of H.-D. Laatsch, Wolfsburg)			17.5	fragment 10 g
Darwin glass		near Ten Mile	MOUD4/02.1	twisted piece 5,8 g
Darwin glass			MOUD4/02.2	elongated piece 4,3 g
DECATURVILLE, Missouri, USA		37°54'N, 92°43'W	< 300 Ma	6 km
Colored breccia			DECA2/03.1	cut fragment 251 g
DEEP BAY, Saskatchewan, Canada		56°24'N, 102°59'W	150 Ma	10 km
Monomict brecciated gneiss, partly melted (donation of A. Theriault, Ottawa [DB-1-66-1507])			DEEP2/01.1	drill core 94 g
Monomict brecciated gneiss, partly melted			DEEP2/01.1a/b	a-thin section b-slice
DELLEN, Sweden		61°48'N, 16°48'E	90 Ma	20 km
Glass bomb		SW Norra Dellen shore, Skrottsand, Norrbonäset	10.7	cut bomb 122 g
Glass bomb with PDF in quartz		SW Norra Dellen shore, Skrottsand, Norrbonäset	10.7a 10.7b	thin section cut fragment
Granophyr - Freckled Dellenite (hyperstene andesite)		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	34.3	cut fragment 1177 g
Granophyr - Recrystallized Dellenite (hyperstene andesite)		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	34.4	fragment 708 g
Granophyr with heulandite - Recrystallized Dellenite (hyperstene andesite)		N Södra Dellen shore, E of Batlennigen	34.5	fragment 378 g
Granophyr-bomb		S Norra Dellen shore, Bathusviken, Norrbonäset	4.2	flat bomb 132 g
Pseudotachylit - Perlitic Dellenite (hyperstene andesite glass)		W of Ängena, Norrbonäset (61°50,94'N, 16°41,83'E)	7.7	cut fragment 5714 g
Pseudotachylit - Perlitic Dellenite (hyperstene andesite glass)		W of Ängena, Norrbonäset (61°50,94'N, 16°41,83'E)	7.7a 7.7b	thin section cut fragment
Pseudotachylit - Spherulitic Dellenite (hyperstene andesite glass)		W of Ängena, Norrbonäset (61°50,94'N, 16°41,83'E)	7.8	fragment 3814 g
Pseudotachylit - Spherulitic Dellenite (hyperstene andesite glass) with quartz inclusions		W of Ängena, Norrbonäset (61°50,94'N, 16°41,83'E)	DELL4/02.2	slice 38 g
Pseudotachylite - Freckled Dellenite (hyperstene andesite)		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	DELL4/02.1a DELL4/02.1b	thin section cut fragment
Pseudotachylitic crystalline breccia		S Norra Dellen shore, Bathusviken, Norrbonäset	35.5	cut fragment 4609 g
Pseudotachylitic crystalline breccia		S Norra Dellen shore, Bathusviken, Norrbonäset	35.6	cut fragment 536 g
Pseudotachylitic crystalline breccia		W of Ängena, Norrbonäset	35.7	cut fragment 6865 g
Shattercone in gneiss		N Södra Dellen shore, E of Batlennigen	1.7	fragment 22 g
Shattercones in gneiss		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	1.6	fragment 1157 g
Shock-metamorphic gneiss with shatter cone		S Norra Dellen shore, Bathusviken, Norrbonäset	31.2	cut fragment 579 g
Shock-metamorphic gneiss with melt pools and PDF in quartz		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	DELL1/01.1a DELL1/01.1b	thin section slice
Shock-metamorphic granite		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	14.5	cut fragment 1498 g
Shock-metamorphic granite with melt pools and PDF in quartz		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	DELL1/01.2a DELL1/01.2b	thin section cut fragment
Shock-metamorphic granite		Uvberget top, E of Bricka, W Dellen rim	14.6	fragment 2160 g
Shock-metamorphic granite		Uvberget top, E of Bricka, W Dellen rim	14.7	fragment 1197 g
Shock-metamorphic quartz		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	13.3	cut fragment 950 g
Shock-metamorphic quartz		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	13.4	fragment 508 g
Shock-metamorphic quartz		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	DELL1/01.3a DELL1/01.3b	thin section cut fragment
Suevit		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	DELL3/07.1a DELL3/07.1b	thin section slice
Tuffitic kristalline polymict breccia (Tagamite) with PDF in quartz		S Norra Dellen shore, Bathusviken, Norrbonäset	DELL3/05.1a DELL3/05.1b	thin section cut fragment
Tuffitic kristalline polymict breccia (Tagamite) with PDF in quartz		S Norra Dellen shore, Bathusviken, Norrbonäset	DELL3/05.2a DELL3/05.2b	thin section cut fragment
Tuffitic kristalline polymict breccia (Tagamite)		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	DELL3/05.3a DELL3/05.3b	thin section cut fragment
Tuffitic kristalline polymict breccia (Tagamite) with PDF in quartz		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	DELL3/05.4a DELL3/05.4b	thin section slice
Tuffitic kristalline polymict breccia		S Norra Dellen shore, Bathusviken, Norrbonäset	37.1	cut fragment 632 g
Tuffitic kristalline polymict breccia		S Norra Dellen shore, Bathusviken, Norrbonäset	37.2	cut fragment 333 g
Tuffitic kristalline polymict breccia		SW Norra Dellen shore, Skrottsand, Norrbonäset	37.3	cut fragment 678 g
Tuffitic kristalline polymict breccia		SW Norra Dellen shore, Skrottsand, Norrbonäset	37.4	cut fragment 239 g
Tuffitic kristalline polymict breccia		SW Norra Dellen shore, Skrottsand, Norrbonäset	37.5	cut fragment 170 g
Tuffitic kristalline polymict breccia (Koptoklastite)		SW Norra Dellen shore, Skrottsand, Norrbonäset	DELL3/06.1a DELL3/06.1b	thin section cut fragment
Tuffitic kristalline polymict breccia		S Norra Dellen shore, Syltaudden, Norrbonäset (61°51,60'N, 16°41,88'E)	37.6	cut fragment 643 g
Tuffitic kristalline polymict breccia		N Södra Dellen shore, E of Batlennigen	37.7	cut fragment 68 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	COORDINATES	AGE	DIAMETER
IMPACT ROCK	LOCALITY	BI-No.	Specimen
Impact melt breccia probable from Dellen	SK gravel pit near Westerbeck, Gifhorn, Germany about 1100 km SSW of the structure 52°31'05" N, 10°38'53" E	BP-G 0066	cut piece 247 g 2 polished thin sections 2 endcuts 35 g
DHALA, India	25°17'59.7"N, 78°8'3.1"E	1.6 - 2.5 Ma	11 km
Monomict clastic granite breccia		DHAL2/01.1	silice 51 g
Monomict clastic granite breccia		DHAL2/01.2	silice 17 g
Monomict granite melt breccia		DHAL3/01.1	silice 48 g
Polymict clastic breccia		DHAL2/04.1	silice 29 g
ELGYGYTGYN, Russia	67°30' N, 172°5' E	3.5 Ma	18 km
Glass bomb (donation of E.P. Gurov, Kiev)		10.6	flat individual 67 g
FLYNN CREEK, Tennessee, USA	36°17' N, 85°40' W	360 Ma	3.6 km
Limestone breccia		FLYN 02/01.1	slice 137 g
polymict sedimentary breccia (dolomit with shale calsts)		FLYN 02/02.1	cut fragment 256 g
turbid quartz nodule		FLYN 0X	cut nodule 531 g
GARDNOS, Norway	60°39'N, 9°00'E	400 Ma	5 km
Shock-metamorphic gneis-granite		GARD1/01.1	cut fragment 176 g
Shock-metamorphic gneis-granite		GARD1/01.2	cut fragment 368 g
Crystalline breccia (Gardnos Breccia)	Tunnel	GARD2/01.1	cut fragment 4693 g
Crystalline breccia (Gardnos Breccia)	Tunnel	GARD2/01.2	cut fragment 352 g
Crystalline breccia (Gardnos Breccia)		GARD2/01.3	slice 165 g
Crystalline breccia (Gardnos Breccia) with PDF in quartz and feldspar		GARD2/01.4a	thin section
Crystalline breccia (Gardnos Breccia) (donation of Schmidt, Gifhorn)	Tunnel	GARD2/01.4b	endcut
Crystalline breccia (Gardnos Breccia) (donation of Schmidt, Gifhorn)	Tunnel	GARD2/01.5	cut fragment 242 g
Crystalline breccia (Gardnos Breccia) (donation of Schmidt, Gifhorn)	Tunnel	GARD2/01.6	cut fragment 311 g
Crystalline breccia (Gardnos Breccia) (donation of Schmidt, Gifhorn)	Tunnel	GARD2/01.7	slice 106 g
Suevite with PDFs in quartz	60°38,3' N, 9°0,8' E	GARD3/07.1a+b GARD3/07.1c GARD3/07.1d	cut fragments 51 + 50 g thin section cut section
Suevite with PDFs in quartz (donation of R. Tagle, Berlin)	60°38'1" N, 9°1'15" E	GARD3/7.2	fragment 494 g
Black matrix breccia (donation of M.Bilet, As)	Tunnel	GARD2/01.8	cut fragment 220g
Lithic breccia (Gardnos Breccia + black matrix breccia) (donation of M.Bilet, As)	Tunnel	GARD2/01.9	cut fragment 909 g
Crystalline breccia with pyrrhotite? (Gardnos Breccia) (donation of Schmidt, Gifhorn)	Tunnel	GARD2/01.10	cut fragment 658 g
Granite with calcite vein and pyrrhotite? impregnation in cracks and PDFs in quartz (donation of Schmidt, Gifhorn)	Tunnel	GARD2/01.11a GARD2/01.11b	cut fragment 693 g thin section
Crystalline breccia (Gardnos Breccia)		GARD2/01.12	slice 83 g
Crystalline breccia (Gardnos Breccia)		GARD2/01.13	slice 168 g
Melt matrix breccia		GARD3/01.1	slice 266 g
Suevite	60°38'7" N, 9°00'39,9" E	GARD3/7.3	cut fragment 170 g
Suevite	60°38'5,4" N, 9°00'36" E	GARD3/7.4	cut fragment 79 g
GLOVER BLUFF, Wisconsin USA	43°58' N, 89°32' W	< 500 Ma	10 km
Dolomite breccia		GLOV 2/01.1	slice 84 g
GOSES BLUFF, Northern Territory, Australia	23°50' S, 132°19' E	142 Ma	22 km
Monomict sandstone breccia		GBLU 02/01.1	slice 83 g
Monomict sandstone breccia		GBLU 02/01.2	slice 21 g
Monomict sandstone breccia		GBLU 02/01.3	slice 25 g
Monomict sandstone breccia		GBLU 02/01.4	slice 22 g
Monomict quartzite breccia		GBLU 02/01.5	cut fragm. 58 g
Monomict quartzite breccia		GBLU 02/01.6	cut fragm. 2,5 g
Shatter cone in quartzite		GBLU 01/02.1	fragment 64 g
clast-rich impact melt rock	Mt. Pyroclast (donation of Martin Schmieder 01/2013)	GBLU4/02.1	slice 36 g
GRANBY, Sweden	58°25' N, 14°56' E	470 Ma	3.0 km
Shocked granite		GRAN1/01.1	slice 145 g
Shocked granite		GRAN1/01.1a/b	a-thin section, b-slice
Shocked granite		GRAN1/01.2	polished slice 268 g
HENBURY, Australia	24°34' S, 133°10' E	<0.01 Ma	0.16 km
Henbury glass, nickelferrous (0.28 % NiO), gray		16.1	cut fragm. 9 g
Henbury glass, nickelferrous (0.28 % NiO), black		16.2	fragment 18 g
Henbury glass, nickelferrous (0.28 % NiO), black		16.3	cut fragm. 21 g
Henbury glass with black fusion crust (donation of mr. Mensing)		HENB 4/03.1	fragment 0.9 g
Quartzite-sandstone breccia (country rock?)	200 m from the 2nd largest crater	HENB 0/0.1	cut fragm. 7,7 g
Quartzite-limonite breccia (donation of Olaf Gabel)		HENB 0/0.1a	thin section
Henbury glass		HENB 0/0.2	slice. 28,3 g
Henbury glass		HENB3/03.2	black glass piece 1,2 g
Iron meteorites see meteorite list <i>Henbury</i>		HENB3/03.3	black glass piece 1,1 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
HAUGHTON, Northwest Territories, Canada		75°22' N, 89°41' W	21 Ma	20.5 km
	Shatter cone in limestone (donation of A.Theriault, Ottawa [HAU-15-77B])		HAUG1/02.1	fragment 467 g
	Coloured breccia (donation of A.Theriault, Ottawa [Haughton 1])		HAUG2/03.1	cut fragment 221 g
	Coloured breccia		HAUG2/03.1a/b	a-thin section, b-slice
HOBA, Namibia		19°35' S, 17°55' E		
	deformed dolomite nodule		HOBA 1/01.1	cut nodule 14 g + 10 g
	polymict breccia (dolomite with quartz)		HOBA 2/02.1	cut fragment 4 g
	iron shale			fragment 39 g
	Iron meteorite see meteorite list <i>Hoba</i>			
HOLLEFORD, Ontario, Canada		44°28' N, 76°38' W	550 Ma	2.3 km
	Impact melt breccia (donation of A.Theriault, Ottawa [EBH-2-65B])		HOLL3/01.1	cut fragment 192 g
	Impact melt breccia		HOLL3/01.1a/b	a-thin section, b-cut fragment
	Polymict crystalline fragmental breccia (donation of A.Theriault, Ottawa [H1 783])		HOLL2/04.1	drill core 292 g
	Polymict crystalline fragmental breccia		HOLL2/04.1a/b	a-thin section, b-cut drill core
HOWELL, USA		35°14' N, 86°36' W	~ 350 Ma	1,6 km
	Limestone breccia		HOWE1/01.1	fragment 10 g
	Limestone breccia		HOWE1/01.2	fragment 2 g
	Limestone breccia	35°13'48"N, 86°36'40"W	HOWE1/01.3	cut fragment 594 g
HUMMELN, Sweden		57°24' N, 16°12' E	470-460 Ma	1.2 km
	Granite breccia		HUMM1/01.1	cut fragment 354 g
	Granite breccia		HUMM2/01.1a/b	a-thin section, b-slice
	Granite breccia		HUMM2/01.1c/d	c-thin section, d-slice
	Smaland granite with bent plagioclase twin lamellae (impakt?) perhaps from Hummeln	ISV gravel pit near Osloss, Gifhorn, Germany 52°28'42" N, 10°39'18" E	BP-G 0167	cut piece polished thin section
	Sandstone breccia	south shore of lake Hummeln, 57°21'50.9"N, 16 °15'48.9"E	HUMM2/01.2	cut fragment 891 g
	Sandstone breccia	south shore of lake Hummeln, 57°21'50.9"N, 16 °15'48.9"E	HUMM2/01.3	slice 1291 g
	Granite breccia	Humlenäs (57°21'53"N, 16°1'45"E - donation from Hildegard Wilske, Flensburg)	HUMM2/01.4	fragment 1071 g
	Granite breccia	Humlenäs (57°21'53"N, 16°1'45"E - donation from Hildegard Wilske, Flensburg)	HUMM2/01.5	fragment 1463 g
	Granite breccia	Humlenäs (57°21'53"N, 16°1'45"E - donation from Hildegard Wilske, Flensburg)	HUMM2/01.6a HUMM2/01.6b HUMM2/01.6c	fragment 1652 g covered thin section cut fragment 0,8 g
ILUMETSU, Estonia		58°58' N, 27°25' E	< 0.002 Ma	0.08 km
	Sandstone	crater wall	ILUM 0/01.1	fragment 169 g
ILYINETS, Ukraine		49°06' N, 29°12' E	395 Ma	4.5 km
	Impact melt rock		ILY14/01.1	cut fragment 209 g
	Limestone breccia		ILY11/01.1	cut fragment 256 g
	Pseudotachylite (donation of E.Gurov, Kiev)		ILY13/01.1	cut fragment 453 g
	Pseudotachylite (donation of E.Gurov, Kiev)		ILY13/01.1a	thin section
			ILY13/01.1b	slice
			ILY13/01.2	cut fragment 305 g
	Pseudotachylite with PDFs and isotropic quartz		ILY13/01.2a	thin section
			ILY13/01.2b	cut fragment
	Suevite (donation of E.Gurov, Kiev)		ILY13/07.1	cut fragment 419 g
	Suevite (donation of E.Gurov, Kiev)		ILY13/07.1a	thin section
			ILY13/07.1b	slice
	Suevite with PDFs and isotropic quartz		ILY13/07.2	cut fragment 165 g
			ILY13/07.2a	thin section
			ILY13/07.2b	cut fragment
	Glass bomb, weathered (donation of E.Gurov, Kiev)		ILY14/03.1	cut fragment 368 g
	Glass bomb, weathered (donation of E.Gurov, Kiev)		ILY14/03.1a	thin section
			ILY14/03.1b	slice
	Glass bomb, weathered		ILY14/03.2	fragment 218 g
	Granophyre bomb (donation of E.Gurov, Kiev)		ILY14/03.2	cut fragment 23 g
JANISJÄRVI, Russia		61°58' N, 30°55' E	700 Ma	14 km
	Tagamite, recrystallized	West shore of Iso Selkäsaari-island in Janisjärvi	JANI3/05.1	cut fragment 77 g
	Tagamite, recrystallized	West shore of Iso Selkäsaari-island in Janisjärvi	JANI3/05.1a/b	a-thin section, b-cut fragment
	Tagamite (donation of D. Sedilenkow, Moscow)	Island in Janisjärvi	JANI3/05.2	cut fragment 251 g
	Tagamite (donation of D. Sedilenkow, Moscow)	Island in Janisjärvi	JANI3/05.2a/b	a-thin section, b-cut fragment
JABAL WAQF AS SUWWAN, Jordania		31°03' N, 36°48' E	37 - 56 Ma	5.5 km
	Shatter cone in sandstone	Central up-lift (donation of Gisela Pösges 09/2012)	JWAS 1/02.1	fragment 303 g
KAALI, Estonia		58°24' N, 22°40' E	0.008 Ma	< 0.11 km
	Dolomite from upturned beds (donation of W. Judenhagen, Wolfsburg)	North rim of main crater	KAAL1/01.1	fragment 148 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
	Dolomite fragment of fractured basement	South rim of crater no. 7	KAAL1/01.2	fragment 863 g
	Dolomite with meteoritic inclusions	South rim of crater no. 7	KAAL1/01.3	five fragments of 0.48, 0.50, 0.36, 0.13 and 0.05 g
	charcoal from the meteorite layer	South rim of crater no. 7	KAAL1/01.4	fragments 0,27 g
KALKKOP, South Africa		32°42'30"S, 24°26'E	250 Ma	0.6 km
	Chert	Dig 1, ~0.7 m below surface 32°42.467'S, 24°25.748'E	KALK 0/0.1	fragment 1650 g
	Limestone crater fill	Dig 1, ~1 m below surface 32°42.467'S, 24°25.748'E	KALK 0/0.2	fragment 1559 g
	Limestone crater fill	~2 m below surface 32°42.467'S, 24°26.092'E	KALK 0/0.3	fragment 212 g
	Limestone crater fill	highest point of structure 32°42.401'S, 24°26.071'E	KALK 0/0.4	fragment 551 g
	Limestone crater fill	Dig 2, above breccia 32°42.608'S, 24°25.879'E	KALK 0/0.5	fragment 563 g
	Limestone crater fill	Dig 2, below breccia 32°42.608'S, 24°25.879'E	KALK 0/0.6	fragment 215 g
	Limestone-shale braccia	Dig 2, below breccia 32°42.608'S, 24°25.879'E	KALK 0/01.1 KALK 0/01.1b	fragment 2452 g polished thin section
KAMENSK, Russia		48°20'N, 40°15'E	71 Ma	25 km
	Monomict limestone breccia		KAME2/01.1	slice 46 g
	Shatter cone in limestone		KAME1/02.1	fragment 40 g
KÄRDLA, Estonia		59°00'N, 22°42'E	455 Ma	4 km
	Granitoid polymict breccia (donation of V. Puura, Tartu)	bore hole K-18, central uplift, depth 381.2 m	KÄRD 2/11.1	slice from drill core 10 g
	Granite-amphibolite polymict breccia (donation of V. Puura, Tartu)	bore hole K-18, central uplift, depth 386.5 m	KÄRD 2/11.2	drill core 8 g
	Monomict subcrater breccia (donation of V. Puura, Tartu)	bore hole K-18, central uplift, depth 400.5 m	KÄRD 2/04.1	part drill core 25 g
	Monomict subcrater breccia (donation of V. Puura, Tartu)	bore hole K-18, central uplift, depth 414.9 m	KÄRD 2/04.2	drill core 13 g
KARA, Russia		69°05'N, 64°18'E	73 Ma	65 km
	Suevit (donation of D. Sedilenkow, Moscow)	Saayaha Zuit river	KARA 2/02.1	cut fragment 267 g
	Suevit with PDF (donation of D. Sedilenkow, Moscow)	Saayaha Zuit river	KARA 2/02.1a/b	a-thin section, b-cut fragment
	Suevit		KARA 2/02.2	cut drilling core 68 g
	Shatter cone (donation of D. Sedilenkow, Moscow)		KARA 1/02.1	fragment 103 g
			KARA 3/05.1	cut fragment 192 g
	Tagamite (donation of S. Afanasiev, Moscow)		KARA 3/05.1a	thin section
			KARA 3/05.1b	cut fragments
			KARA 2/02.1	cut fragment 90 g
	Tagamite (donation of S. Afanasiev, Moscow)		KARA 2/02.1a	thin section
			KARA 2/02.1b	cut fragment
	Polymict kristalline breccia (donation of O. Gabel)		KARA 2/02.3	part bore core slice 28 g
KARIKOSÄLKÄ, Finland		62°13'N, 25°15'E	1,880 Ma	1,5 km
	granite breccia	W of Talasniemi	KARI2/01.1	cut fragment 150 g thin section and cut fragment
	Pseudotachylite veins in granite		KARI3/02.1	cut fragment 608 g
	Pseudotachylite veins in granite		KARI3/02.2	thin section and cut fragment
	Shockmetamorphic granite		KARI1/01.1	cut fragment 1032 g
	Shattercone in granite		KARI1/02.1	cut fragment 494 g fragment 4080 g
KARLA, Russia		54°55'N, 48°02'E	5 Ma	10 km
	Monomict limestone breccia		KARL2/01.1	slice 66 g
KENTLAND DISTURBANCE, U.S.A.		40°45'N, 87°24'W	<300 Ma	13 km
	Shattercone in limestone (donation of J. Schwade, Kankakee)		1.3	fragment 410 g
KEURUSSELKÄ, Finland		62°08'N, 24°36'E	1,880 Ma	9,5 km
	shatter cone (Donation of O. Gabel, Buchholz)	E of Kolho	KEUR1/02.1	fragment 55 g
	shatter cone (donation of J. Moilanen, Säräisniemi)	Kolho, 62°8.07' N, 24°40.2' E	KEUR1/02.2	fragment 739 g
	shatter cone (donation of J. Moilanen, Säräisniemi)	Kolho, 62°8.28' N, 24°37.8' E	KEUR1/02.3	fragment 334 g
LAC LA MOINERIE, Quebec, Canada		57°26'N, 66°37'W	400 Ma	8 km
	Granophyre breccia (donation of A. Theriault, Ottawa [11208a])		LACM3/03.1	cut fragment 505 g
LAKE MIEN, Sweden		56°25'N, 14°55'E	92 Ma	6 km
	Biotite syenogranite (un-shocked)	SW Gäddeviksas	BP 13.4	fragment
	Granophyre bomb	Gäddeviksas	4.3	cut fragment 79 g
	Granophyre bomb ("Flädle")	Gäddeviksas	10.4	three fragm. 260 g
	Granophyre breccia ("Mienite")	Gäddeviksas	15.2	cut fragment 614 g
	Granophyre breccia ("Mienite")	Gäddeviksas	15.5	cut fragment 3175 g
	Granophyre breccia ("Mienite")	Gäddeviksas	15.6	cut fragment 1032 g
	Monomict diorite breccia	Gäddeviksas	27.1	cut fragment 1573 g
	Polymict crystalline breccia	Gäddeviksas	15.4	slice 1825 g
	Polymict crystalline breccia	Gäddeviksas	5.9	cut fragment 531 g
	Polymict crystalline breccia	Gäddeviksas	6.11	cut fragment 2755 g
	Polymict impact melt breccia	Gäddeviksas	26.3	cut fragment 340 g

