

PBS v1.21 2024 Generic Abacus - 308(inch) 190(gr) Bullet - SIERRA HPBT Matchking - Rifle Bore RightTwist 1:11.0 (inch) - Muzzle Speed 772 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current conditions : G1 0.542 - G7 0.273

100 = 0				125 = 1				150 = 2				175 = 4										
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)										
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30							
0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	-1							
Local Absolute Pressure (hPA)																						
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863							
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Air Temperature (°C)																						
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0							
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0							
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0							
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII							
2								E: 0.0 W: 0.0 AJ: -0.0	E: 0.0 W: 1.0 AJ: -0.0	E: 0.0 W: 1.0 AJ: -1.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -1.0 AJ: 1.0	E: -0.0 W: -1.0 AJ: 0.0	E: -0.0 W: -0.0 AJ: 0.0	E: 0.0 W: -0.0 AJ: 0.0							
								4								E: 0.0 W: 1.0 AJ: -1.0	E: 0.0 W: 1.0 AJ: -1.0	E: 0.0 W: 1.0 AJ: -1.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -1.0 AJ: 1.0	E: -0.0 W: -1.0 AJ: 1.0	E: -0.0 W: -1.0 AJ: 1.0
																E: 0.0 W: 1.0 AJ: -1.0	E: 0.0 W: 2.0 AJ: -1.0	E: 0.0 W: 2.0 AJ: -2.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -2.0 AJ: 2.0	E: -0.0 W: -2.0 AJ: 1.0	E: -0.0 W: -1.0 AJ: 1.0
6																E: 0.0 W: 1.0 AJ: -1.0	E: 0.0 W: 2.0 AJ: -1.0	E: 0.0 W: 2.0 AJ: -2.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -2.0 AJ: 2.0	E: -0.0 W: -2.0 AJ: 1.0	E: -0.0 W: -1.0 AJ: 1.0
								8								E: 0.0 W: 2.0 AJ: -1.0	E: 0.0 W: 3.0 AJ: -2.0	E: 0.0 W: 3.0 AJ: -2.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -3.0 AJ: 2.0	E: -0.0 W: -2.0 AJ: 2.0	E: -0.0 W: -1.0 AJ: 1.0
																E: 0.0 W: 3.0 AJ: -1.0	E: 0.0 W: 4.0 AJ: -2.0	E: 0.0 W: 4.0 AJ: -3.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -4.0 AJ: 3.0	E: -0.0 W: -2.0 AJ: 2.0	E: -0.0 W: -1.0 AJ: 1.0
10																E: 0.0 W: 3.0 AJ: -1.0	E: 0.0 W: 4.0 AJ: -2.0	E: 0.0 W: 4.0 AJ: -3.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -4.0 AJ: 3.0	E: -0.0 W: -2.0 AJ: 2.0	E: -0.0 W: -1.0 AJ: 1.0
								Spin Drift (click) : 0 Maximum Y (m) : 0.0 At (m) : 90.0 Time to get there (s) : 0.13														
								How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD														

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500 = 39				525 = 42				550 = 46				575 = 50											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30								
0	-1	-6	-12	0	-1	-6	-13	0	-1	-7	-15	0	-2	-7	-16								
Local Absolute Pressure (hPA)																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863								
2	2	1	1	0	0	0	0	-1	-1	-1	-2	-2	-2	-3	-3								
Air Temperature (°C)																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0								
-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0								
0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	3								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0								
3	3	3	4	4	4	5	5	5	6	6	6	7	7	7	8								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII								
2								E: 0.0 W: 2.0 AJ: -0.0	E: 0.0 W: 4.0 AJ: -0.0	E: 0.0 W: 4.0 AJ: -1.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -4.0 AJ: 1.0	E: -0.0 W: -4.0 AJ: 0.0	E: -0.0 W: -2.0 AJ: 0.0	E: 0.0 W: -0.0 AJ: 0.0								
								4								E: 0.0 W: 4.0 AJ: -1.0	E: 0.0 W: 7.0 AJ: -1.0	E: 0.0 W: 8.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -8.0 AJ: 1.0	E: -0.0 W: -7.0 AJ: 1.0	E: -0.0 W: -4.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
																E: 1.0 W: 6.0 AJ: -1.0	E: 0.0 W: 11.0 AJ: -1.0	E: 0.0 W: 12.0 AJ: -2.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -12.0 AJ: 2.0	E: -0.0 W: -10.0 AJ: 1.0	E: -1.0 W: -6.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
6																E: 1.0 W: 9.0 AJ: -1.0	E: 1.0 W: 15.0 AJ: -2.0	E: 0.0 W: 16.0 AJ: -2.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -16.0 AJ: 2.0	E: -1.0 W: -14.0 AJ: 2.0	E: -1.0 W: -8.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
								8								E: 1.0 W: 11.0 AJ: -1.0	E: 1.0 W: 19.0 AJ: -2.0	E: 0.0 W: 21.0 AJ: -3.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -21.0 AJ: 3.0	E: -1.0 W: -17.0 AJ: 2.0	E: -1.0 W: -9.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
																10							
Spin Drift (click) : -1 Maximum Y (m) : 0.82 At (m) : 302.0 Time to get there (s) : 0.75																							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																							

