

Quartz-samples from potential Secondary-Impact-Craters & -structures caused by the Ø 1270 x 950 km PT-Crater, which indicate an Impact-shock event :

→ For more detailed information please read [Part 6](#) (or [here](#)) of my study, and follow the links to the Raman-analyses or go to my website :

→ [Geological Evidence](#)
(or alternative : [here](#))

Note : The main-Raman-peaks of α -Quartz (unshocked quartz) have the wave-numbers : **464, 264, 206** and **128 cm⁻¹**

→ A shift of $\geq 1 - 2 \text{ cm}^{-1}$ of the main-Raman peaks, indicates that the quartz was shocked with an impact-shock-pressure of $\geq 20 \text{ GPa}$

Impact-Crater or -structure	Sample-Site area	Sample-Site No.	Sample	Spectral-Line Position in cm ⁻¹			
				Main Quarz-Spectral-Lines			
Ø 130 x 110 km Bay-of-Lyon Crater (France/Spain)	crater-wall-area	27-B	stone 3	463	261	205	125
		27-B	stone 6	461			125
Ø 30 km Impact Structure (Spain)	crater-wall	50	stone 1	463	261	205	127
Ø 1,6 x 1,2 km Impact Crater (Spain)	crater-center	40-B	stone 1	463	261/263	203	127
PTI-Ejecta-Ray 1 Structures (Spain)		6-A	stone 1	463	261	204	126
Ø 160 km Salerno Impact Crater (Italy)	crater-wall-area	21	stone 1		261	204	125
		21	stone 2		260	205	
Ø 320 km Cape York Crater (NE-Australia)	just outside of crater-wall	46-C	stone 1	463	261	203	126
Ø 40 x 33 km elliptical Impact Crater (NW-Australia / Pilbara)	crater-center & ejecta-structures	25	stone 2	463	261	205	125
		11	stone 2	463	260	204	126
		10	stone 2	463			126
Ø 30 km Mt Warning Impact Crater (East-Australia)	crater-wall-area	8-B2	stone 3	463	260	205	127
		8-B3	stone 1		263	205	
Ø 8 x 7 km elliptical Warwick Crater (E-Australia)	crater-center-area	43	stone 1	463		204	
		53	stone 1		263	204	
PTI-Ejecta-Ray-4 impact-Structures (West-Australia) in the Margaret River area (on the western border of the Australian Plate)	Ejecta-impact-structures	5-B	stone 1	463	258/264	205	126
		2	stone 1			204	125
		7-B	stone 1		263		126
Ejecta-Ray Structure of the Ø 420 km SOC-Crater (SOC = Southern Ocean Crater / SW-Australia)	Ejecta-impact-structures	55	stone 1		263	205	
		50	stone 2			204	124
Ejecta-Ray Structures in the Kalgoorlie-area (W-Australia) caused either by the PHC or VLC (PHC=Port Hedland Crater; VLC=Victoria Lake Crater) Note : the Super-Pit gold-mine in Kalgoorlie is one of the largest gold-mines in the world. Other rare- and heavy-elements are present in this area	Ejecta-impact-structures	2	stone 1	462	261	204	125
		2	stone 2	463	260	205	
		4	stone 1	463	260	204	
		5	stone 1	463	260/266		
		21	stone 1	463	261		125
		27	stone 1	463	261	205	125
		31	stone 1	463	257/267	204	125
		13	stone 1			204	126
Ejecta-Ray Structures in the Southern-Cross-area caused either by the PHC or VLC (PHC=Port Hedland Crater; VLC=Victoria Lake Crater)	Ejecta-impact-structures	1	stone 1	463	261	204	126
		9	stone 1	463	261	205	
		16	stone 1	463	261	205	
Ejecta-Ray Structures in the Geraldton-area (W-Australia) caused either by the PHC or VLC (PHC=Port Hedland Crater; VLC=Victoria Lake Crater)	Ejecta-impact-structures	11	stone 2	461			126
		17	stone 1	463	262/268		125
		12	stone 2		261		126

GPS - datas					
Latitude			Longitude		
42°	19,276	N	3°	19,028	E
37°	31,508	N	1°	28,925	W
36°	49,823	N	2°	5,035	W
39°	42,036	N	2°	33,932	E
40°	7,67	N	15°	14,621	E
14°	48,875	S	144°	57,644	E
20°	33,374	S	118°	42,786	E
20°	21,904	S	119°	27,818	E
20°	19,691	S	119°	27,394	E
28°	30,971	S	153°	12,48	E
28°	30,972	S	153°	12,483	E
28°	11,288	S	151°	45,418	E
28°	14,335	S	151°	47,524	E
33°	52,745	S	114°	58,89	E
33°	33,575	S	115°	0,365	E
34°	22,507	S	115°	8,101	E
32°	7,457	S	123°	10,561	E
32°	0,712	S	122°	47,863	E
30°	54,591	S	121°	12,552	E
30°	55,361	S	121°	11,702	E
30°	55,529	S	121°	11,523	E
30°	50,865	S	121°	30,069	E
31°	8,356	S	121°	37,714	E
31°	11,047	S	121°	38,736	E
30°	52,004	S	121°	13,039	E
31°	2,082	S	119°	9,223	E
30°	47,582	S	118°	59,288	E
30°	46,712	S	118°	56,13	E
29°	13,227	S	116°	20,477	E
29°	11,412	S	116°	14,237	E
29°	13,253	S	116°	19,932	E

Please note :

The listed samples sites (→ see GPS-datas) are from impact-craters and impact-structures which are still unknown to the geological society !

These sites represent secondary impact-craters and impact-structures of the PT-Impact Event.