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STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
	Polymict impact melt breccia	Gäddeviksas	26.4	cut fragment 376 g
	Polymict impact melt breccia	Gäddeviksas	26.5	cut fragment 992 g
	Polymict impact melt breccia	Gäddeviksas	26.6	cut fragment 83 g
	Polymict impact melt breccia	Gäddeviksas	5.11	cut fragment 388 g
	Pseudotachylite breccia	Gäddeviksas	8.5	cut fragment 458 g
	Pseudotachylite breccia	Gäddeviksas	8.5a	thin section
	Pseudotachylite breccia	Gäddeviksas	8.5b	remnant slice of thin section
	Pseudotachylite breccia	Ramsö	LAKM 3/02.1	slice 238 g
	Pseudotachylite breccia	Ramsö	LAKM 3/02.2	slice 315 g
	Pseudotachylite breccia	Ramsö	LAKM 3/02.3	endcut 182 g
	Pseudotachylite breccia	Ramsö	LAKM 3/02.4	endcut 281 g
	Pseudotachylite breccia	Ramsö	LAKM 3/02.5	endcut 170 g
	Pseudotachylite breccia (granitic)	Gäddeviksas	6.13	cut fragment 1839 g
	Pseudotachylite breccia (granitic)	Gäddeviksas	6.13a	thin section
	Pseudotachylite breccia (granitic)	Gäddeviksas	6.13b	remnant slice of thin section
	Shatter cone in melt rock	Gäddeviksas	LAKM 1/02.1	fragment 183 g
	Shocked gneis	Gäddeviksas	31.1	cut fragment 45 g
	Shocked granite pegmatite	Gäddeviksas	33.1	fragment
	Shocked granite pegmatite xenolite	Gäddeviksas	29.1	cut fragment 936 g
	Shocked granite pegmatite xenolite	Gäddeviksas	29.1a	thin section
	Shocked granite pegmatite xenolite	Gäddeviksas	29.1b	remnant slice of thin section BI29.1a
	Shocked granite pegmatite xenolite	Gäddeviksas	29.1c	thin section
	Shocked granite pegmatite xenolite	Gäddeviksas	29.1d	remnant slice of thin section BI29.1c
	Shocked granite with melt veins	Gäddeviksas	30.1	cut fragment 282 g
	Suevit	Gäddeviksas	5.10	cut fragment 838 g
	Suevit	Gäddeviksas	5.15	cut fragment 397 g
	Suevit	Gäddeviksas	5.8	cut fragment 420 g
	Suevit	Ramsö	LAKM3/07.1	slice 609 g
	Tuffitic crystalline breccia	Gäddeviksas	28.1	2 cut fragments 72/104 g
	Tuffitic crystalline breccia	Gäddeviksas	6.12	cut fragment 1237 g
	Tuffitic crystalline breccia	Gäddeviksas	6.14	2 cut fragments 22/21 g
			LAKM3/05.1a	slice
	Tuffitic crystalline breccia (Tagamite)	Gäddeviksas	LAKM3/05.1b	thin section
			LAKM3/05.1c	thin section
	Granophyre breccia with lechatelierite and PDF in quartz probable from Lake Mien structure (donation of Lutz Förster, Bad Malente)	Braak, Eutin, Schleswig-Holstein in glacial deposit	Braak 100	cut fragment 12 g thin section
LAPPAJÄRVI, Finland		63°9'N, 23°42'E	77 Ma	12 - 14 km
	Kärnäite with pyrrhotite inclusions from impactor (donation of M.Lehtinen, Helsinki [331])		15.1	cut fragm. 522g/131 g
	Shock-metamorphic granite (donation of M.Lehtinen, Helsinki [93])		14.1	cut fragm. 357 g
	Shock-metamorphic quartz (donation of M.Lehtinen, Helsinki [262])		13.1	fragment 112 g
	Suevit (donation of M.Lehtinen, Helsinki [108])		5.4	cut fragm. 366 g
	Suevit (donation of M.Lehtinen, Helsinki [261b])		5.5	cut fragm. 231 g
	Shatter cone		LAPP1/02.1	fragment 125 g
LOCKNE, Sweden		63°00'N, 14°48'E	460 Ma	7-8 km
	Granite breccia (Tandsbyn breccia)	Gubban, outcrop at railway 700 m E of Gubban	40.1	cut fragment 2385 g
	Granite breccia (Tandsbyn breccia)	Gubban, outcrop at railway 700 m E of Gubban	40.2	cut fragment 418 g
	Granite breccia (Tandsbyn breccia)	Gubban, outcrop at railway 700 m E of Gubban	LOCK2/01.1a	thin section
			LOCK2/01.1b	cut fragment
	Granite breccia (Tandsbyn breccia)	Gubban, outcrop at railway 700 m E of Gubban	LOCK2/01.2a	thin section
			LOCK2/01.2b	cut fragment
	Granite breccia (Tandsbyn breccia)		LOCK2/01.3	slice 225 g
	Granite breccia (Tandsbyn breccia)		LOCK2/01.4	slice 351 g
	Melt rock bearing resurge breccia (Lofarstone arenite)	about 600 m E of Gubban, Tandsbyn	38.2	cut fragment 420 g
	Melt rock bearing resurge breccia (Lofarstone coarse arenite)	Gubban, outcrop E of railway crossing, Tandsbyn	38.1	cut fragment 1454 g
	Melt rock bearing resurge breccia (Lofarstone coarse arenite)	Gubban, outcrop W of railway crossing, Tandsbyn	38.3	fragment 622 g
	Melt rock bearing resurge breccia (Lofarstone coarse arenite)	Gubban, outcrop W of railway crossing, Tandsbyn	38.3a	thin section
			38.3b	cut fragment
	Resurge breccia (Lockne breccia)	Höggårde, outcrop at N45 2400 m N of Tandsbyn	39.1	cut fragment 2767 g
	Resurge breccia (Lockne breccia)	Höggårde, outcrop at N45 2400 m N of Tandsbyn	39.2	cut fragment 1690 g
	Resurge breccia (Lockne breccia)	Höggårde, outcrop at N45 2400 m N of Tandsbyn	39.3	cut fragment 2309 g
	Sediment rock resurge breccia (Lockne breccia) with crystalline fragments and impact-melt	Höggårde, outcrop at N45 2400 m N of Tandsbyn	LOCK2/09.1a	thin section
			LOCK2/09.1b	cut fragment
	Sediment rock resurge breccia (Lockne breccia)	Höggårde, outcrop at N45 2400 m N of Tandsbyn	LOCK2/09.2a	thin section
			LOCK2/09.2b	cut fragment
	Shock-metamorphic granite	Tand, outcrop at road Tandsbyn-Gottand 200 m S crossing N45	14.8	cut fragment 4373 g
	Shock-metamorphic granite	about 600 m E of Gubban, Tandsbyn	14.9	cut fragment 667 g
	Melt rock bearing resurge breccia (Lofarstone arenite) (donation of R. Tagle, Berlin)		38.4	fragment 1111 g
LONAR, India		19°58' N, 76°31' E	0,05 Ma	1.8 km
	Basalt with lithic fragments		LONA 0/01.1	slice 61 g
	Basalt with lithic fragments		LONA 0/01.2	slice 41 g
	Basaltic fall-out breccia with zeolites		LONA 2/05.1	slice 137 g
LUMPARN BAY, Finland		60°9' N, 20°6' E	1000 Ma	9 km