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600 = 53				625 = 57				650 = 61				675 = 66											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30								
0	-2	-8	-17	0	-2	-8	-18	0	-2	-9	-19	0	-2	-10	-21								
Local Absolute Pressure (hPA)																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863								
4	3	2	1	1	0	0	-1	-1	-2	-2	-3	-4	-4	-5	-5								
Air Temperature (°C)																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0								
-3	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	0	0	0	0	0								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0								
0	0	0	1	1	1	2	2	2	3	3	3	4	4	4	5								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0								
5	6	6	7	7	7	8	8	9	10	10	11	11	12	13	13								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII								
2								E: 0.0 W: 3.0 AJ: -0.0	E: 0.0 W: 4.0 AJ: -0.0	E: 0.0 W: 5.0 AJ: -1.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -5.0 AJ: 1.0	E: -0.0 W: -4.0 AJ: 0.0	E: -0.0 W: -2.0 AJ: 0.0	E: 0.0 W: -0.0 AJ: 0.0								
								4								E: 1.0 W: 5.0 AJ: -1.0	E: 0.0 W: 9.0 AJ: -1.0	E: 0.0 W: 10.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -10.0 AJ: 1.0	E: -0.0 W: -9.0 AJ: 1.0	E: -1.0 W: -5.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
																E: 1.0 W: 8.0 AJ: -1.0	E: 1.0 W: 13.0 AJ: -1.0	E: 0.0 W: 15.0 AJ: -2.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -15.0 AJ: 2.0	E: -1.0 W: -13.0 AJ: 1.0	E: -1.0 W: -7.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
6																E: 1.0 W: 11.0 AJ: -1.0	E: 1.0 W: 18.0 AJ: -2.0	E: 0.0 W: 20.0 AJ: -2.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -20.0 AJ: 2.0	E: -1.0 W: -17.0 AJ: 2.0	E: -1.0 W: -10.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
								8								E: 2.0 W: 14.0 AJ: -1.0	E: 1.0 W: 23.0 AJ: -2.0	E: 0.0 W: 25.0 AJ: -3.0	E: -2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -25.0 AJ: 3.0	E: -1.0 W: -21.0 AJ: 2.0	E: -1.0 W: -12.0 AJ: 1.0	E: 2.0 W: -0.0 AJ: 0.0
																10							
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700 = 70				725 = 74				750 = 79				775 = 83											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30								
0	-2	-10	-22	0	-3	-11	-24	0	-3	-12	-25	0	-3	-13	-27								
Local Absolute Pressure (hPa)																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863								
6	5	3	2	1	0	0	-1	-2	-3	-4	-5	-6	-6	-7	-8								
Air Temperature (°C)																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0								
-4	-4	-4	-3	-3	-3	-3	-2	-2	-2	-1	-1	0	0	0	0								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0								
0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	8								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0								
8	9	10	10	11	12	13	14	15	15	16	17	18	19	20	22								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII								
2								E: 0.0 W: 3.0 AJ: -0.0	E: 0.0 W: 5.0 AJ: -0.0	E: 0.0 W: 6.0 AJ: -1.0	E: -0.0 W: 0.0 AJ: -0.0	E: 0.0 W: -6.0 AJ: 1.0	E: -0.0 W: -5.0 AJ: 0.0	E: -0.0 W: -3.0 AJ: 0.0	E: 0.0 W: -0.0 AJ: 0.0								
								4								E: 1.0 W: 6.0 AJ: -1.0	E: 0.0 W: 11.0 AJ: -1.0	E: 0.0 W: 12.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -12.0 AJ: 1.0	E: -0.0 W: -10.0 AJ: 1.0	E: -1.0 W: -6.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
																E: 1.0 W: 9.0 AJ: -1.0	E: 1.0 W: 16.0 AJ: -1.0	E: 0.0 W: 18.0 AJ: -2.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -18.0 AJ: 2.0	E: -1.0 W: -15.0 AJ: 1.0	E: -1.0 W: -9.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
6																E: 2.0 W: 13.0 AJ: -1.0	E: 1.0 W: 22.0 AJ: -2.0	E: 0.0 W: 24.0 AJ: -2.0	E: -2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -24.0 AJ: 2.0	E: -1.0 W: -20.0 AJ: 2.0	E: -2.0 W: -11.0 AJ: 1.0	E: 2.0 W: -0.0 AJ: 0.0
								8								E: 2.0 W: 16.0 AJ: -1.0	E: 1.0 W: 27.0 AJ: -2.0	E: 0.0 W: 30.0 AJ: -3.0	E: -2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -30.0 AJ: 3.0	E: -1.0 W: -25.0 AJ: 2.0	E: -2.0 W: -14.0 AJ: 1.0	E: 2.0 W: -0.0 AJ: 0.0
																10							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																							

