

Extended Data Table 3 | Characteristics of other comets for which a change in rotation period has been measured

Name	$P$ (hr)	$\Delta P$ (hr)	Interval* (yr)	$\Delta P$ /orbit (hr/orbit)	Effective Radius (km)	Active Fraction (%)	$X$	References
41P/T-G-K	20	>26	0.2	>26	<1	>50	78	This paper; 13
2P/Encke	11	-0.072	3.3	-0.072	2.4	1.0	1.0	13, 16, 18
9P/Tempel 1	41	-0.233	5.52	-0.233	2.8	6.5	1.1	16, 18, 30
10P/Tempel 2	9	0.018	22.5	0.045	5.3	0.8	1.9	13, 16, 31, 32
19P/Borelly	29	>0.667	13	0.33	2.4	9.1	5.1	16, 20, 31, 33
67P/C-G (pre) **)	12	0.027	1.21	0.027	1.65	2.0	0.4	2, 21, 34, 35
67P/C-G (post) **)		-0.375	1.33	-0.375			6.1	2, 21, 34, 35
103P/Hartley 2	17	2	0.25	2	0.57	>100	1.5	13, 17, 18, 19
Levy (1990c)	19	-1.3	0.058	-1.3	-	-	-	36, 37

Data are from this work and refs 2, 13, 16–21 and 30–37.

\*Interval between measurements of rotation period, which may not reflect the time it took to change. In some instances, changes in period have been observed on multiple orbits.

\*\*For 67P/Churyumov–Gerasimenko (67P/C-G), characteristics before and after perihelion are given separately.