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STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
	Shatter cone in granite Aland granite		LUMP1/02.1 LUMP 0/01.1	fragment 4230 g slice 366 g
MANICOUAGAN, Quebec, Canada		51°23' N, 68°42' W	212 Ma	100 km
	Pseudotachylite breccia (donation of A.Theriault, Ottawa [MAN 1])		MANI3/02.1	cut fragment 1296 g
	Pseudotachylite breccia		MANI3/02.1a/b	a-thin section, b-cut fragment
	Pseudotachylite (donation of M. Schmieder, Stuttgart)	Ile Rene Levasseur	MANI3/02.2	cut fragment 28 g
	Pseudotachylite (donation of M. Schmieder, Stuttgart)	Ile Rene Levasseur	MANI3/02.3	slice 41 g
	Pseudotachylite breccia (donation of M. Schmieder, Stuttgart)	Ile Rene Levasseur	MANI3/02.4	slice 46 g
	Pseudotachylite breccia (donation of M. Schmieder, Stuttgart)	Ile Rene Levasseur	MANI3/02.5	slice 55 g
MANIITSOQ, Greenland		65°15' N, 51°50' W	3000 Ma	> 100 km
	Xenolith of quartz- and plagioclase-rich country rock in norite, with numerous decorated planar elements in several crystallographic orientations and distributions resembling those found in PDFs	65°12,840'N, 51°9,800'W. Garde et al. (2012) with measurements of orientations of planar elements, sample no. 257543 (sampled 1982)	MATQ1/01.1	cut fragment (permanent loan) 196 g
	Mylonite in finnefeld domain. Mechanically crushed rock with superimposed shearing. Displays sigmoidal clasts composed of crushed minerals (mainly plagioclase)	65°08,9779'N, 52°2,7282'W. Garde et al. (2012) with microphoto, sample no. 525318 (sampled 2011)	MATQ1/01.2	cut fragment (permanent loan) 234 g
	Post-kinematic dyke of Norite family. Affected by high-temperature hydration (probably during emplacement) but undeformed	65°11,0025'N, 52°8,1284'W. Berthelsen (1962) with field photograph. Sample no. 525333 (sampled 2011)	MATQ1/01.3	cut fragment (permanent loan) 159 g
	Orthogneiss, thoroughly hydrothermally altered at high P-T conditions, with a few relict, decorated planar features (former PDFs?) in quartz and abundant impact-related antiperthitic textures in plagioclase	64°32,6403'N, 51°25,1230'W. Sample no. 525374 (sampled 2011)	MATQ1/01.4	cut fragment (permanent loan) 338 g
MARQUEZ, Texas, USA		31°17' N, 96°18' W	~ 58 Ma	12.7 km
	Shatter cone in sandstone	Central up-lift (donation of Gisela Pösges 09/2012)	MARQ 1/02.1	fragment 205 g
MIDDLESBORO, Kentucky, USA		36°37' N, 83°44' W	< 300 Ma	6 km
	shock-metamorphic conglomerate	36°36'58"N, 83°43'45"W	MIDD1/01.1	fragment 996 g
MISARAI, Lithuania		54°01' N, 23°54' E	~570 Ma	5 km
	Polymict crystalline fragmental breccia (donation of G. Motuza, Vilnius [Lazd 29])	Lazdijai-29, 54°01'00"N, 23°55'17"E	MISA3/03.1	half drill core 135.3 g
	Melt bearing lithic impact breccia (donation of G. Motuza, Vilnius [Dz-1422])	Druskininkai-1422, 54°00'33"N, 23°57'14"E	MISA3/04.1	half drill core 106.8 g
MISHINA GORA, Russia		48°40' N, 27°25' E	< 360 Ma	4 km
	shatter cone in shocked granite	crater bottom, bore hole 3, depth 851 m	MISH1/02.1	part core 61 g
MISTASIN LAKE, Labrador, Canada		55°53' N, 63°18' W	38 Ma	28 km
	Granophyr, vesicular (donation of A.Theriault, Ottawa [LM-55A])		MIST4/03.1	cut fragment 240 g
	Suevit (donation of A.Theriault, Ottawa [LM-54O])		MIST3/07.1	cut fragment 345 g
MONTURAQUI, Chile		23°57' S, 68°17' W	1 Ma	370 m
	Melt rock with metallic spherules		32.1	cut fragm. 4,2 g
	Melt rock with metallic spherules		32.2	2 cut fragm. 15,8 g + 4,3 g
	Glass bomb with xenolites and metallic spherules		MONT 4/03.1	cut fragm. 14,6 g
	Glass bomb with xenolites and metallic spherules		MONT 4/03.2	cut fragm. 10,2 g
	Glass bomb		MONT 4/03.3	fragment 15,2 g
	Melt rock	donation from J. Gabaccetta	MONT 4/03.4	fragment 2,0 g
	Igimbrite	donation from J. Gabaccetta	MONT 1/01.1	drill core (3Tat) 10,9 g
	Granite	donation from J. Gabaccetta	MONT 1/01.2	cube (2c) 17,3 g
NEUGRUND, Estonia		59°20' N, 23°40' E	474 Ma	5 km
	Crystalline breccia	Rannaküla	NEUG2/01.1	cut fragment 34 g
	Crystalline breccia	Rannaküla	NEUG2/01.1a/b	a-thin section, b-cut fragment
	Crystalline breccia	Rannaküla	NEUG2/01.3	fragment 28 g
	Shock-metamorphic gneiss	Spithami	NEUG1/01.1	fragment cut 29 g
	Shock-metamorphic gneiss	Spithami	NEUG1/01.1a/b	a-thin section, b-cut fragment
	Crystalline breccia	Spithami	NEUG2/01.2	cut fragment 14 g
	Crystalline breccia	Spithami	NEUG2/01.2a/b	a-thin section, b-cut fragment
	Crystalline breccia	Spithami	NEUG2/01.4	cut fragment 28 g
	Coloured fragmental breccia (donation of V. Puura, Tartu)	boulder at Baltic Sea beach, Estonia	NEUG2/03.1	cut fragment 159 g
	Crystalline fragmental breccia (donation of V. Puura, Tartu)	boulder at Baltic Sea beach, Estonia	NEUG 2/04.1	cut fragment 158 g
	Crystalline fragmental breccia	Rannaküla, Nova Bay, Estonia 59°14'51,6"N, 23°39'36,5"E	NEUG 2/04.2	cut fragment 464 g
	Melt bearing crystalline breccia	Rannaküla, Nova Bay, Estonia 59°14'51,6"N, 23°39'36,5"E	NEUG 3/01.1	cut fragment 132 g
	Crystalline fragmental breccia	Cape Pöösaspea, Spithami, Nova Bay, Estonia 59°13'44,4"N, 23°30'30,9"E	NEUG 2/04.3	cut fragment 211 g
NICHOLSON LAKE, Northwest Territories, Canada		62°40' N, 102°41' W	<400 Ma	12.5 km
	Suevite (donation of A.Theriault, Ottawa [IDN-22-65B])		NICH3/07.1	cut fragment 173 g
NÖRDLINGER RIES, Germany		48°53' N, 10°37' E	14.8 Ma	21 - 24 km
	Coloured breccia	Quarry Bschor, Ronheim	8.1	fragment 204 g

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STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Coloured breccia		Quarry Bschor, Ronheim	8.2	fragment 198 g
Coloured breccia from crater wall		Quarry west of Wengenhäuser	8.3	fragment 569 g
Coloured breccia		Aumühle	8.4	cut fragment 1083 g
Coloured breccia of mainly malm limestone		Quarry Teich, Gundelsheim 48°54'23,2"N, 10°49'53,3"E	NÖRD 2/06.1	cut fragment 6141 g
Granophyr bomb ("Flädle")		Heerhof, Bopfingen	10.1	fragment 98 g
Granophyr bomb ("Flädle")		Heerhof, Bopfingen	10.2	fragment 193 g
Granophyr bomb ("Flädle")		Heerhof, Bopfingen	10.3	four fragm. 287 g
Granophyr bomb ("Flädle")		Heerhof, Bopfingen	4.1	cut fragm. 161 g
Impact melt		Quarry Otting - 48°52'38,0"N, 10°47'27,5"N	26.1	fragment 86,6 g
Impact melt		Aumühle	26.2	fragment 41,0 g
Monomict limestone breccia		Gosheim	22.1	two fragm. 481 g
Monomict limestone breccia		Quarry "Alte Bürg"	22.2	fragment 434 g
Monomict granite breccia		Lehberg quarry, Unterwilingen 48°54'55,2"N, 10°26'47,0"E	NÖRD 2/01.1	cut fragment 8000 g
Monomict granite breccia		Lehberg quarry, Unterwilingen 48°54'55,2"N, 10°26'47,0"E	NÖRD 2/01.2	cut fragment 4412 g
Limestone breccia in Suevite		Quarry "Alte Bürg"	22.3	fragment 170 g
Limestone ejecta "Brock Horizont" (donation of M. Schmieder)		Ziemetshausen	NÖRD 1/00.1	fragment 167
Polymict breccia		Langenmühle, Maihingen	11.1	fragment 161 g
Polymict crystalline breccia		Ederheim, Nördlingen	6.1	fragment 480 g
Polymict impact melt breccia		Polsingen	5.7	cut fragment 2022 g
Polymict impact melt breccia		Polsingen	5.7a	thin section
Polymict impact melt breccia		Polsingen	5.7b	remnant slice of thin section
Shatter cone		Quarry Siegling, Holheim	1.2	fragment 54 g
Shock-metamorphic granite		Quarry west of Wengenhäuser	14.3	fragment 174 g
Shock-metamorphic granite		Wennenberg, Alerheim	14.5	cut fragment 917 g
Shock-metamorphic garnet gneiss		Lehberg quarry, Unterwilingen 48°54'55,2"N, 10°26'47,0"E	NÖRD K1/1	
Shock-metamorphic garnet gneiss		Lehberg quarry, Unterwilingen 48°54'55,2"N, 10°26'47,0"E	NÖRD 1/01.2	cut fragment 888 g
Shock-metamorphic garnet gneiss		Lehberg quarry, Unterwilingen 48°54'55,2"N, 10°26'47,0"E	NÖRD 1/01.3	cut fragment 359 g
Shocked belemnite		Quarry Bschor, Ronheim	9.1-6	six spec. 18 g
Shocked belemnite		Quarry Aumühle	9.7	three spec. 18 g
Shocked belemnite		Quarry Aumühle	9.8	fragment 162 g
Shocked brachiopode		Quarry Bschor, Ronheim	10.1	
Shocked crinoid spine		Quarry Aumühle	24.1	eight specimens
Straitened kersantite		Heerhof, Bopfingen	3.1	fragment 275 g
Straitened kersantite		Quarry west of Wengenhäuser	3.2	fragment 164 g
Suevite		Forschungsbohrung Nördlingen, Deiningen Drilling 1973/74, 426 m depth (r: 4390880 h: 5418000)	NÖRD 3/07.7	half drill core 526 g
Suevite		Forschungsbohrung Nördlingen, Deiningen Drilling 1973/74, 426 m depth (r: 4390880 h: 5418000)	NÖRD 3/07.8	drill core 767 g
dike Suevite - diamond-bearing		Lehberg quarry, Unterwilingen 48°54'56,3"N, 10°26'47,1"E	NÖRD 3/07.3	fragment 11000 g
dike Suevite - diamond-bearing		Lehberg quarry, Unterwilingen 48°54'56,3"N, 10°26'47,1"E	NÖRD 3/07.4	fragment g
dike Suevite - diamond-bearing		Lehberg quarry, Unterwilingen 48°54'56,3"N, 10°26'47,1"E	NÖRD 3/07.5	cut fragment g
fall-out Suevit		Zipplingen - 48°55'35,9"N, 10°24'32,0"E	5.6	fragment 52 g
fall-out Suevit (gray)		Quarry Otting - 48°52'38,0"N, 10°47'27,5"N	5.3	two fragm. 1889 g
fall-out Suevit (gray)		Quarry Otting - 48°52'38,0"N, 10°47'27,5"N	NÖRD 3/07.1	fragment 48000 g
fall-out Suevit (gray)		Quarry Otting - 48°52'38,0"N, 10°47'27,5"N	NÖRD 3/07.2	cut fragment 899 g
fall-out Suevit (green-yellow)		Quarry "Alte Bürg"	5.2	fragment 76 g
fall-out Suevit (red)		Alerheim	5.1	fragment 224 g
fall-out Suevit (donation of A. Gehler, Göttingen)		Doosweiler near Polsingen	NÖRD 3/07.3	cut fragment 262 g
Wennenbergit (kersantite variety)		Wennenberg, Alerheim	25.1	cut fragment 579 g
Wennenbergit (kersantite variety)		Wennenberg, Alerheim	25.2	cut fragment 375 g
Wennenbergit (kersantite variety)		Wennenberg, Alerheim	25.3	cut fragment 298 g

ODESSA, Texas, USA

31°45'N, 102°29'W

< 0,05 Ma

0,17 km

Post impact breccia			ODES 0/PO.1	cut fragment 235 g
Impact melt glass (donation of AKM)			ODES 4/03.1	fragment 2,3
Impact melt glass (donation of AKM)			ODES 4/03.2	fragment 1,4
Iron meteorites see meteorite list <i>ODESSA</i>				

PAASSELKÄ, Finland

62°09'N, 29°23' E

10 km

Monomict granite breccia	Gravel pit north of Korteoja 62°06'27" N, 29°31'37" E	PAAS1/01.1		cut fragm. 288 g
Polymict crystalline pseudotachylite breccia	Gravel pit north of Korteoja 62°06'27" N, 29°31'37" E	PAAS3/02.1		thin section and slice cut fragm. 295 g
Polymict crystalline fragmental breccia with PDF in quartz and impact melt	Gravel pit north of Korteoja 62°06'27" N, 29°31'37" E	PAAS2/04.1		thin section and endcut cut fragm. 267 g
Monomict crystalline pseudotachylite breccia	Gravel pit north of Korteoja 62°06'27" N, 29°31'37" E	PAAS2/01.1		cut fragm. 346 g thin section and endcut
Monomict crystalline pseudotachylite breccia	Old gravel pit north of Korteoja 62°06'17" N, 29°31'14" E	PAAS2/01.2		cut fragm. 168 g thin section and endcut
Monomict gneiss breccia	Gravel pit north of Korteoja 62°06'27" N, 29°31'37" E	PAAS2/01.3		cut fragm. 300 g
Polymict crystalline fall-back breccia	Gravel pit north of Korteoja 62°06'27" N, 29°31'37" E	PAAS2/07.1		cut fragm. 293 g thin section and endcut