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800 = 88				825 = 93				850 = 98				875 = 104			
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)			
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30
0	-3	-13	-28	0	-3	-14	-30	0	-4	-15	-32	0	-4	-16	-34

Local Absolute Pressure (hPA)

1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863
9	7	5	3	2	0	0	-2	-3	-5	-6	-7	-8	-10	-11	-12

Air Temperature (°C)

57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0
-6	-6	-6	-5	-5	-4	-4	-3	-3	-2	-2	-1	-1	0	0	0
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0
0	1	2	2	3	4	4	5	6	6	7	8	9	10	11	12
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0
13	14	15	16	17	18	19	21	22	23	25	26	28	29	31	33

Wind Speed (m/s) - Wind Direction (hour) ->	I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII
2	E: 0.0	E: 0.0	E: 0.0	E: -1.0	E: 0.0	E: -0.0	E: -0.0	E: 1.0
	W: 4.0	W: 6.0	W: 7.0	W: 0.0	W: -7.0	W: -6.0	W: -4.0	W: -0.0
	AJ: -0.0	AJ: -0.0	AJ: -1.0	AJ: -0.0	AJ: 1.0	AJ: 0.0	AJ: 0.0	AJ: 0.0
4	E: 1.0	E: 1.0	E: 0.0	E: -1.0	E: 0.0	E: -1.0	E: -1.0	E: 1.0
	W: 7.0	W: 13.0	W: 14.0	W: 0.0	W: -14.0	W: -12.0	W: -7.0	W: -0.0
	AJ: -1.0	AJ: -1.0	AJ: -1.0	AJ: -0.0	AJ: 1.0	AJ: 1.0	AJ: 1.0	AJ: 0.0
6	E: 1.0	E: 1.0	E: 0.0	E: -2.0	E: 0.0	E: -1.0	E: -1.0	E: 2.0
	W: 11.0	W: 19.0	W: 21.0	W: 0.0	W: -21.0	W: -18.0	W: -10.0	W: -0.0
	AJ: -1.0	AJ: -1.0	AJ: -2.0	AJ: -0.0	AJ: 2.0	AJ: 1.0	AJ: 1.0	AJ: 0.0
8	E: 2.0	E: 1.0	E: 0.0	E: -2.0	E: 0.0	E: -1.0	E: -2.0	E: 2.0
	W: 15.0	W: 25.0	W: 28.0	W: 0.0	W: -28.0	W: -24.0	W: -14.0	W: -0.0
	AJ: -1.0	AJ: -2.0	AJ: -2.0	AJ: -0.0	AJ: 2.0	AJ: 2.0	AJ: 1.0	AJ: 0.0
10	E: 2.0	E: 1.0	E: 0.0	E: -3.0	E: 0.0	E: -1.0	E: -2.0	E: 3.0
	W: 19.0	W: 32.0	W: 36.0	W: 0.0	W: -36.0	W: -30.0	W: -17.0	W: -0.0
	AJ: -1.0	AJ: -2.0	AJ: -3.0	AJ: -0.0	AJ: 3.0	AJ: 2.0	AJ: 1.0	AJ: 0.0

Spin Drift (click) : -2 Maximum Y (m) : 3.18 At (m) : 536.0 Time to get there (s) : 1.32

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900 = 109				925 = 115				950 = 121				975 = 127											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30								
0	-4	-17	-36	0	-4	-18	-38	0	-5	-19	-40	0	-5	-20	-42								
Local Absolute Pressure (hPa)																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863								
13	10	7	5	3	1	-1	-3	-5	-7	-8	-10	-12	-13	-15	-17								
Air Temperature (°C)																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0								
-9	-9	-8	-7	-7	-6	-6	-5	-4	-4	-3	-2	-2	-1	0	0								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0								
1	2	2	3	4	5	6	7	8	9	11	12	13	14	16	17								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0								
18	20	21	23	24	26	28	30	32	34	36	38	40	42	45	48								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII								
2								E: 1.0 W: 4.0 AJ: -0.0	E: 0.0 W: 7.0 AJ: -0.0	E: 0.0 W: 8.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -8.0 AJ: 1.0	E: -0.0 W: -7.0 AJ: 0.0	E: -1.0 W: -4.0 AJ: 0.0	E: 1.0 W: -0.0 AJ: 0.0								
								4								E: 1.0 W: 8.0 AJ: -1.0	E: 1.0 W: 14.0 AJ: -1.0	E: 0.0 W: 16.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -16.0 AJ: 1.0	E: -1.0 W: -14.0 AJ: 1.0	E: -1.0 W: -8.0 AJ: 1.0	E: 1.0 W: -0.0 AJ: 0.0
																6							
8																							
								10															
																Spin Drift (click) : -2 Maximum Y (m) : 4.62 At (m) : 626.0 Time to get there (s) : 1.54							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																							

PBS v1.21 2024 Generic Abacus - 308(inch) 190(gr) Bullet - SIERRA HPBT Matchking - Rifle Bore RightTwist 1:11.0 (inch) - Muzzle Speed 772 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current conditions : G1 0.542 - G7 0.273

1000 = 133				1025 = 139				1050 = 145				1075 = 152											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30								
0	-5	-21	-44	0	-6	-22	-46	0	-6	-23	-49	0	-6	-25	-51								
Local Absolute Pressure (hPa)																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863								
17	14	10	7	4	1	-1	-4	-6	-9	-12	-14	-16	-18	-20	-22								
Air Temperature (°C)																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0								
-13	-12	-11	-10	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	0								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0								
1	2	3	5	6	7	9	10	12	13	15	16	18	20	22	24								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0								
26	28	30	32	34	37	39	42	44	47	50	53	56	60	63	67								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII								
2								E: 1.0 W: 5.0 AJ: -0.0	E: 0.0 W: 8.0 AJ: -0.0	E: 0.0 W: 9.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -9.0 AJ: 1.0	E: -0.0 W: -8.0 AJ: 0.0	E: -1.0 W: -5.0 AJ: 0.0	E: 1.0 W: -0.0 AJ: 0.0								
								4								E: 1.0 W: 10.0 AJ: -1.0	E: 1.0 W: 17.0 AJ: -1.0	E: 0.0 W: 19.0 AJ: -1.0	E: -2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -19.0 AJ: 1.0	E: -1.0 W: -16.0 AJ: 1.0	E: -1.0 W: -9.0 AJ: 1.0	E: 2.0 W: -0.0 AJ: 0.0
																E: 2.0 W: 15.0 AJ: -1.0	E: 1.0 W: 25.0 AJ: -1.0	E: 0.0 W: 28.0 AJ: -2.0	E: -2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -28.0 AJ: 2.0	E: -1.0 W: -24.0 AJ: 1.0	E: -2.0 W: -14.0 AJ: 1.0	E: 3.0 W: -0.0 AJ: 0.0
6																E: 3.0 W: 20.0 AJ: -1.0	E: 2.0 W: 33.0 AJ: -2.0	E: 0.0 W: 38.0 AJ: -2.0	E: -3.0 W: 0.0 AJ: -0.0	E: 0.0 W: -38.0 AJ: 2.0	E: -2.0 W: -32.0 AJ: 2.0	E: -3.0 W: -18.0 AJ: 1.0	E: 3.0 W: -0.0 AJ: 0.0
								8								E: 4.0 W: 25.0 AJ: -1.0	E: 2.0 W: 42.0 AJ: -2.0	E: 0.0 W: 47.0 AJ: -3.0	E: -4.0 W: 0.0 AJ: -0.0	E: 0.0 W: -47.0 AJ: 3.0	E: -2.0 W: -40.0 AJ: 2.0	E: -4.0 W: -22.0 AJ: 1.0	E: 4.0 W: -0.0 AJ: 0.0
																10							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																							