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
	clast rich impact melt breccia	Gravel pit north of Korteoja, N62°6'29"N, 29°31'23.7"E	PAAS4/01.1	cut fragment 1215 g
	Suevite	Gravel pit north of Korteoja, N62°6'29"N, 29°31'23.7"E	PAAS3/07.1	cut fragment 643 g
POPIGAI, Russia		71°30'N, 111°00'	35 Ma	100 km
	Tagamite	from small irregular body in suevite [N7201e/74 of Masaitis]	POPI3/05.1	fragment 105 g
	Tagamite	(donation of R. Tagle, Berlin)	POPI3/05.2	slice 3 g
	Amphibolite with melt veins		POPI3/02.1	drill core slice 34 g
	Fragmental gneiss breccia		POPI2/02.1	drill core slice 30 g
PUCHEZH-KATUNKI, Russia		56°58'N, 43°43'E	167 Ma	80 km
	Polymict breccia	outcrop at Wolga river	PUCH2/07.1	slice 135 g
RITLAND, Norway		59°14'N, 6°25'E	500-900 Ma	2,5 km
	Pegmatite basement breccia	59°13'49" N, 6°25'19" E	RITL2/01.1	cut fragment 249 g
	Impact melt breccia	59°13'41" N, 6°25'10" E	RITL3/01.1	cut fragment 410 g
	Suevite	59°14'22" N, 6°24'43" E	RITL3/07.1	cut fragment 255 g
ROCHECHOUART, France		45°50'N, 0°56'W	214 Ma	10 km
	Polymict crystalline fragment breccia (brown) - basal breccia	Rouchouart, La Graine bridge west	6.5	cut fragm. 3635 g
	Polymict crystalline fragment breccia (gray) - basal breccia	Goudou	6.10	cut fragm. 1355 g
	Polymict crystalline fragment breccia (gray) - basal breccia	Goudou	ROCH2/04.1	cut fragm. 370 g
	Polymict crystalline fragment breccia (gray) - basal breccia	Quarry in Champagnac	6.15	cut fragm. 200 g
	Polymict impact melt breccia (pink)	Babaudus	37.1	cut fragm. 4432 g
	Ganophyre	Quarry in Champagnac	7.10	cut fragm. 436 g
	Ganophyre	Quarry in Champagnac	7.10a	thin section
	Pseudotachylite	Quarry in Champagnac	7.10b	cut fragment
	Pseudotachylite	Quarry in Champagnac	7.9	cut fragm. 156 g
	Pseudotachylite	Quarry in Champagnac	7.9a	thin section
	Pseudotachylite breccia	Quarry in Champagnac	7.9b	slice
	Pseudotachylite breccia	Quarry in Champagnac	35.10	cut fragm. 1850 g
	Pseudotachylite breccia	Quarry in Champagnac	35.8	cut fragm. 61 g
	Pseudotachylite breccia	Quarry in Champagnac	35.9	cut fragm. 355 g
	Shatter-cone in granite		ROCH1/02.1	fragment 1665 g
	Shock-metamorphic gneiss	Quarry in Champagnac	31.3	cut fragm. 378 g
	Shock-metamorphic granite	Quarry in Champagnac	14.13	cut fragm. 1553 g
	Shock-metamorphic granite	Quarry in Champagnac	14.13a	thin section
	Shock-metamorphic granite	Quarry in Champagnac	14.13b	slice
	Shock-metamorphic quartz	Quarry in Champagnac	13.7	cut fragm. 196 g
	Suevite (green-brown) - glassy breccia	Chassenon	5.12	cut fragm. 1732 g
	Suevite (green-brown) - glassy breccia	Chassenon	5.12a	thin section
	Suevite (green-brown) - glassy breccia	Chassenon	5.12b	remnant slice of thin section
	Suevite (brown) - glassy breccia	Chassenon	ROCH3/07.1	cut fragm. 496 g
	Suevite (brown) - glassy breccia	Chassenon	ROCH3/07.2	cut fragm. 511 g
	Suevite (red) - welded breccia	Montoume	5.13	cut fragm. 2823 g
ROTER KAMM, Namibia		27°46'S, 16°18'E	3.7 Ma	2,5 km
	Granophyr breccia (O. Medenbach no. 16737)	northern upper crater rim	35.2	cut fragm. 589 g
	Pseudotachylit breccia (O. Medenbach no. 16727)	eastern upper crater rim	34.2	cut fragm. 535 g
	Pseudotachylit breccia (O. Medenbach no. 16730)	south-eastern upper crater rim	34.3	cut fragm. 165 g
	Pseudotachylit breccia (O. Medenbach no. 16733)	northern upper crater rim	34.4	cut fragm. 586 g
RUBIELOS DE LA CERIDA, Spain		40°47'N, 1°12'W	32 Ma	40 km
	Carbonate-phosphate melt rock (donation of K. Ernstson)	between Navarette and Barrachina	RUBI4/01.1	fragment 19 g
	Carbonate-phosphate melt rock (donation of K. Ernstson)	between Navarette and Barrachina	RUBI4/01.2	fragment 26 g
	Limestone breccia (donation of K. Ernstson)	south of central uplift	RUBI1/01.1	endcut 776 g
	Slate pseudotachylite (donation of K. Ernstson)	between Navarette and Barrachina	RUBI3/01.1	fragment 54 g
	Suevite (donation of K. Ernstson)	Torre de la Cerida	RUBI3/07.1	fragment 101 g
SÄÄKSJÄRVI, Finland		61°24'N, 22°24'E	560 Ma	6 km
	Suevite	Lomakeskus	SÄÄK3/07.1	cut fragment 428 g
	quartz with PDFs			thin section and cut fragment
	Granophyre (Impact melt rock)	Sääkskoski in direction Lomakeskus	SÄÄK4/02.1	cut fragment 570 g
	Polymict fall-out breccia		SÄÄK2/05.1	thin section and cut fragment slice 1100 g
SAARIJÄRVI, Finland		65°17'N, 28°25'W	~ 1,000 Ma	2 km
	Sand- and siltstone breccia with shocked quartz	SE of Laajanlahdenusa, 65°17'41"N, 28°24'48"E	SAAR 2/01.1	cut fragment 166 g thin section and cut fragment
	Shatter cone in granite	between Tausvaara and Varpula, 65°17'15"N, 28°23'41"E	SAAR 1/02.1	fragment 880 g
	Shatter cone in amphibolite	SW side of the lake	SAAR 1/02.2	fragment 247 g
SERPENT MOUND, Ohio, USA		39°02'N, 83°24'W	< 320 Ma	6 km
	Shatter cone in limestone		SERP1/02.1	cut fragment 285 g
SILJAN RING, Sweden		61°5'N, 15°0'E	368 Ma	55 km
	Monomict granite breccia with impact melt veins and pools	Styggsforsen, W of Boda	40.3	cut fragment 1407 g
	Monomict granite breccia with impact melt veins and pools	Styggsforsen, W of Boda	SILJ2/01.2a/2b	a-thin section, b-cut fragment
	Monomict quartzite breccia	Styggsforsen, W of Boda	43.1	cut fragment 1287 g

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STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Monomict quartzite breccia		Styggforsen, W of Boda	SILJ2/01.3a/3b	a-thin section, b-cut fragment
Shatter cone in granite		Hättjarn, center of Siljan Structure	1.10	fragment 1752 g
Shatter cone in granite		Hättjarn, center of Siljan Structure	1.11	fragment 489 g
Shatter cone in granite		Hättjarn, center of Siljan Structure	1.8	fragment 1478 g
Shatter cone in granite		Hättjarn, center of Siljan Structure	1.9	fragment 648 g
Shock-metamorphic granite with melt vein		Öja, W of N70 bridge	14.11	cut fragment 434 g
Shock-metamorphic granite with melt vein		Öja, W of N70 bridge	14.12	cut fragment 680 g
Monomict granite breccia with impact melt vein		Öja, W of N70 bridge	SILJ2/01.1a/1b	a-thin section, b-cut fragment
Shock-metamorphic granite with shatter cones		Hättjarn, center of Siljan Structure	14.10	fragment 1870 g
Shock-metamorphic limestone		Dalhalla, NW of Rättvik	41.1	fragment 371 g
Shock-metamorphic limestone		Dalhalla, NW of Rättvik	41.2	cut fragment 607 g
Shock-metamorphic quartz (donation of B. Lindquist, Stockholm)		Brunnvasselsbodarna	13.2	fragment 1239 g
Shock-metamorphic quartzite (Orsa-sandstone)		Styggforsen, W of Boda	13.6	fragment 648 g
Shock-sheared quartz		Styggforsen, W of Boda	13.5	fragment 1469 g
Shock-sheared sea-lilly in limestone		Dalhalla, NW of Rättvik	42.1	fragment 233 g
Cataclastic granite breccia (donation of L. Förster, Malente)		gravel pit Ensro, NE of Rättvik	SILJ - LFM95/Sil/3	endcut 19 g slice 12 g thin section
fragmental breccia with devitrified glassy matrix (donation of L. Förster, Malente)		gravel pit Ensro, NE of Rättvik	SILJ - LFM95/Sil/2	endcut 23 g thin section embedded piece
granite with pseudotachylite veins and pools		gravel pit 2 km WSW Daddbodarna N 61.03767, O 14.89631	SILJ3/02.1	cut fragment 368 g
granite with pseudotachylite veins and pools		gravel pit 2 km WSW Daddbodarna N 61.03767, O 14.89631	SILJ3/02.2	cut fragment 114 g
granitic pseudotachylite breccia		Trollberget UTM 6768150/1448800	SILJ3/02.3	cut fragment 529 g
granitic pseudotachylite breccia		Trollberget UTM 6768150/1448800	SILJ3/02.4	cut fragment 152 g
SLAT ISLANDS, Ontario, Canada		48°40'N, 87°0'W	<350 Ma	30 km
Tagamite (donation of A.Theriault, Ottawa [SI-75-F1D])			SLAT3/05.1	cut fragment 549 g
Tagamite			SLAT3/05.1a/b	a-thin section, b-cut fragment
Coloured breccia (donation of A.Theriault, Ottawa [SI-75-54L])			SLAT2/03.1	cut fragment 490 g
SÖDERFJÄRDEN, Finland		62°02'N, 21°35'E	600 Ma	5.5 km
Granite breccia with shocked quartz		S of Pohnebacken, 62°58'42"N, 21°37'30"E	SÖDE 3/02.1	cut fragment 536 g thin section and cut fragment
Glass bomb			SÖDE 4/05.1	cut bomb 264 g
Glass bomb			SÖDE 4/05.2	cut bomb 161 g
STEINHEIM, Germany		48°36'N, 10°33'E	14.8 Ma	3.4 km
Joint lamellae		unknown	2.1	fragment 140 g
Shocked silica nodule (donation of M. Schmieder, Stuttgart)		Steinheim	STEI1/02.2	fragment 197 g
Shatter cone		N-"Steinhirt"	1.1	fragment 1498 g
Shatter cone		NE-"Steinhirt"	STEI1/02.1	fragment 3346 g
SUDBURY, Ontario, Canada		46°36'N, 81°11'W	1850 Ma	200 km
Pseudotachylite (donation of A.Theriault, Ottawa [MS-800B-71])			SUDB3/02.1	cut fragment 1039 g
Tagamite (Black Onaping), sometimes diamond bearing (donation of A.Theriault, Ottawa [MS-1066])			SUDB3/05.1	slice 45 g slice 38 g
Metavolcanite with pyrite-pyrrhotite (donation of A.Theriault, Ottawa [MS-1090])				fragment 1484 g
Anthroxolite		Chelmsfort	SUDB 01	fragment 166 g
SUVASVESI NORTH, Finland		62°42'N, 28°10'E	270 Ma	4.0 km
Shatter cone in granite		East-shore, 62°35.7' N, 28°16.3' E	SUVA1/02.1	fragment 259 g
Suevite with PDFs in quartz		East-shore, 62°35.7' N, 28°16.2' E	SUVA3/07.1	cut fragment 23 g
			SUVA3/07.1a	thin section
			SUVA3/07.1b	cut fragments
Folded gneiss		Suvasvesi north	SUVA1/01.1	slice 233 g
SUVASVESI SOUTH, Finland		62°41'N, 28°11'E	270 Ma	
Shatter cone in granite		Lusikkaniemi, E shore of Haapaselkä, 62°35.7'N 28°16.3'E	SUVS1/02.1	fragment 186 g
Shatter cone in granite		Lusikkaniemi, E shore of Haapaselkä, 62°35.7'N 28°16.3'E	SUVS1/02.2	fragment 104 g
Monomict granite breccia with shatter cone		Lusikkaniemi, 62°35.7'N, 28°16.2'E	SUVA 2/02.1	cut fragment 31 g
Monomict granite breccia		Lusikkaniemi, 62°35.7'N, 28°16.2'E	SUVA 2/02.2	cut fragment 20 g
Pseudotachylite breccia with PDFs in quartz - Suvasvesi south?		Kaituransalo, Leppävirta 62°34'23"N 28°20'32"E	SUVS 3/01.1	cut fragment 65 g
			SUVS 3/01.1a	thin section with PDF
			SUVS 3/01.1b	endcut
Pseudotachylite breccia - Suvasvesi south?		Kaituransalo, Leppävirta 62°34'23"N 28°20'32"E	SUVS 3/02.1	cut fragment 13 g
TABUN-KHARA-OBO, Mongolia		44°17'50"N, 109°39'20"E	150 Ma	1.3 km
monomict quartz-feldspar-mica schist breccia (donation Elmar Buchner TK-5, 06/2012)			TKO 2/01.1	corner piece 98 g
polymict breccia of quartzite, greenschist and gneiss (donation Elmar Buchner TKO-4, 06/2012)			TKO 2/04.1	slice 43 g