PBS v1.21 2024 Generic Abacus - 308(inch) 190(gr) Bullet - SIERRA HPBT Matchking - Rifle Bore RightTwist 1:11.0 (inch) - Muzzle Speed 772 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current conditions : G1 0.542 - G7 0.273

1100 = 159				1125 = 166				1150 = 173				1175 = 181																											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)																											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30																								
0	-6	-26	-54	0	-7	-27	-56	0	-7	-29	-59	0	-8	-30	-62																								
Local Absolute Pressure (hPA)																																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863																								
23	18	14	10	5	1	-2	-5	-9	-12	-15	-18	-21	-24	-27	-30																								
Air Temperature (°C)																																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0																								
-17	-16	-15	-14	-13	-12	-11	-10	-8	-7	-6	-5	-3	-2	0	0																								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0																								
2	3	5	7	8	10	12	14	16	18	20	22	25	27	29	32																								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0																								
35	37	40	43	46	50	53	57	60	64	68	73	77	82	87	92																								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII																								
2								E: 1.0 W: 5.0 AJ: -0.0	E: 1.0 W: 9.0 AJ: -0.0	E: 0.0 W: 11.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -11.0 AJ: 1.0	E: -0.0 W: -9.0 AJ: 0.0	E: -1.0 W: -5.0 AJ: 0.0	E: 1.0 W: -0.0 AJ: 0.0																								
								4								E: 2.0 W: 11.0 AJ: -1.0	E: 1.0 W: 19.0 AJ: -1.0	E: 0.0 W: 21.0 AJ: -1.0	E: -2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -21.0 AJ: 1.0	E: -1.0 W: -18.0 AJ: 1.0	E: -2.0 W: -10.0 AJ: 1.0	E: 2.0 W: -0.0 AJ: 0.0																
																6								E: 3.0 W: 16.0 AJ: -1.0	E: 2.0 W: 28.0 AJ: -1.0	E: 0.0 W: 32.0 AJ: -2.0	E: -3.0 W: 0.0 AJ: -0.0	E: 0.0 W: -32.0 AJ: 2.0	E: -1.0 W: -27.0 AJ: 1.0	E: -3.0 W: -16.0 AJ: 1.0	E: 3.0 W: -0.0 AJ: 0.0								
																								8								E: 4.0 W: 22.0 AJ: -1.0	E: 2.0 W: 38.0 AJ: -2.0	E: 0.0 W: 43.0 AJ: -2.0	E: -4.0 W: 0.0 AJ: -0.0	E: 0.0 W: -43.0 AJ: 2.0	E: -2.0 W: -36.0 AJ: 2.0	E: -3.0 W: -21.0 AJ: 1.0	E: 4.0 W: -0.0 AJ: 0.0
																																10							
Spin Drift (click) : -3 Maximum Y (m) : 9.11 At (m) : 822.0 Time to get there (s) : 2.01																																							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																																							

PBS v1.21 2024 Generic Abacus - 308(inch) 190(gr) Bullet - SIERRA HPBT Matchking - Rifle Bore RightTwist 1:11.0 (inch) - Muzzle Speed 772 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current conditions : G1 0.542 - G7 0.273

1200 = 189				1225 = 197				1250 = 205				1275 = 213																											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)																											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30																								
0	-8	-31	-65	0	-8	-33	-68	0	-9	-34	-71	0	-9	-36	-74																								
Local Absolute Pressure (hPA)																																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863																								
31	24	18	13	7	2	-2	-7	-11	-16	-20	-24	-28	-31	-35	-38																								
Air Temperature (°C)																																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0																								
-22	-21	-20	-18	-17	-16	-14	-13	-11	-9	-8	-6	-4	-3	-1	0																								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0																								
2	4	7	9	11	13	16	18	21	24	27	30	33	36	39	43																								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0																								
46	50	54	58	62	66	71	76	81	86	91	97	103	110	116	123																								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII																								
2								E: 1.0 W: 6.0 AJ: -0.0	E: 1.0 W: 10.0 AJ: -0.0	E: 0.0 W: 12.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -12.0 AJ: 1.0	E: -1.0 W: -10.0 AJ: 0.0	E: -1.0 W: -6.0 AJ: 0.0	E: 1.0 W: -0.0 AJ: 0.0																								
								4								E: 2.0 W: 12.0 AJ: -1.0	E: 1.0 W: 21.0 AJ: -1.0	E: 0.0 W: 24.0 AJ: -1.0	E: -2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -24.0 AJ: 1.0	E: -1.0 W: -21.0 AJ: 1.0	E: -2.0 W: -12.0 AJ: 1.0	E: 2.0 W: -0.0 AJ: 0.0																
																6								E: 3.0 W: 18.0 AJ: -1.0	E: 2.0 W: 32.0 AJ: -1.0	E: 0.0 W: 36.0 AJ: -2.0	E: -3.0 W: 0.0 AJ: -0.0	E: 0.0 W: -36.0 AJ: 2.0	E: -2.0 W: -31.0 AJ: 1.0	E: -3.0 W: -18.0 AJ: 1.0	E: 4.0 W: -0.0 AJ: 0.0								
																								8								E: 4.0 W: 25.0 AJ: -1.0	E: 2.0 W: 42.0 AJ: -2.0	E: 0.0 W: 48.0 AJ: -2.0	E: -5.0 W: 0.0 AJ: -0.0	E: 0.0 W: -48.0 AJ: 2.0	E: -2.0 W: -41.0 AJ: 2.0	E: -4.0 W: -23.0 AJ: 1.0	E: 5.0 W: -0.0 AJ: 0.0
																																10							
Spin Drift (click) : -3 Maximum Y (m) : 12.47 At (m) : 927.0 Time to get there (s) : 2.27																																							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																																							

PBS v1.21 2024 Generic Abacus - 308(inch) 190(gr) Bullet - SIERRA HPBT Matchking - Rifle Bore RightTwist 1:11.0 (inch) - Muzzle Speed 772 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current conditions : G1 0.542 - G7 0.273

1300 = 222				1325 = 231				1350 = 240				1375 = 250																											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)																											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30																								
0	-10	-38	-77	0	-10	-39	-81	0	-11	-41	-84	0	-11	-43	-88																								
Local Absolute Pressure (hPA)																																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863																								
40	31	24	16	9	3	-3	-9	-15	-20	-26	-31	-36	-40	-45	-49																								
Air Temperature (°C)																																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0																								
-29	-27	-26	-24	-22	-20	-18	-16	-14	-12	-10	-8	-6	-3	-1	1																								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0																								
3	6	9	11	14	17	21	24	27	31	35	39	43	47	51	56																								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0																								
60	65	70	75	81	87	93	99	106	113	120	128	136	144	153	163																								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII																								
2								E: 1.0 W: 7.0 AJ: -0.0	E: 1.0 W: 12.0 AJ: -0.0	E: 0.0 W: 13.0 AJ: -1.0	E: -1.0 W: 0.0 AJ: -0.0	E: 0.0 W: -13.0 AJ: 1.0	E: -1.0 W: -12.0 AJ: 0.0	E: -1.0 W: -7.0 AJ: 0.0	E: 1.0 W: -0.0 AJ: 0.0																								
								4								E: 2.0 W: 14.0 AJ: -1.0	E: 1.0 W: 23.0 AJ: -1.0	E: 0.0 W: 27.0 AJ: -1.0	E: -3.0 W: 0.0 AJ: -0.0	E: 0.0 W: -27.0 AJ: 1.0	E: -1.0 W: -23.0 AJ: 1.0	E: -2.0 W: -13.0 AJ: 1.0	E: 3.0 W: -0.0 AJ: 0.0																
																6								E: 4.0 W: 21.0 AJ: -1.0	E: 2.0 W: 35.0 AJ: -1.0	E: 0.0 W: 40.0 AJ: -2.0	E: -4.0 W: 0.0 AJ: -0.0	E: 0.0 W: -40.0 AJ: 2.0	E: -2.0 W: -34.0 AJ: 1.0	E: -4.0 W: -20.0 AJ: 1.0	E: 4.0 W: -0.0 AJ: 0.0								
																								8								E: 5.0 W: 28.0 AJ: -1.0	E: 3.0 W: 47.0 AJ: -2.0	E: 0.0 W: 54.0 AJ: -2.0	E: -5.0 W: 0.0 AJ: -0.0	E: 0.0 W: -54.0 AJ: 2.0	E: -3.0 W: -46.0 AJ: 2.0	E: -5.0 W: -26.0 AJ: 1.0	E: 6.0 W: -0.0 AJ: 0.0
																																10							
Spin Drift (click) : -4 Maximum Y (m) : 16.85 At (m) : 1036.0 Time to get there (s) : 2.55																																							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																																							