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STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
	limestone impact (melt??) breccia (donation Elmar Buchner TKO-2a, 06/2012)		TKO 2/01.2	endcut 9 g
TENOUMER, Mauretania		22°55'N, 10°24'W	2.5 Ma	1.9 km
	Shock-metamorphic quartz		TANO1/01.1	fragment 16 g
			TANO1/01.2	fragment 17 g
	Quartz with undulatory extinction		TANO1/01.2a	thin section
			TANO1/01.2b	cut piece
	Shock-metamorphic quartz		TENO1/01.3	slice with PDFs 11,4 g
	Impact melt breccia	SW outside the crater, collected 03/2007 R. Hobein	TANO3/01.1	cut fragment 231 g
	Impact melt breccia with chondritic projectile (donation of R. Hobein)	collected 2008 R. Hobein	TANO3/01.2	cut fragment 74 g
			TANO3/01.2a	polished thin section
	Granophyre bomb	W outside the crater, coll. 03/2007 R. Hobein	TANO4/03.1	bomb 133 g
	Silica-carbonate impact melt	SW outside the crater, coll. 03/2007 R. Hobein	TANO4/03.2	specimen 8.8 g
	Serpentinized ultramafite	top of S crater rim, coll. 03/2007 R. Hobein	TANO0/00.1	cut fragment 5.5 g
TERNOVKA, Ukraine		48°1'N, 33°5'E	330 Ma	12 km
	Shatter cone (donation of E.P. Gurov, Kiev)		1.4	half drilling core 134 g
			TERN2/01.1	slice 6 g
	Diaplectic quartz with coesit		TERN2/01.1a	thin section
			TERN2/01.1b	embedded cut fragment
	Polymict crystalline fragmental breccia		TERN2/04.1	cut fragment 24 g
	Pseudotachylite breccia		TERN3/02.1	slice 14 g
	Pseudotachylite breccia with metal specks		TERN3/02.2	slice 27 g
	Polymict crystalline fragmental breccia (donation of O. Gabel)		TERN2/04.2	slice 18 g
TSWAING, South Africa		25°24'29" S, 28°04'56" E	0.2 Ma	1.1 km
	Carbonatite	25°24'17.0" S, 28°04'53.5" E	BP 198.1	cut fragment 178 g
	Fractured Nebo granite	25°24'38.1" S, 28°05'14.3" E	TSWA 1/01.3	cut fragment 682 g
	Fractured Nebo granite	25°24'44.1" S, 28°05'04.3" E	TSWA 1/01.4	cut fragment 805 g
	Granit aplite	NW crater rim	TSWA 0/01.2	cut fragment 398 g
	Granite breccia	25°24'45.0" S, 28°05'14.0" E	TSWA 1/01.5	cut fragment 407 g
	Granite breccia	25°24'38.4" S, 28°05'14.4" E	TSWA 1/01.6	cut fragment 7 g
	Karoo Sandstone	25°24'45" S, 28°05'14" E	TSWA 0/01.3	cut fragment 113 g
	Lamprophyre with limonite filled fractures	25°24'18.5" S, 28°04'59.7" E	TSWA 1/01.2	cut fragment 786 g
	Nebo granite grid	25°24'17.0" S, 28°04'53.5" E	TSWA 0/01.1	cut fragment 301 g
	Nebo granite with limonite filled fractures	25°24'17.0" S, 28°04'53.5" E	TSWA 1/01.1	cut fragment 310 g
TVÄREN BAY, Sweden		58°46' N, 17°25' E	455 Ma	2 km
	Amphibolitic gneiss breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 2/01.1	cut fragment 1520 g
			TVÄR 2/01.1a	polished thin section
	Garnet gneiss breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 2/01.2	cut fragment 2224 g
			TVÄR 2/01.2a	polished thin section
	Gneiss granite breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 2/01.3	cut fragment 53 g
			TVÄR 2/01.3a	polished thin section
	Graphite bearing gneiss breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 2/01.4	cut fragment 465 g
			TVÄR 2/01.4a	polished thin section
	Amphibolitic gneiss breccia	N-shore of Tvären Bay, Tofsö, E Nyköping 58°47'36"N, 17°24'58"E	TVÄR 2/01.5	cut fragment 251 g
			TVÄR 2/01.5a	polished thin section
	Pseudotachylite breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 3/02.1	cut fragment 291 g
			TVÄR 3/02.1a	polished thin section
			TVÄR 3/02.2	cut fragment 452 g
	Pseudotachylite breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 3/02.2a	polished thin section
			TVÄR 3/02.2b	slice 221 g
			TVÄR 3/02.3	cut fragment 321 g
	Pseudotachylite breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 3/02.3a	polished thin section
			TVÄR 3/02.4	cut fragment 752 g
	Pseudotachylitic granite breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 3/02.4a	polished thin section
			TVÄR 3/02.4a	cut fragment 1654 g
	Pseudotachylitic granite breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 3/02.5a	polished thin section
			TVÄR 3/02.5a	cut fragment 1256 g
	Pseudotachylite breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 3/02.6a	cut fragment 965 g
			TVÄR 3/02.7	fragment 2872 g
	Pseudotachylite breccia	SW-shore of Tvären Bay, Stendörren, E Nyköping 58°44'57"N, 17°23'29"E	TVÄR 3/02.7a	slice 452 g
VARGEAO DOME, Brazil		26°49' S, 52°10' W		12,4 km
	Pseudotachylitic basaltic breccia	road outcrop SE Barra Grande, Vargeao, Sta. Catarina, 26°47'44,5"S, 52°10'32,2"W	VARG 3/02.1a	slice 354 g
			VARG 3/02.1b	covered thin section
	Sandstone breccia with PDFs	Ghisolfi sand pit, Vargeao, Sta. Catarina 26°49'04"S, 52°10'53"W	VARG 2/02.1a	slice 956 g
			VARG 2/02.1b	covered thin section
	Basalt breccia with mosaicism in olivine	SW Ghisolfi sand pit, Vargeao, Sta. Catarina, 26°49'16,4"S, 52°11'5,9"W	VARG 1/02.1a	slice 324 g
			VARG 1/02.1b	covered thin section
VEPRIAJ, Lithuania		55°06'N, 24°36'E	160 Ma	8 km
	Monomict limestone breccia	crater bottom, bore hole 134, depth 300-305 m	VEPR 1/01.1	part core 187 g
VISTA ALEGRE, Brazil		25°57' S, 52°41' W	~ 134 Ma	9,5 km
	Shatter-cone assemblage in fine-grained Parana flood basalt	old quarry SE of Vista Alegre, Parana 25°56'08"S, 52°42'20"W	VIAL 1/02.1	fragment 2416 g
	Shatter-cone in fine-grained Parana flood basalt	old quarry SE of Vista Alegre, Parana 25°56'08"S, 52°42'20"W	VIAL 1/02.2	fragment 525 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Shatter-cone in fine-grained Parana flood basalt		old quarry SE of Vista Alegre, Parana 25°56'08"S, 52°42'20"W	VIAL 1/02.3	two fragments 138 g
Polymict breccia of basaltic, crystalline and sedimentary rocks		old quarry SE of Vista Alegre, Parana 25°56'08"S, 52°42'20"W	VIAL 2/03.1	fragment 7260 g
Polymict breccia of basaltic, crystalline and sedimentary rocks		road outcrop SE Vista Alegre, Parana 25°57'37,4"S, 52°40'17,1"W	VIAL 2/03.2	fragment 6469 g
Polymict breccia of basaltic, crystalline and sedimentary rocks		road outcrop SE Vista Alegre, Parana 25°57'35,6"S, 52°40'18,4"W	VIAL 2/03.4a VIAL 2/03.4b	cut fragment 27 g covered thin section
Polymict breccia of basaltic, crystalline and sedimentary rocks		old quarry SE of Vista Alegre, Parana 25°56'08"S, 52°42'20"W	VIAL 2/03.5a VIAL 2/03.5b	slice 459 g covered thin section
Fractured basalt		dirt road outcrop SE Vista Alegre, Parana 25°57'24,1"S, 52°39'7,3"W	VIAL 2/01.1	fragment
VREDEFORT, South Africa		27°00' S, 27°30' E	1970 Ma	~ 280 km
Gabbro - "Anna's Rust Gabbro" (post-doming intrusion)		E of Parys, 26°52,727' S, 27°30,234' E	VRED5/01.1	fragment 1097 g
Granite with pseudotachylite veins		Road outcrop about 5 km WSW of Parys, 26°53'22.9" S, 27°24'02.1" E	VRED1/01.1	cut fragment 68 g
Granite with pseudotachylite veins		Road outcrop about 5 km WSW of Parys, 26°53'22.9" S, 27°24'02.1" E	VRED1/01.2	cut fragment 245 g
Granophyre (recrystallised impact melt)			34.1	fragment 1515 g
Granophyre breccia - "Vredefort Granophyr"		10 km west of Parys, 26°55'29.3" S, 27°21'17.3" E	VRED3/03.1	cut fragment 4532 g
Granophyre breccia - "Vredefort Granophyr"		10 km west of Parys, 26°55'29.3" S, 27°21'17.3" E	VRED3/03.2	cut fragment 18000 g
Granophyre of spherulitic texture		Hofffontein 44, Vredefort, 27°0,959' S, 27°22,653' E	VRED3/03.3	fragment 4125 g
Pseudotachylite		E of Vredefort, 26°59'16,3" S, 27°22'17,5" E	VRED3/01.1	cut fragment 1111 g
Pseudotachylite with gneiss xenolite		Road outcrop about 5 km WSW of Parys, 26°53'22.9" S, 27°24'02.1" E	VRED3/01.2	cut fragment 16500 g
Pseudotachylitic breccia			35.1	cut fragment 367 g
Pseudotachylitic breccia		E of Vredefort, 26°59'16,3" S, 27°22'17,5" E	VRED3/02.1	cut fragment 1121 g
Pseudotachylite vein in gneiss		Road outcrop about 5 km WSW of Parys, 26°53'22.9" S, 27°24'02.1" E	VRED3/01.2	cut fragment 1033 g
Pseudotachylite with gneiss-granite and large quartz inclusion		Road outcrop about 5 km WSW of Parys, 26°53'22.9" S, 27°24'02.1" E	VRED3/01.3	slice 522 g polished thin section
Shatter cone in quartzite			1.5	fragment 2337 g
Shatter cone in Booyens Shale		North of Venterskroon, 26°52'39.2" S, 27°15'07.7" E	VRED1/02.1	specimen 2749 g
Shatter cone in sericitic quartzite of Marais Group formation		Vaal bridge Schoemansdrif, 26°58,248' S, 27°12,578' E	VRED1/02.2	specimen 401 g
Shatter cone in metabasaltic lava		Hattingsrest 68, Blaauwbosch Mine, 27°7,739' S, 27°37,562' E	VRED1/02.3	specimen 2675 g
Shatter cone in metabasaltic lava		Hattingsrest 68, Blaauwbosch Mine, 27°7,739' S, 27°37,562' E	VRED1/02.4	specimen 904 g
Shock-metamorphic granite		Road outcrop about 5 km WSW of Parys, 26°53'22.9" S, 27°24'02.1" E	VRED1/01.3	cut fragment 317 g
Shock-metamorphic sericitic quartzite of Elsburg Formation with PDFs		Kromellenboog stream at highway N1, 26°50,486' S, 27°38,558' E	VRED1/01.4	fragment 131 g
Shock-metamorphic sericitic quartzite of Elsburg Formation with coesite and stishovite bearing melt veins and PDFs		Kromellenboog stream at highway N1, 26°50,486' S, 27°38,558' E	VRED1/01.5	fragment 739 g
Shock-metamorphic sericitic quartzite of Elsburg Formation with coesite and stishovite bearing melt veins and PDFs		Kromellenboog stream at highway N1, 26°50,486' S, 27°38,558' E	VRED1/01.6	cut fragment 13 g
Shock-metamorphic sericitic quartzite of Elsburg Formation with coesite and stishovite bearing melt veins and PDFs		Kromellenboog stream at highway N1, 26°50,486' S, 27°38,558' E	VRED1/01.7	cut fragment 151 g
Shock-metamorphic sericitic quartzite of Elsburg Formation with coesite and stishovite bearing melt veins and PDFs		Kromellenboog stream at highway N1, 26°50,486' S, 27°38,558' E	VRED1/01.8	slice 119 g
Shock-metamorphic sericitic quartzite of Elsburg Formation with coesite and stishovite bearing melt veins and PDFs and shatter cone		Kromellenboog stream at highway N1, 26°50,486' S, 27°38,558' E	VRED1/01.9	cut fragment 1674 g
WABAR, Saudi Arabia				
Glass			WABA4/02.1	black twisted piece 0,77 g
Glass			WABA4/02.2	black fragment 0,18 g
Glass			WABA4/02.3	blue-gray piece 0,98 g
WANAPITEI LAKE, Ontario, Canada		46°45' N, 80°45' W	37 Ma	8 km
Polymict crystalline breccia (donation of J. Schwade, Kankakee)			21.1	cut fragm. 104 g
Suevite			WANA 3/07.1	cut fragment 165 g
Suevite			WANA 3/07.2	slice 200 g
Granophyre bomb (donation of K.-D. Meyer, Hanover)		South beach of lake Wanapitai	WANA 4/03.1	cut fragment 140 g
WEAUBLEAU-OSCEOLA, Missouri, USA		57°30' N, 93°38' W	> Pennsylv.	19 km
Colored breccia (donation of K. R. Evans)		Roadcut on SW side of intersection Highway 13 and S.E. 400, 5 km N of Collins approx. 57°30'00"N, 93°38'30"W	WEAU2/03.1	endcut 783 g
WELLS CREEK, Tennessee, USA		36°23' N, 87°40' W	~ 200 Ma	14 km
Shatter cone in limestone		36°22'33"N, 87°39'50"W	WELL1/02.1	fragment 177 g
Coloured breccia		36°22'33"N, 87°39'50"W	WELL2/03.1	cut fragment 164 g
WEST HAWK LAKE, Manitoba, Canada		49°46' N, 95°11' W	100 Ma	3.2 km

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STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
	Suevite (donation of A.Theriault, Ottawa [1625])		WEST3/07.1	half drill core 101 g
	Monomict breccia (donation of A.Theriault, Ottawa [WH-768])		WEST1/01.1	half drill core 164 g
WETUMPKA, Alabama, USA		32°32' N, 26°11' 30"W	late cretaceous	5 km
	Brecciated sandstone (grey)		WETU2/03.1	cut fragment 8,5 g
	Brecciated sandstone (redbrown)		WETU2/03.2	fragment 7,1 g
	polymict breccia of Tuscolusa formation	central outcrop	WETU2/08.1	fragment 54 g
	polymict breccia of Tuscolusa formation with gneiss	central outcrop	WETU2/08.2	fragment 42 g
WOLFE CREEK, Australia		19°18' S, 127°46' E	0.3 Ma	0,875 km
	Shocked sandstone		WOLF1/01.1	slice 32 g
	Shocked sandstone with limonite nodules		WOLF1/01.2	slice 34 g
	Shocked sandstone	gift of O. Lüdtkke, Calvörde	WOLF1/01.3	cut fragment 89,7 g
	Shocked sandstone	gift of O. Lüdtkke, Calvörde	WOLF1/01.4	cut fragment 63,5 g
	Shocked sandstone	SW crater rim, donation of	WOLF1/01.5	fragment 254 g
XIUYAN, China		40°21'55" N, 123°27'34" E	~ 0.05 Ma	1,8 km
	polymict tremolite-marble breccia	WSW inner crater rim (40°21,869'N, 123°27,169'E)	XIUY2/04.1a	endcut 1876 g
			XIUY1/04.1b	polished thin section
	deformed amphibolite	WSW inner crater rim (40°21,869'N, 123°27,169'E)	XIUY1/01.1a	endcut 290 g
			XIUY1/01.1b	polished thin section
	brecciated granite	E of the crater(40°21,864'N, 123°28,748'E)	XIUY1/01.2	endcut 561 g
	brecciated amphibolite	E of the crater(40°21,864'N, 123°28,748'E)	XIUY1/01.3	endcut 182 g
	quartzite-amphibolite breccia	E of the crater(40°21,864'N, 123°28,748'E)	XIUY1/01.4	endcut 552 g
	granulite breccia	crater entrance creek 40°21,864'N, 123°28,748'E	XIUY1/01.5	endcut 1951 g (X1)
				polished thin section
	polymict crystalline breccia	outer crater rim 40°21,345'N, 123°27,914'E	XIUY 2/04.2	cut fragment 1311 g (X7)
	granulite breccia	outer crater rim 40°21,345'N, 123°27,914'E	XIUY1/01.6	endcut 293 g (X5)
	quartzite breccia	outer crater rim 40°21,345'N, 123°27,914'E	XIUY1/01.7	endcut 114 g
	quartzite breccia	outer crater rim 40°21,345'N, 123°27,914'E	XIUY1/01.8	endcut 89 g (X4)
	polymict crystalline breccia	outer crater rim 40°21,345'N, 123°27,914'E	XIUY 2/04.3	endcut 45 g (X3)
				polished thin section
	polymict crystalline breccia	40°22,621'N, 123°28,16'E	XIUY 2/04.4	endcut 1768 g
				polished thin section
	polymict crystalline breccia	40°22,308'N, 123°27,832'E	XIUY 2/04.5	endcut 358 g
	fractured quartz	40°22,378'N, 123°27,935'E	XIUY1/01.9	endcut 1054 g
	"shatter cone"	40°22,803'N, 123°28,14'E	XIUY1/02.1	fragment 274 g
	fractured gneiss	40°22,803'N, 123°28,14'E	XIUY1/01.10	endcut 168 g
	Diorite	40°21,498'N, 123°28,264'E	XIUY0/01.1	endcut 631 g
	Hornblende breccia	40°22,088'N, 123°26,891'E	XIUY1/01.11	endcut 252 g
	polymict crystalline breccia	40°22,326'N, 123°27,818'E	XIUY 2/04.6	endcut 2255 g (X9)
YARRABUBA, Australia		27°10' S, 119°50' W	>2650 Ma	30 km
	Barlangi granophyr	Barlangi Rock (donation of Martin Schmieder 01/2013)	YARR3/03.1	slice 352 g
	clast-poor impact melt rock	donation of Martin Schmieder 01/2013	YARR3/03.2	slice 83 g
ZAPADNAYA, Ukraine		49°44' N, 29°00' E	115 Ma	4 km
	Shatter cone in gneiss (donation of E.Gurov, Kiev)		ZAPA1/02.1	fragment 119 g
ZELENY GAI, Ukraine		48°42' N, 29°0' E	> 140 Ma	3,5 km
	polymict allogenic breccia		ZELE 2/07.1	drilling core 241 g
ZHAMANSHIN, Kazachstan		49° N, 59° E	1 Ma	15 km
	Andesitic tuffite (donation of E.Izokh, Irkutsk)		BP 147.1	slice
	Polymict crystalline breccia, non homogenized (donation of E.Izokh, Irkutsk [62/4])		6.2	slice 343 g
	Polymict crystalline breccia, partly homogenized (donation of E.Izokh, Irkutsk [57/5])		6.3	slice 195 g
	Pumice (yellow and dark) (donation of E.Izokh, Irkutsk [56/3])		18.5	cut piece 78 g
	Pumice (yellow) with Muong Nong Zhamanshinite (donation of E.Izokh, Irkutsk [56/2])		18.4	cut fragm. 300 g
	Zhamanshinite (dark glass)		7.5	five fragm.
	Zhamanshinite (yellow glass)		7.6	six fragm.
	Zhamanshinite (yellow glass) (donation of O. Gabel)		ZHAM 4/03.2	cut fragment 8,2 g
	Zhamanshinite glass bomb, andesite-like basic (donation of E.Izokh, Irkutsk [62/2])		12.4	fragment 238 g
	Zhamanshinite glass bomb	[no. ЖК-4/ЖК-73-45 of Masaitis]	ZHAM 4/03.1	fragment 164 g
	Zhamanshinite, andesite-like basic (donation of E.Izokh, Irkutsk [27 d])		7.1	cut fragm. 49 g
	Zhamanshinite, andesite-like basic (donation of E.Izokh, Irkutsk [33a])		7.2	cut fragm. 59 g
	Zhamanshinite, andesite-like basic (donation of E.Izokh, Irkutsk [42d])		7.4	slice 92 g
	Zhamanshinite, andesite-like basic (donation of E.Izokh, Irkutsk [45r])		7.3	cut fragm. 108 g