PBS v1.21 2024 Generic Abacus - 308(inch) 190(gr) Bullet - SIERRA HPBT Matchking - Rifle Bore RightTwist 1:11.0 (inch) - Muzzle Speed 772 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current conditions : G1 0.542 - G7 0.273

1500 = 301				1525 = 312				1550 = 324				1575 = 335																											
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)																											
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30																								
0	-14	-53	-108	0	-14	-56	-113	0	-15	-58	-118	0	-16	-60	-122																								
Local Absolute Pressure (hPA)																																							
1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863																								
64	50	38	26	15	4	-5	-14	-23	-32	-40	-48	-56	-63	-69	-76																								
Air Temperature (°C)																																							
57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0																								
-46	-43	-41	-38	-35	-32	-29	-26	-23	-20	-16	-13	-9	-6	-2	1																								
17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0																								
5	10	14	19	24	28	34	39	45	50	57	63	69	76	83	91																								
-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0																								
99	107	115	124	133	143	153	164	175	187	199	213	226	241	256	273																								
Wind Speed (m/s) - Wind Direction (hour) ->								I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII																								
2								E: 2.0 W: 8.0 AJ: -0.0	E: 1.0 W: 14.0 AJ: -0.0	E: 0.0 W: 16.0 AJ: -1.0	E: -2.0 W: 0.0 AJ: -0.0	E: 0.0 W: -16.0 AJ: 1.0	E: -1.0 W: -14.0 AJ: 0.0	E: -2.0 W: -8.0 AJ: 0.0	E: 2.0 W: -0.0 AJ: 0.0																								
								4								E: 3.0 W: 17.0 AJ: -1.0	E: 2.0 W: 29.0 AJ: -1.0	E: 0.0 W: 33.0 AJ: -1.0	E: -4.0 W: 0.0 AJ: -0.0	E: 0.0 W: -33.0 AJ: 1.0	E: -2.0 W: -28.0 AJ: 1.0	E: -3.0 W: -16.0 AJ: 1.0	E: 4.0 W: -0.0 AJ: 0.0																
																6								E: 5.0 W: 25.0 AJ: -1.0	E: 3.0 W: 43.0 AJ: -1.0	E: 0.0 W: 49.0 AJ: -2.0	E: -5.0 W: 0.0 AJ: -0.0	E: 0.0 W: -49.0 AJ: 2.0	E: -3.0 W: -42.0 AJ: 1.0	E: -5.0 W: -24.0 AJ: 1.0	E: 6.0 W: -0.0 AJ: 0.0								
																								8								E: 7.0 W: 34.0 AJ: -1.0	E: 4.0 W: 57.0 AJ: -2.0	E: 0.0 W: 65.0 AJ: -2.0	E: -7.0 W: 0.0 AJ: -0.0	E: 0.0 W: -65.0 AJ: 2.0	E: -4.0 W: -56.0 AJ: 2.0	E: -6.0 W: -32.0 AJ: 1.0	E: 8.0 W: -0.0 AJ: 0.0
																																10							
Spin Drift (click) : -5 Maximum Y (m) : 29.74 At (m) : 1266.0 Time to get there (s) : 3.17																																							
How to use this Abacus ? Read HowToPBS_Abacus.pdf in https://github.com/fabienfigueras/TLD																																							

PBS v1.21 2024 Generic Abacus - 308(inch) 190(gr) Bullet - SIERRA HPBT Matchking - Rifle Bore RightTwist 1:11.0 (inch) - Muzzle Speed 772 (m/s) in ICAO Atmosphere - Sight Height : 70.0 (mm) - Ballistic Coefficient in current conditions : G1 0.542 - G7 0.273

1600 = 347				1625 = 360				1650 = 373				1675 = 386			
Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)				Vertical Shooting Angle (deg)			
0	10	20	30	0	10	20	30	0	10	20	30	0	10	20	30
0	-16	-63	-127	0	-17	-65	-132	0	-18	-68	-138	0	-19	-71	-143

Local Absolute Pressure (hPA)

1088	1073	1058	1043	1028	1013	998	983	968	953	938	923	908	893	878	863
79	63	47	33	19	6	-6	-18	-29	-40	-50	-59	-68	-77	-85	-93

Air Temperature (°C)

57.5	55.0	52.5	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	27.5	25.0	22.5	20.0
-57	-54	-50	-47	-44	-40	-37	-33	-29	-25	-21	-16	-12	-7	-2	2

17.5	15.0	12.5	10.0	7.5	5.0	2.5	0.0	-2.5	-5.0	-7.5	-10.0	-12.5	-15.0	-17.5	-20.0
7	12	18	23	29	36	42	49	56	63	71	79	87	96	105	114

-22.5	-25.0	-27.5	-30.0	-32.5	-35.0	-37.5	-40.0	-42.5	-45.0	-47.5	-50.0	-52.5	-55.0	-57.5	-60.0
124	134	145	156	168	180	193	207	221	237	253	269	287	306	326	347

Wind Speed (m/s) - Wind Direction (hour) ->	I / V	II / IV	III	VI	IX	VIII / X	VII / XI	XII
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2	E: 2.0	E: 1.0	E: 0.0	E: -2.0	E: 0.0	E: -1.0		
	W: 9.0	W: 16.0	W: 18.0	W: 0.0	W:	W:	E: -2.0	E: 2.0
	AJ: -0.0	AJ: -0.0	AJ: -1.0	AJ: -0.0	-18.0	-15.0	W: -9.0	W: -0.0
					AJ: 1.0	AJ: 0.0	AJ: 0.0	AJ: 0.0

4	E: 4.0	E: 2.0	E: 0.0	E: -4.0	E: 0.0	E: -2.0	E: -4.0	E: 4.0
	W: 18.0	W: 31.0	W: 36.0	W: 0.0	W:	W:	W:	W: -0.0
	AJ: -1.0	AJ: -1.0	AJ: -1.0	AJ: -0.0	-36.0	-31.0	-18.0	AJ: 0.0
					AJ: 1.0	AJ: 1.0	AJ: 1.0	

6	E: 6.0	E: 3.0	E: 0.0	E: -6.0	E: 0.0	E: -3.0	E: -5.0	E: 7.0
	W: 27.0	W: 47.0	W: 54.0	W: 0.0	W:	W:	W:	W: -0.0
	AJ: -1.0	AJ: -1.0	AJ: -2.0	AJ: -0.0	-54.0	-46.0	-26.0	AJ: 0.0
					AJ: 2.0	AJ: 1.0	AJ: 1.0	

8	E: 8.0	E: 4.0	E: 0.0	E: -8.0	E: 0.0	E: -4.0	E: -7.0	E: 9.0
	W: 37.0	W: 63.0	W: 72.0	W: 0.0	W:	W:	W:	W: -0.0
	AJ: -1.0	AJ: -2.0	AJ: -2.0	AJ: -0.0	-72.0	-61.0	-35.0	AJ: 0.0
					AJ: 2.0	AJ: 2.0	AJ: 1.0	

10	E: 10.0	E: 6.0	E: 0.0	E: -10.0	E: 0.0	E: -5.0	E: -9.0	E: 11.0
	W: 46.0	W: 79.0	W: 90.0	W: 0.0	W:	W:	W:	W: -0.0
	AJ: -1.0	AJ: -2.0	AJ: -3.0	AJ: -0.0	-90.0	-76.0	-43.0	AJ: 0.0
					AJ: 3.0	AJ: 2.0	AJ: 1.0	

Spin Drift (click) : -6 Maximum Y (m) : 38.94 At (m) : 1386.0 Time to get there (s) : 3.51

How to use this Abacus ? Read HowToPBS Abacus.pdf in <https://github.com/fabienfigueras/TLD>