IMPACT LAYERS

CHAPADMALAL, Argentina

3,3 Ma

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STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
	Impact melt glass	Miramar	CHAP3/04.1	fragment 43 g
CHASICO, Argentina		38°38' S, 63°06' W	10,1 a	15 km
	Impact melt glass		CHAS3/04.1	fragment 55g
LIBYAN DESERT GLASS, Egypt			29 Ma	
	Libyan desert glass		19.2	individual 169 g
	Libyan desert glass (artefact)		19.1	artefact 2 g
	Libyan desert glass		19.3	individual 227 g
	Libyan desert glass		19.4	individual 115 g
	Libyan desert glass		19.5	individual 131 g
	Libyan desert glass		19.6	individual 56 g
	Libyan desert glass		19.7	artefact 2,8 g
MARCHE-UMBRIAN Late eocene, Italy			35.5 Ma	Chesapeake? Popigai?
	Impactoclastic limestone	Massignano Quarry, Ancona, Marche, Italy 43°32'10.1"N, 13°35'34.4"E	LEIL 1.1	fragment 23,4 g
	Impactoclastic limestone	Massignano Quarry, Ancona, Marche, Italy 43°32'10.1"N, 13°35'34.4"E	LEIL 1.2	fragments and splinter 167 g
	Impactoclastic limestone	Barbetti Quarry, Gubbio, Umbria, Italy 43°22'46,9"N, 12°33'55,7"E	LEIL2.1	fragment 3292 g
	Impactoclastic limestone	Barbetti Quarry, Gubbio, Umbria, Italy 43°22'46,9"N, 12°33'55,7"E	LEIL2.2	fragment 1205 g
	Impactoclastic limestone	Barbetti Quarry, Gubbio, Umbria, Italy 43°22'46,9"N, 12°33'55,7"E	LEIL2.3	slice
	Impactoclastic limestone	Barbetti Quarry, Gubbio, Umbria, Italy 43°22'46,9"N, 12°33'55,7"E	LEIL2.4	fragment 404 g
SOUTH-SWEDEN ordovician L-chondrite impact, Sweden			480 Ma	
	Ir-containing, hematite-stained Hällekis horizon (donation of Birger Schmitz 10/2010)	Thorsberg Quarry, base of the Täljsten, Kinnekulle, Sweden 58°35'N, 13°26'E	SSOL 1.1	cut fragment 231 g cut fragment 143 g
	red, normal limestone with orthoceratite (donation of Briger Schmitz 10/2010)	Thorsberg Quarry, Kinnekulle, Sweden 58°35'N, 13°26'E	SSOL 1.2	cut fragment 573 g
ZAMOSC, Poland (Doubtful)				
	Polymict impact melt breccia?		ZAM03/05.1	cut piece 269 g
	Polymict impact melt breccia?		ZAM03/05.2	cut piece 146 g
	Polymict impact melt breccia? with metal inclusions		ZAM03/05.3	cut piece 36 g
	Polymict impact melt breccia? with metal inclusions		ZAM03/05.3a	thin section
	Polymict impact melt breccia?		ZAM03/05.3b	3 cut fragments
	Polymict impact melt breccia?		ZAM03/05.4	4 fragments 31 g
	Polymict impact melt breccia?		ZAM03/05.5	cut fragment 35 g
	Polymict impact melt breccia?		ZAM03/05.5a	thin section
NON-CONFIRMED CANDIDATES FOR IMPACT STRUCTURES				
BJÖRKÖ, Sweden (still not confirmed)		59°17' N, 17°35' E	1200 Ma	8 km
	Lithic breccia	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/02.1	cut fragment 471 g
	Lithic breccia	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/02.2	cut fragment 604 g
	Fractured granite	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/02.2a	polished thin section
	Fractured granite	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/01.1	cut fragment 298 g
	Fractured granite	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/01.1a	polished thin section
	Fractured granite	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/01.2	cut fragment 163 g
	Fractured granite	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/01.2a	polished thin section
	Fractured granite	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/01.3	cut fragment 224 g
	Fractured granite	Lake Mälaren shore, Björkbacken, N of Södertälje 59°16'51"N, 17°37'36"E	BJÖR2/01.3a	polished thin section
DUOBBLON, Sweden		65°35'N, 17°10'E	1800 Ma	80 km
	Conglomeratic arcose (crater fill)		DUOB0/00.1	slice 964 g
	Shock-metamorphic granite		DUOB1/01.1	slice 128 g
	Polymict infall-breccia		DUOB2/05.1	cut fragment 207 g
	Polymict infall-breccia		DUOB2/05.2	slice 122 g
	Polymict infall-breccia		DUOB2/05.3	slice 177 g
	Polymict infall-breccia		DUOB2/05.4	slice 1013 g
	Pseudotachylite breccia		DUOB3/02.1	slice 165 g
	Pseudotachylite breccia		DUOB3/02.2	slice 145 g
	Granophyre		DUOB4/03.1	slice 100 g
	Tuffitic sandstone (donation of K.-D. Meyer, Hanover)	NW Skravelberget (July 22, 2002)	DOUB3/05.1	cut fragment 945 g
	Polymict conglomerate (donation of K.-D. Meyer, Hanover)	SW of Sör-Doublon (July 22, 2002)	DOUB2/02.1	cut fragment 664 g
	Polymict conglomerate of Björknösen formation (donation of K.-D. Meyer, Hanover)	middle part of the big round boulder NE Kravelbg. (July 22, 2002)	DOUB2/02.2	cut fragment 754 g
GALLEJAUR, Sweden		65°10' N, 19°30' E	1870 Ma	~ 50 km
	melt rock?		GALL4/01.1	half drilling core 26 g
	melt rock?		GALL4/01.2	cut fragment 29 g
	Pseudotachylite (donation of K.-D. Meyer)	road outcrop NE of old Gallejaure village, 1669897E-7233338N, 07/2005	GALL3/01.1	fragment 101 g
	Resurge breccia (turbidite) (donation of K.-D. Meyer)	7 km SW of Nicknoret at Vargforsdammen, 1677657E-7222528N, 07/2005	GALL2/09.1	fragment 413 g

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STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Polymict breccia (donation of K.-D. Meyer)		S of Maurträsket abot 30m s of the road, ~1675089E-7221917N, 07/2005	GALL2/04.1	fragment 450 g
Polymict breccia (donation of K.-D. Meyer)		S of Maurträsket abot 70m s of the road, ~1675089E-7221917N, 07/2005	GALL2/04.2	fragment 614 g
Pseudotachylite breccia (donation of K.-D. Meyer)		outcrop at Skellefteälven W of Gallejaur Kraftstation, ~1670588E-7229155N, 07/2005	GALL3/02.1	fragment 760 g
Carbonate-cemented autochthonous breccia (Mensträsk Breccia) (donation of K.-D. Meyer)		S of Mensträsk, ~1667336E-7220753N, 07/2005	GALL2/02.1	fragment 310 g
Impact melt with perlitic texture (Vargfors andesite) (donation of K.-D. Meyer)		outcrop at Skellefteälven W of Gallejaur Kraftstation, ~1670635E-7229154N, 07/2005	GALL4/02.1	fragment 116 g
HONGKONG, China		24°70'N, 210°0'E	47,3 Ma	11 km
Colored breccia		Mt. Austin Rd., The Peak, Hongkong Is.	8.6	2 cut fragm. 234 g /228 g
Colored breccia of granites in recrystallized clay minerals		Mt. Austin Rd., The Peak, Hongkong Is.	8.7	cut fragm. 156 g
Colored breccia of granites in recrystallized clay minerals		Mt. Austin Rd., The Peak, Hongkong Is.	8.8	thin section and cut fragm. 7 g
Sedimentary breccia of very finegrained metamorphic sandstone		Mt. Austin Rd., The Peak, Hongkong Is.	36.1	cut fragm. 389 g
Sedimentary breccia of very finegrained metamorphic sandstone		Mt. Austin Rd., The Peak, Hongkong Is.	36.2	cut fragm. 52 g
Sedimentary breccia of very finegrained metamorphic sandstone		Mt. Austin Rd., The Peak, Hongkong Is.	36.3	thin section and cut fragm. 2 g
Igimbrite		Chuang Chau Island	HONG3/02.1	polished thin section and cut fragment 2010 g
Rhyolite		Chuang Chau Island	HONG3/02.2	cut fragment 75 g
JEPHARA KNOB, Kentucky, USA		38°09'53"W, 85°07'25"W	425 Ma	
Cataclastite		Road cut I-64, Shelbyville, 38°09'52,6"W, 85°07'25,12"W	JEPH 2/01.1	fragment 476 g
LED FAT, Sweden		65°27'N, 18°16'E	Early Proteroz.	7 km
porphyric granite			LEDF 0/01.1	cut fragment 263 g
Upper Vargfors-Conglomerate (donation of K.-D. Meyer, Hanover)		road outcrop near Skidnäs, about 14 km SE Slagnäs (July 21, 2002)	LEDF 2/02.1	cut fragment 1017 g
Lower Vargfors-Conglomerate (donation of K.-D. Meyer, Hanover)		NW Halvågasbgt., about 17 km SSE Slagnäs (July 21, 2002)	LEDF 2/02.3	cut fragment 296 g
Fragmental breccia (donation of K.-D. Meyer, Hanover)		Granliden, W slope, about 14 km SSE Slagnäs (July 21, 2002)	LEDF 2/02.2	cut fragment 202 g
LOCH LEVEN, Scotland, Great Britain		56°12'N, 3°23'W	290 Ma	18x8 km
Shocked sandstone with PDSs (donation of B.J. Hamill)		Weather Hill	LEVE 1/01.1	slice 20 g
Pseudotachylite (donation of B.J. Hamill)		Scaur Hill	LEVE 3/02.1	slice 31 g
Tagamite (donation of B.J. Hamill)		Powmill	LEVE 3/05.1	slice 13 g
quartzitic hornfels with andesitic fragments (donation of O. Gabel, no. 4-5)		E of Loch Glow, 56°8'49,1" N, 3°27'46,4" W	LEVE 2/02.1	cut fragment 27,0 g thin section
Quartz-Dacite (donation of O. Gabel, no. 2-9)		NW Cleish Hills, 56°9'35,5" N, 3°30'25,0" W	LEVE 0/00.1	cut fragment 54,7 g thin section
granophyric breccia of quartzitic hornfelse with andesitic fragments (donation of O. Gabel, no. 4-8)		E of Loch Glow, 56°8'49,1" N, 3°27'46,4" W	LEVE 2/02.2	cut fragment 74,1 g thin section
granophyric breccia with andesitic and felsic fragments (donation of O. Gabel, no. 2-4)		NW Cleish Hills, 56°9'35,5" N, 3°30'25,0" W	LEVE3/03.1	slice 65,3 g thin section
Dolerite, weathered (donation of O. Gabel, 3-6)		S of Powmill, 56°9'24,9" N, 3°35'47,1" W	LEVE 0/00.2	cut fragment 42,4 g thin section
Dolerite, fresh (donation of O. Gabel, 3-1)		S of Powmill, 56°9'24,9" N, 3°35'47,1" W	LEVE 0/00.5	cut fragment 138 g
lithic breccia dominated by vesicular quartzite (donation of O. Gabel, no. 2-1)		NW Cleish Hills, 56°9'35,5" N, 3°30'25,0" W	LEVE 0/00.3	cut fragment 69,4 g thin section
lithic breccia with andesitic and felsitic fragments (donation of O. Gabel, no. 2-5)		NW Cleish Hills, 56°9'35,5" N, 3°30'25,0" W	LEVE 2/02.3	cut fragment 77,2 g thin section
vesicular quartzite (donation of O. Gabel, no. 4-6)		E of Loch Glow, 56°8'49,1" N, 3°27'46,4" W	LEVE 0/00.4	cut fragment 36,8 g thin section
lithic breccia with andesitic and felsitic fragments (donation of O. Gabel, no. 2-8)		NW Cleish Hills, 56°9'35,5" N, 3°30'25,0" W	LEVE 2/02.4	cut fragment 115,6 g thin section
lithic breccia with andesitic and felsitic fragments (donation of O. Gabel, no. 2-3)		NW Cleish Hills, 56°9'35,5" N, 3°30'25,0" W	LEVE 2/02.6	cut fragment 118,4 g
granophyric breccia with quartzite and andesitic fragments (donation of O. Gabel, no. 2-2)		NW Cleish Hills, 56°9'35,5" N, 3°30'25,0" W	LEVE 3/03.3	cut fragment 87,9 g
lithic breccia with andesitic fragments in quartzite hornfelsic matrix (donation of O. Gabel, no. 2-7)		NW Cleish Hills, 56°9'35,5" N, 3°30'25,0" W	LEVE 2/02.5	cut fragment 105 g thin section
granophyric breccia with quartzite and andesitic fragments (donation of O. Gabel, 3-8)		S of Powmill, 56°9'24,9" N, 3°35'47,1" W	LEVE3/03.2	cut fragment 18,9g thin section
LOFTAHAMMAR, Sweden				
Schocked gneiss			LOFT1/01.1	cut piece 299 g
Schocked gneiss			LOFT1/01.1a/b	a-thin section, b-slice
Schocked gneiss with fractures			LOFT1/01.2	slice 533 g
TAI HU, China		31°15' N, 120°5' E	365 Ma	70 km
Wutong quartzite breccia		Jueshan island, 31°01'46,6" N, 120°15'33,8" E	TAIH2/01.1	cut piece 2450 g
			TAIH3/02.1	cut piece 1364 g
Chert breccia		Jueshan island, 31°01'46,6" N, 120°15'33,8" E	TAIH3/02.1a	thin section
			TAIH3/02.1b	slice
			TAIH2/02.2	cut piece 441 g
Chert breccia		Jueshan island, 31°01'46,6" N, 120°15'33,8" E	TAIH2/02.2a	thin section
			TAIH2/02.2b	slice
Chert breccia		Jueshan island, 31°01'46,6" N, 120°15'33,8" E	TAIH4/02.1	cut piece 2052 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Chert breccia		Jueshan island, 31°01'46,6" N, 120°15'33,8" E	TAIH4/02.2 TAIH4/02.2a TAIH4/02.2b	cut piece 1232 g thin section slice
Lamprophyre		Ku Xu Tao island, 31°03'13,4" N, 120°18'0,5" E	TAIH0/01.1 TAIH0/01.1a TAIH0/01.1b	cut piece 569 g thin section slice
Lamprophyre		Ku Xu Tao island, 31°03'13,4" N, 120°18'0,5" E	TAIH0/01.2 TAIH0/01.2a TAIH0/01.2b	cut piece 344 g thin section slice
UNEGED UUL, Mongolia		44°15'35" N, 109°20'54"E		10 km
	sandstone with deformation bands - quartz, feldspar, and chert cemented by carbonate (donation Elmar Buchner UU-7a, 06/2012)	44°16.048'N, 109°20.258'E. Northern central annular ridge	ULUK 2/04.1	cut fragment 24 g
	Intensely fractured polycrystalline vein quartz (donation Elmar Buchner UU-15, 06/2012)	44°15.452'N, 109°20.932'E. Central peak	ULUK 2/04.2	cut fragment 20 g
YALLALIE, Australia		30°28'S, 115°47'W		15 km
	allochthonous breccia	Mungedar (donation of Martin Schmieder 01/2013)	YALL2/03.1	slice 152 g

IMPACT and IMPACT-SUSPECTED ROCKS from GLACIAL DEPOSITS in NORTHERN GERMANY

Impact melt breccia perhaps from Dellen	SK gravel pit near Westerbeck, Gifhorn, Germany about 1100 km SSW of the structure 52°31'05" N, 10°38'53" E	BP-G 0066	cut piece 247 g 2 polished thin sections 2 endcuts 35 g
Smaland granite with bent plagioclase twin lamellae (impakt?) perhaps from Hummeln	ISV gravel pit near Osloss, Gifhorn, Germany 52°28'42" N, 10°39'18" E	BP-G 0167	cut piece polished thin section
Granite breccia with pseudotachylite vein perhaps from Hummeln structure (donation of Lutz Förster, Bad Malente)	Gravel pit Kreuzfeld, Malente, Schleswig-Holstein in glacial deposit (10/2004)	LFM / Kf 04/20	cut fragment 53 g thin section endcut
Polymict breccia probable from Hummeln	Gamsen ground morein (5 m below surface), Gifhorn, 52°29'43" N, 10°32'24" E	GF-002/40	cut piece 488 g cut piece 106 g fragment 253 g
Granophyre breccia with lechatelierite and PDF in quartz probable from Lake Mien structure (donation of Lutz Förster, Bad Malente)	Braak, Eutin, Schleswig-Holstein in glacial deposit	Braak 100	cut fragment 12 g thin section
Granite breccia with pseudotachylite vein and PDF in quartz perhaps from Siljan structure (donation of Lutz Förster, Bad Malente)	Gravel pit Kreuzfeld, Malente, Schleswig-Holstein in glacial deposit	LFM 03/Kf/1	cut fragment 95 g cut fragment 74 g thin section endcut
Gneissgranite with few PDFs in quartz perhaps from Loftahammar structure (donation of Lutz Förster, Bad Malente)	Gravel pit Kreuzfeld, Malente, Schleswig-Holstein in glacial deposit (2002)	LFM / Kf 02/39	cut fragment 8 g thin section
Impact melt rock probable from Mien	field stone pile in Wilsche, Gifhorn, 52°30'25,3" N, 10°29'15,8" E	BP-G 0312	cut piece 680 g cut piece 446 g fragment 10 g
Mienite	Gravel pit Niebuhr, Wilsche 52°31'40" N, 10°28'27" E	BP-G 0337	cut piece 110 g cut piece 28 g
Pseudotachylite breccia probable from Mien	gravel pit Sieversdorf, Malente	LFM 2015x	fragment 467
Pseudotachylitic granite breccia perhaps from Siljan structure (donation of Lutz Förster, Bad Malente)	Gravel pit Kreuzfeld, Malente, Schleswig-Holstein in glacial deposit (10/2004)	LFM Kf 04/29	cut fragment 33 g slice 8 g thin section endcut
Pseudotachylitic granite breccia with olivine inclusions perhaps from Siljan structure (donation of Lutz Förster, Bad Malente)	Gravel pit Kreuzfeld, Malente, Schleswig-Holstein in glacial deposit (2003)	LFM Kf 03/15	cut fragment 24 g thin section endcut
Pseudotachylitic granite breccia perhaps from Siljan structure (donation of Lutz Förster, Bad Malente)	Gravel pit Kreuzfeld, Malente, Schleswig-Holstein in glacial deposit (2004)	LFM Kf 04/10	cut fragment 64 g thin section endcut
Pseudotachylitic granite breccia perhaps from Siljan structure (donation of Lutz Förster, Bad Malente)	Gravel pit Kreuzfeld, Malente, Schleswig-Holstein in glacial deposit (1991)	LFM Kf 91/34	cut fragment 104 g thin section endcut
Granite breccia with sandston xenolites perhaps from Siljan	building site Hohefeldstr. 7, Gifhorn, 52°29'26,6 N, 10°32'25,0 E	BP-G 0325	
Granite with melt vein perhaps from Tvären	Gamsen ground morein (5 m below surface), Gifhorn, 52°29'43" N, 10°32'24" E	GF-002/41	cut piece 198 g
Gneiss-Breccia perhaps from Tvären	building site Hohefeldstr. 7, Gifhorn, 52°29'26,6 N, 10°32'25,0 E	BP-G 0326	
Monomict granite breccia (impact?)	ISV gravel pit near Osloss, Gifhorn, Germany 52°28'42" N, 10°39'18" E	BP-G 0139	cut piece polished thin section
Monomict granite breccia (impact?, PDFs)	ISV gravel pit near Osloss, Gifhorn, Germany 52°28'42" N, 10°39'18" E	BP-G 0168	cut piece polished thin section
Monomict granite breccia with melt veins and PDFs in quartz	Wasbüttel, Gifhorn, Germany 52°24'36" N, 10°36'28" E	BP-G 0232	cut piece 35,5 g thin section

DISCREDITED IMPACT STRUCTURES

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
BRUKKAROS, Namibia				
	Rhyolitic breccia	Brukkaros crater	BRUK 0/00.1	slice 187 g
KÖFELS, Austria (Doubtful)				
		47°N, 11°E		
	Köfelsite, pumice (donation of H. Ehmke, Berlin)		18.1	cut fragm. 72 g
	Köfelsite, pumice (donation of H. Ehmke, Berlin)		18.2	fragment 389
	Köfelsite, glass (donation of H. Ehmke, Berlin)		18.3	fragment 63 g
	Köfelsite, weak melt (donation of Chr. Anger, Dt.-Altendorf)		KÖFE 3/01.1	cut fragment 24,0 g
	Köfelsite, glas (donation of Chr. Anger, Dt.-Altendorf)		KÖFE 3/01.2	fragment 62,8 g
	Köfelsite, light glas and pumice (donation of Chr. Anger, Dt.-Altendorf)		KÖFE 3/01.3	slice 61,0 g
	Köfelsite, light/dark pumice (donation of Chr. Anger, Dt.-Altendorf)		KÖFE 3/01.4	slice 54,4 g
	Köfelsite, light/dark pumice (donation of Chr. Anger, Dt.-Altendorf)		KÖFE 3/01.5	fragment with bread-crust structure 25,1 g
	Köfelsite, light glas and pumice (donation of Chr. Anger, Dt.-Altendorf)		KÖFE 3/01.6	fragment 67,2 g
SCHLITZER KAUTEN, Germany				
		50°37'N, 9°35'E		70 m
	Rhön-Plattensandstein (donation of R. Auth, Flieden [No. 10])	Teufelskaute, 70 m SSW of center	SCHL 0/01.10	fragments 151 g/ 133 g
	Rhön-Grobsandstein (donation of R. Auth, Flieden [No. 8])	Teufelskaute, 10 m N of center	SCHL 0/01.8a	fragment 63 g
	Rhön-Grobsandstein (donation of R. Auth, Flieden [No. 8])	Teufelskaute, 10 m N of center	SCHL 0/01.8b	cut fragment 3,9 g
	Rhön-Grobsandstein (donation of R. Auth, Flieden [No. 8])	Teufelskaute, 10 m N of center	SCHL 0/01.8c	thin section
SEVETIN, Cechia (Doubtful)				
	Heterogenic monzodiorite with quartz clast	Shalka quarry, Stephanovice	20.1	two fragm. 977 g
	Shock-metamorphic granite	Quarry Sevetin	14.2	two fragm. 840 g

TEKTITES

BT

CENTRAL EUROPEAN STREWNFIELD

Moldavites

		14.8 Ma.	
Moldavite	Jankov (1982), Bohemia, Czechia	1.01	elongated individual 10,4 g
Moldavite	Jankov (1982), Bohemia, Czechia	1.02	elongated individual 14,0 g
Moldavite (donation of M.Bukovanska, Prague)	Chlum (1978), Bohemia, Czechia	1.03	5 pieces (donated by Dr. Bukovanska)
Moldavite	Trebanice (1981), Bohemia, Czechia	1.04	bumerang shaped individual 1,0 g
Moldavite	Locenice, Bohemia, Czechia	1.05	shard shaped individual 5,0 g
Moldavite	Locenice, Bohemia, Czechia	1.06	shard shaped individual 5,0 g
Moldavite	Locenice, Bohemia, Czechia	1.07	shard shaped individual 5,6 g
Moldavite	Lipi (1981), Bohemia, Czechia	1.08	shard shaped individual 11,2 g
Moldavite	Slavice (1981), Moravia, Czechia	1.09	shard shaped individual 9,4 g
Moldavite	Lhanice (1981), Moravia, Czechia	1.10	shard shaped individual 4,6 g
Moldavite	Jankov, Bohemia, Czechia	1.11	ball formed with deep 7,9 g
Moldavite	Slavce, Bohemia, Czechia	1.12	ball formed with deep 3,5 g
Moldavite	Vltavin, Bohemia, Czechia	1.13	3,5 g
Moldavite	Vltavin, Bohemia, Czechia	1.14	1,3 g
Moldavite	Vltavin, Bohemia, Czechia	1.15	1,5 g
Moldavite	Vltavin, Bohemia, Czechia	1.16	1,9 g
Moldavite	Horosek, Bohemia, Czechia	1.17	individual with sediment 3,3 g
Moldavite	Koroseky, Bohemia, Czechia	1.18	individual with deep 3,2 g
Moldavite	Vltavin, Bohemia, Czechia	1.19	individual 12,1 g
Moldavite	Vltavin, Bohemia, Czechia	1.20	individual 9,6 g
Moldavite	Vltavin, Bohemia, Czechia	1.21	individual 10,4 g
Moldavite	Vltavin, Bohemia, Czechia	1.22	individual 10,5 g
Moldavite	Vltavin, Bohemia, Czechia	1.23	individual 9,8 g
Moldavite	Vltavin, Bohemia, Czechia	1.24	individual 12,0 g
Moldavite	Vltavin, Bohemia, Czechia	1.25	individual 8,4 g
Moldavite	Chlum nad Malci, Bohemia, Czechia	1.27	4,0 g
Moldavite	Milikovile, Bohemia, Czechia	1.28	elongated ind. with leave shaped incl. 13,0 g
Moldavite	Netolice, Bohemia, Czechia	1.29	23,2 g
Moldavite	Bohemia, Czechia	1.30	gas-rich gem 3,3 g
Moldavite	Netolice, Bohemia, Czechia	1.31	7,5 g
Moldavite	Netolice, Bohemia, Czechia	1.32	5,6 g
Moldavite	Locenice, Bohemia, Czechia	1.33	5,1 g
Moldavite	Locenice, Bohemia, Czechia	1.34	0,6 g
Moldavite	Jankov, Bohemia, Czechia	1.35	knob 4,4 g
Moldavite	Jankov, Bohemia, Czechia	1.36	knob 4,6 g
Moldavite	Slavetice, Moravia, Czechia	1.37	shale-like individual 7,6 g
Moldavite	Kozichovice, Moravia, Czechia	1.38	rounded individual 3,6 g
Moldavite	Bohemia, Czechia	1.39	drop shaped gem 1,5 g
Moldavite	Malesice, Bohemia, Czechia	1.40	rounded individual 2,4 g
Moldavite	Vrabce, Bohemia, Czechia	1.41	drop shaped individual 7,3 g
Moldavite	Driten, Bohemia, Czechia	1.42	3,9 g
Moldavite	Cesky Krumlov, Bohemia, Czechia	1.43	individual 1,6 g
Moldavite	Czechia	1.44	gem 2,7 g
Moldavite	Czechia	1.45	gem 1,2 g
Moldavite	Moravia	1.46	globular individual 4,5 g
Moldavite	Bohemia	1.47	light green hook-shaped individual 0,34 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Moldavite		Bohemia	1.48	light green individual 0,34 g
Moldavite		Bohemia	1.49	gas-rich brown-green gem 0,7 g
Moldavite, bicolor		Slavce near Tremove-Sviny	1.50	deep sculptured individual 14,5 g
Moldavite, with blueish tint			1.51	highly eroded piece 9,9 g
Moldavite, with blueish tint			1.52	highly eroded piece 2,6 g
Moldavite		Lhocenice	1.53	7,0 g
Moldavite			1.54	filigrane sculptured individual 1,2 g
Moldavite		Besednice	1.55	filigrane sculptured individual 2,0 g
Moldavite		Lhocenice	1.56	hook shaped individual 3,1 g
Moldavite		Slavce near Tremove-Sviny, Moravia	1.57	individual 2,9 g
Moldavite		Slavce near Tremove-Sviny, Moravia	1.58	individual 1,8 g
Moldavite		Slavce near Tremove-Sviny, Moravia	1.59	individual 1,8 g
Moldavite		Slavce near Tremove-Sviny, Moravia	1.60	individual 3,9 g
Moldavite		Slavce near Tremove-Sviny, Moravia	1.61	sand-glass shaped individual 1,9 g
Moldavite			1.62	flat individual with inclusion 3,7 g
Moldavite		Lhocenice	1.63	5,8 g
Moldavite		Lhocenice	1.64	6,1 g
Moldavite		Lhocenice	1.65	5,4 g
Moldavite			1.66	4,7 g
Moldavite			1.67	2,4 g
Moldavite			1.68	2,7 g
Moldavite			1.69	deep sculptured individual 1,8 g
Moldavite			1.70	channel shaped deep sculptured individual 0,68 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.71	green brown weak chipped individual 1,71 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.72	green weak chipped individual 1,42 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.73	green brown chipped individual 1,14 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.74	light green chipped individual 0,63 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.75	dark green brown fragment 3,58 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.76	dark olive green broken flat individual 4,26 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.77	dark olive green individual 2,42 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.78	dark olive green broken flat individual 3,92 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.79	green broken individual 4,10 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.80	light olive green broken individual 4,71 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.81	light olive green broken individual 4,61 g
Moldavite		Ottendorf-Okrilla, Waschkeskegel 8/16, Dresden	1.82	light green chipped individual 1,67 g
IVORY COAST STREWNFIELD				
Ivorites				
			0,95 Ma.	
Ivorite			10.1	chisle chaped individual with big copule 11,0 g
Ivory Coast Microtektite		Core K9-56	10.2	0,4 mm
AUSTRAL-ASIAN STREWNFIELD				
Indochinites				
			0.7 Ma	
			0.7 Ma	
Indochinite		Udon Thani, Thailand	2.01	Muong Nong type individual 1802,2 g
			2.02	
Indochinite		Thailand	2.03	club shaped individual 10 g
Indochinite		Udon Thani, Thailand	2.04	Muong Nong type individual 48,6 g
Indochinite		Guangdong, China	2.05	flat oval individual with coral 79,5 g - GCA2017 ,
				Goderis et al.
Indochinite		Thailand	2.06	disk shaped individual 41 g - GCA2017 , Goderis et al.
Indochinite		Thailand	2.07	chissel shaped individual 32,3 g
Indochinite		Phang Daeng, Thailand	2.08	hantle-like individual 22 g - GCA2017 , Goderis et al.
Indochinite		Maoming, Guangdong, China	2.09	individual 13,9 g
Indochinite		Udon Thani, Thailand	2.10	Muong Nong type individual 150 g
Indochinite		Loei, Thailand	2.11	flat individual 48,4 g
Indochinite		Chiang Mai, Thailand	2.12	rounded individual 71,2 g
Indochinite, projectile-bearing		Saigon, Vietnam	2.13	shale-like individual 3,8 g - GCA2017 , Goderis et al.
Indochinite, projectile-bearing		Saigon, Vietnam	2.14	shale-like individual 5,7 g - GCA2017 , Goderis et al.
Indochinite, projectile-bearing		Saigon, Vietnam	2.15	drop-like individual 1 g - GCA2017 , Goderis et al.
Indochinite		Hainan, China	2.16	flat individual 72 g
Indochinite		Hainan, China	2.17	club shaped individual 22 g
Indochinite		Hainan, China	2.18	cut hantle-like individual 21,9 g - GCA2017 , Goderis et al.
Indochinite		Hainan, China	2.19	elongated individual 21 g
Indochinite		China, Hainan, Manshao	2.20	Muong Nong type fragment 549 g
Indochinite		Leizhou Peninsula, Guangdong, China	2.21	shale-like individual 5,3 g
Indochinite		Thailand	2.22	deep funneled individual 27,5 g
Indochinite		Thailand	2.23	55 individuals
Indochinite		Thailand	2.24	59 individuals
Indochinite		Thailand	2.25	55 individuals
Indochinite		Henang, China	2.26	individual with corroded and uncorroded surface 49,2 g
Indochinite		Henang, China	2.27	elongated flat individual 35,2 g
Indochinite		Henang, China	2.28	drop-shaped individual 50,4 g - GCA2017 , Goderis et al.
Indochinite		Vietnam	2.29	disc shaped individual 75,5 g - GCA2017 , Goderis et al.

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Indochinite		Vietnam	2.30	disc shaped individual 45,9 g - GCA2017, Goderis et al.
Indochinite		Guangdong China	2.31	18,8 g
Indochinite		Guangdong China	2.32	15,7 g
Indochinite		Thailand	2.32	34 individuals 380 g
Indochinite		Guangdong China	2.33	1,4 g
Indochinite		Thailand	2.33	55 individuals
Indochinite		Thailand	2.34	59 individuals
Indochinite, projectile-bearing		Saigon, Vietnam	2.34	drop-like individual 30 g - GCA2017, Goderis et al.
Indochinite		Thailand	2.35	55 individuals
Indochinite, projectile-bearing		Saigon, Vietnam	2.35	elongated individual 23 g - GCA2017, Goderis et al.
Indochinite, projectile-bearing		Saigon, Vietnam	2.36	elongated individual 32,7 g - GCA2017, Goderis et al.
Indochinite, projectile-bearing		Saigon, Vietnam	2.37	cut foot-shaped cut individual 23,4 g - GCA2017, Goderis et al.
Indochinite		Thanglha Berge, Chang Tang, Tibet, China	2.38	globular individual 6,3 g
Indochinite		Udon Thani, Thailand	2.39	Muong Nong type individual 1561,9 g
Indochinite		Vietnam, Dong Lam	2.40	shale-like individual 13,1 g
Indochinite		Vietnam, Dong Lam	2.41	shale-like individual 7,6 g - GCA2017, Goderis et al.
Indochinite		Vietnam, Dong Lam	2.42	shale-like individual 4,7 g
Indochinite		Cambodia, close to Thai boarder	2.43	drop shaped individual 29,4 g - GCA2017, Goderis et al.
Indochinite		Cambodia, close to Thai boarder	2.44	drop shaped individual 37,7 g
Indochinite		Cambodia, close to Thai boarder	2.45	club shaped individual 37,6 g
Indochinite		Cambodia, close to Thai boarder	2.46	club shaped individual 30,0 g - GCA2017, Goderis et al.
Indochinite		Cambodia, close to Thai boarder	2.47	drop shaped individual 17,2 g - GCA2017, Goderis et al.
Indochinite		Cambodia, close to Thai boarder	2.48	drop shaped individual 21,5 g - GCA2017, Goderis et al.
Indochinite		Cambodia, close to Thai boarder	2.49	drop shaped individual 14,1 g - GCA2017, Goderis et al.
Indochinite		Cambodia, close to Thai boarder	2.50	drop shaped individual 27,3 g - GCA2017, Goderis et al.
Indochinite		Cambodia, close to Thai boarder	2.51	hantle shaped individual 22,8 g - GCA2017, Goderis et al.
Indochinite		Cambodia, close to Thai boarder	2.52	Muong Nong 184 g - GCA2017, Goderis et al.
Indochinite		China, Guangxi	2.53	disc 227,1 g
Indochinite		China, Guangxi	2.54	disc 136,6 g - GCA2017, Goderis et al.
Indochinite, projectile-bearing		Cambodia, Pailin	2.55	globe with big bubble 71,8 - GCA2017, Goderis et al.
Indochinite, projectile-bearing		Cambodia, Pailin	2.56	elongated individual 17,6 g (broken 2,1+15,5g) - GCA2017, Goderis et al.
Indochinite, projectile-bearing		Vietnam, Na Trang	2.57	disc 86,4 g - GCA2017, Goderis et al.
Indochinite, projectile-bearing		Vietnam, Na Trang	2.58	club shaped individual 44,8 g - GCA2017, Goderis et al.
Indochinite		Thailand	2.59	deep funneled individual 14,0 g
Indochinite		Thailand	2.60	deep groved individual 9,7 g
Indochinite		Thailand	2.61	14,4 g
Indochinite		Thailand	2.62	club shaped individual 8,5 g
Indochinite		Thailand	2.63	4,9 g
Indochinite		Thailand	2.64	4,3 g
Indochinite		Thailand	2.65	7,9 g
Indochinite		Thailand	2.66	4,7 g
Indochinite		Thailand	2.67	9,2 g
Indochinite		Thailand	2.68	globular individual 6,0 g
Indochinite		Thailand	2.69	individual with base rock inclusions 8,7 g
Indochinite		Thailand	2.70	cone shaped individual 7,3 g
Indochinite		Thailand	2.71	individual with base rock inclusions 6,6 g
Indochinite		Thailand	2.72	7,8 g
Indochinite		Thailand	2.73	disc shaped individual 31,5 g
Indochinite		Thailand	2.74	11,5 g
Indochinite		Thailand	2.75	21,7 g
Indochinite		Thailand	2.76	24,0 g
Indochinite		Thailand	2.77	globular individual 19,0 g
Indochinite		Thailand	2.78	22,2 g
Indochinite		Thailand	2.79	disc shaped individual 51,9 g
Indochinite		Thailand	2.80	disc shaped individual 34,7 g
Indochinite		Thailand	2.81	disc shaped individual 23,5 g
Indochinite		Thailand	2.82	27,8 g
Indochinite		Thailand	2.83	31,7 g
Indochinite		Thailand	2.84	32,4 g
Indochinite		Thailand	2.85	25,0 g
Indochinite		Vietnam, Dong Lam	2.86	shale-like individual 10,9 g - GCA2017, Goderis et al.
Indochinite		Phang Daeng, Thailand	2.87	Individual with Anda pits 8,4 g
Indochinite		Central Lao	2.88	Muong Nong individual 134,6 g
Malaysiaite			0.7 Ma	
Malaysiaite		Gambang Valley, Kuantan, Malaysia	8.01	individual 57,1 g
Malaysiaite		Gambang Valley, Kuantan, Malaysia	8.02	individual 56,6 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
	Malaysiaite	Gambang Valley, Kuantan, Malaysia	8.03	individual 51,0 g
	Malaysiaite	Gambang Valley, Kuantan, Malaysia	8.04	individual 42,4 g
	Malaysiaite	Gambang Valley, Kuantan, Malaysia	8.06	individual 21,1 g - GCA2017, Goderis et al.
Rizalites			0.7 Ma	
	Rizalite	Matanglang, Banaue, N-Luzon, Philippines	4.01	individual 38,9 g
	Rizalite	Matanglang, Banaue, N-Luzon, Philippines	4.02	individual 15,2 g
	Rizalite	Matanglang, Banaue, N-Luzon, Philippines	4.03	individual 34,7 g - GCA2017, Goderis et al.
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.04	individual 12,1 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.05	individual 526 g
	Rizalite	Rio Tuba, S-Palawan, Philippines	4.06	individual 84,2 g
	Rizalite	Rio Tuba, S-Palawan, Philippines	4.07	round individual 461 g
	Rizalite	Rio Tuba, S-Palawan, Philippines	4.08	deep channeled individual 172,2 g
	Rizalite	Rio Tuba, S-Palawan, Philippines	4.09	deep channeled individual 29,0 g - GCA2017, Goderis et al.
	Rizalite	Rio Tuba, S-Palawan, Philippines	4.10	cut lens 7,6 g - GCA2017, Goderis et al.
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.11	egg shaped individual 6,7 g - GCA2017, Goderis et al.
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.12	deep funneled round individual 21,1 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.13	deep funneled round individual 20,9 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.14	deep funneled individual with bed rock 33,2 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.15	disc shaped individual 28,7 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.16	Individual with angeled flange 33,2 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.17	individual with ring funnels 39,5 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.18	deep funneled globular individual 37,3 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.19	disc shaped individual 47,3 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.20	triangeled individual 28,9 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.21	globular individual with ring funnels 34,6 g
	Rizalite	Pinagbirayan, Bicol area, Luzon, Philippines	4.22	disc shaped individual 26,4 g
	Rizalite	Philippines	4.23	deep funneled individual 35,4 g
Javaites			0.7 Ma	
	Javaite	Java, Indonesia	7.01	individual 59,6 g - GCA2017, Goderis et al.
	Javaite	Aceh, Sumatra, Indonesia	7.02	individual 13 g - GCA2017, Goderis et al.
	Javaite	Aceh, Sumatra, Indonesia	7.03	drop-like individual 15 g - GCA2017, Goderis et al.
	Javaite	Aceh, Sumatra, Indonesia	7.04	drop-like individual 11,8 g - GCA2017, Goderis et al.
	Javaite	Aceh, Sumatra, Indonesia	7.05	elongated individual 14,6 g - GCA2017, Goderis et al.
	Javaite	Aceh, Sumatra, Indonesia	7.06	individual with big canal 12,1 g - GCA2017, Goderis et al.
	Javaite	Sangiran, Java, Indonesia	7.07	individual 22,8 g - GCA2017, Goderis et al.
	Javaite, projectile-bearing	Sangiran, Java, Indonesia	7.08	individual 0,28 g - GCA2017, Goderis et al.
	Javaite, projectile-bearing	Sangiran, Java, Indonesia	7.09	shale like individual 0,55 g, lost while destructive analysis - GCA2017, Goderis et al.
	Javaite, projectile-bearing	Sangiran, Java, Indonesia	7.10	3 individuals 0,8 g - GCA2017, Goderis et al.
	Javaite, projectile-bearing	Sangiran, Java, Indonesia	7.11	2 individuals 0,5 g - GCA2017, Goderis et al.
	Javaite, projectile-bearing	Java, Indonesia	7.12	oval individual 2,2 g - GCA2017, Goderis et al.
	Javaite	Madura, Java, Indonesia	7.13	individual 12,7 g - GCA2017, Goderis et al.
Australites			0.7 Ma	
	Australite	Todmorden, S-Australia, Australia	3.01	botton partly flanged 3,7 g - GCA2017, Goderis et al.
	Australite	196 miles N of Mares, S-Australia, Australia	3.02	drop-like individual 1,1 g - GCA2017, Goderis et al.
	Australite	Port Campbell, Victoria, Australia	3.03	botton without flange 3,8 g - GCA2017, Goderis et al.
	Australite	Victoria, Australia	3.04	oval botton without flange 2,0 g - GCA2017, Goderis et al.
	Australite	Lavers Hill, Port Campbell, Victoria, Australia	3.05	botton without flange 4,4 g - GCA2017, Goderis et al.
	Australite	Lavers Hill, Port Campbell, Victoria, Australia	3.06	botton without flange 2,1 g - GCA2017, Goderis et al.
	Australite cast		3.07	100% flanged botton 3,0 g
	Australite	Lake Toren Plain, Flinders Range, SA	3.08	80% flanged botton 2,07 g - GCA2017, Goderis et al.
	Australite	Motpena Station, SA	3.09	3,9 g - GCA2017, Goderis et al.
	Australite	Fink Territory, Northern Australia	3.10	disc like shape 3,8 g - GCA2017, Goderis et al.
	Australite	Finke, Northern Territory, Australia (1973)	3.11	part flange 0,26 g
	Australite	Finke, Northern Territory, Australia (1973)	3.12	elongated bowl shaped 7,5 g
	Australite	Finke, Northern Territory, Australia (1973)	3.13	broken elongated specimen 2,8 g
	Australite	Finke, Northern Territory, Australia (1973)	3.14	elongated part individual with part flange 1,82 g
	Australite	Finke, Northern Territory, Australia (1973)	3.15	lens with part flange 1,97 g
	Australite	Finke, Northern Territory, Australia (1973)	3.16	lens with part flange 1,97 g - GCA2017, Goderis et al.
	Australite	Finke, Northern Territory, Australia (1973)	3.17	elongated part individual with part flange 2,2 g - GCA2017, Goderis et al.
	Australite	Finke, Northern Territory, Australia (1973)	3.18	oval specimen 2,29 g - GCA2017, Goderis et al.

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES LOCALITY	AGE BI-No.	DIAMETER Specimen
Australite		Finke, Northern Territory, Australia (1973)	3.19	oval specimen 2,66 g - GCA2017, Goderis et al.
Australite		Finke, Northern Territory, Australia (1973)	3.20	oval specimen 1,17 g
Australite		Finke, Northern Territory, Australia (1973)	3.21	3,3 g
Australite		Finke, Northern Territory, Australia (1973)	3.22	1,72 g
Australite		Finke, Northern Territory, Australia (1973)	3.23	2,2 g
Australite		Finke, Northern Territory, Australia (1973)	3.24	rim-less knob 4,3 g
Australite		Finke, Northern Territory, Australia (1973)	3.25	rim-less knob 7,1 g
Australite		Finke, Northern Territory, Australia (1973)	3.26	core shaped individual 8,5 g
Australite		near Malcolm Station, ~25 km E Leonora, Western Australia	3.27	lens, partly flanged 1,99 g
Australite		NE Goldfields, Western Australia	3.28	wedged boat core 3,33 g
Australite		NE Goldfields, Western Australia	3.29	boat bowl 1,58 g
Australite		NE Goldfields, Western Australia	3.30	wedged boat core 1,24 g
Australite		NE Goldfields, Western Australia	3.31	asymmetrical dumbbell lens 0,58
Australite		NE Goldfields, Western Australia	3.32	boat indicator 1,51 g
Australite		NE Goldfields, Western Australia	3.33	lens 1,30 g
Australite		NE Goldfields, Western Australia	3.34	lens 1,16 g
Australite		NE Goldfields, Western Australia	3.35	narrow oval indicator 0,65 g
Australite		NE Goldfields, Western Australia	3.36	oval bowl 0,28 g
Australite		NE Goldfields, Western Australia	3.37	partly flanged botten 0,63 g

NORTH-AMERICAN STREWN FIELDS

Bediasites

Bediasite		Texas, U.S.A.	34.2 Ma 5.01	5,5 g
Bediasite		Texas, U.S.A.	5.02	6,9 g
Bediasite		Abilene, Texas, U.S.A.	5.03	2,9 g
Bediasite		Abilene, Texas, U.S.A.	5.04	2,4 g
Bediasite		Abilene, Texas, U.S.A.	5.05	2,8 g
Bediasite		Summerville, Texas, U.S.A. (1959), donation H. Eisenlohr 2016/06	5.06	2,62 g

Georgianites

Georgianite		Cochran (1970), Georgia, USA	34.2 Ma 9.01	1,2 g
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MIDDLE-AMERICAN STREWN FIELDS

Belizeites

Belizeite		donation from Pierre Rochette 08/2016	0,8 Ma 11.01	1,21 g
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ATACAMA STREWN FIELD

Atacamaites

Atacamaite		donation from Pierre Rochette 08/2016	12.01	bent cylindrical individual 1,36 g
Atacamaite		donation from Pierre Rochette 08/2016	12.02	individual 0,89 g
Atacamaite		donation from Pierre Rochette 08/2016	12.03	teardrop with wealded beads 0,60 g
Atacamaite		donation from Pierre Rochette 08/2016	12.04	cigar shaped individual 0,69 g
Atacamaite		donation from Pierre Rochette 08/2016	12.05	cigar shaped individual 0,61 g
Atacamaite		donation from Pierre Rochette 08/2016	12.06	cigar shaped individual 0,61 g
Atacamaite		donation from Pierre Rochette 08/2016	12.07	clab shaped individual 0,60 g
Atacamaite		donation from Pierre Rochette 08/2016	12.08	pill shaped individual 0,38 g
Atacamaite		donation from Pierre Rochette 08/2016	12.09	bent individual with wealded beads 0,45 g
Atacamaite		donation from Pierre Rochette 08/2016	12.10	pill shaped individual 0,33 g

ZHAMANSHIN STREWN FIELD

Irghizites

Irghizite		Zhamanshin Crater, Kazachstan	1 Ma 1 Ma 6.01	hook shaped individual 2,1 g
Irghizite		Zhamanshin Crater, Kazachstan	6.02	Y-shaped fragment 1,4 g
Irghizite		Zhamanshin Crater, Kazachstan	6.03	string shaped fragment 1 g
Irghizite		Zhamanshin Crater, Kazachstan	6.04	string shaped lustery fragment 0,2 g
Irghizite		Zhamanshin Crater, Kazachstan	6.05	string shaped torsioned fragment 1,2 g
Irghizite		Zhamanshin Crater, Kazachstan	6.06	string shaped torsioned fragment 0,9 g
Irghizite		Zhamanshin Crater, Kazachstan	6.07	3 string shaped torsioned lustery frag. 0,7 g
Irghizite		Zhamanshin Crater, Kazachstan	6.08	string shaped bended lustery frag. 0,4 g
Irghizite		Zhamanshin Crater, Kazachstan	6.09	string shaped bended fragment 0,6 g
Irghizite		Zhamanshin Crater, Kazachstan	6.10	3 welded string shaped lustery frag. 0,67 g
Irghizite		Zhamanshin Crater, Kazachstan	6.11	3 lustery fragments 1,0 g
Irghizite		Zhamanshin Crater, Kazachstan	6.12	hook shaped lustery fragment 0,4 g
Irghizite		Zhamanshin Crater, Kazachstan	6.13	fragments and individuals 28,8 g
Irghizite (1222 ppm Ni)		Zhamanshin Crater, Kazachstan	6.14	individual 2,4 g
Irghizite		Zhamanshin Crater, Kazachstan	6.15	individual 3,0 g
Irghizite		Zhamanshin Crater, Kazachstan	6.16	individual 2,4 g

WABAR STREWN FIELD

Wabar pearls

Wabar pearl		Wabar Crater, Saudi Arabia	17.01	individual 0,9 g
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PSEUDOTEKTITES

PT

Obsidiane		Vinicne, Kosice, Slovakia	1.1	2 rounded fragments 25,6 g
"Americanite" Obsidiane		Cauca, Columbia	2.1	broken individual with "rhegmaglypts" 27,5 g

BARTOSCHEWITZ COLLECTION OF IMPACT ROCKS

STRUCTURE	IMPACT ROCK	COORDINATES <i>LOCALITY</i>	AGE <i>BI-No.</i>	DIAMETER <i>Specimen</i>
"Apache tear" Obsidiane		USA	3.1	rounded individual "Apache tear" 26 g
Artificial Glass		Recherche Bay, Tasmania, Australia	4.1	light green moldavite-like glass, found by H.-D. Laatsch (11/82) 3,8 g
Obsidiane		Brehov, Slovakia	5.1	individual with "regmaglypts" 65,3 g
Obsidiane		Brehov, Slovakia	5.2	individual with "regmaglypts" 46,7 g
Obsidiane		Brehov, Slovakia	5.3	individual with "regmaglypts" 17,5 g
Obsidiane		Brehov, Slovakia	5.4	individual with "regmaglypts" 14,1 g
Obsidiane		Brehov, Slovakia	5.5	broken ind. with "regmaglypts" 12,7 g