

The tables below gives estimates of the GPS capacity and battery lifetime of a picoFix UHF + depth sensor tag (non-solar).

This is to give an indication of how the amount of diving and the volume of data that is subsequently generated, will impact upon the available battery power to wirelessly transmit the GPS + depth data to the Pathtrack base station. Examples of 0h, 3h, and 6h of daily diving have been used. All estimates are based on the following settings: 10 minute GPS sampling rate, 30 min UHF rate, 4s sensor rate.

Table "A"	Diving behaviour	Estimated number of GPS location attempts	Expected battery lifetime (days)
	0hrs (i.e. no diving)	700	4.5
without data compression	3hrs of diving per day	400	3
	6hrs of diving per day	300	2
with data compression	3hrs of diving per day	480	3.5
	6hrs of diving per day	370	2.5

Table "B"	Diving behaviour	Estimated number of GPS location attempts	Expected battery lifetime (days)
	0hrs (i.e. no diving)	1400	9.5
without data compression	3hrs of diving per day	850	6
	6hrs of diving per day	610	4
with data compression	3hrs of diving per day	1000	7
	6hrs of diving per day	790	5.5

Table "C"	Diving behaviour	Estimated number of GPS location attempts	Expected battery lifetime (days)
	0hrs (i.e. no diving)	2200	15.5
without data compression	3hrs of diving per day	1350	9.5
	6hrs of diving per day	980	7
with data compression	3hrs of diving per day	1600	11
	6hrs of diving per day	1260	9

Table "D"	Diving behaviour	Estimated number of GPS location attempts	Expected battery lifetime (days)
	0hrs (i.e. no diving)	5000	34
without data compression	3hrs of diving per day	3050	21
	6hrs of diving per day	2200	15
with data compression	3hrs of diving per day	3610	25
	6hrs of diving per day	2830	19.5

Table "E"	Diving behaviour	Estimated number of GPS location attempts	Expected battery lifetime (days)
	0hrs (i.e. no diving)	10000	69
without data compression	3hrs of diving per day	6100	42
	6hrs of diving per day	4400	30.5
with data compression	3hrs of diving per day	7230	50
	6hrs of diving per day	5670	39.5

Table "F"	Diving behaviour	Estimated number of GPS location attempts	Expected battery lifetime (days)
	0hrs (i.e. no diving)	13300	92
without data compression	3hrs of diving per day	8140	56.5
	6hrs of diving per day	5860	41
with data compression	3hrs of diving per day	9640	67
	6hrs of diving per day	7550	52.5

Table "G"	Diving behaviour	Estimated number of GPS location attempts	Expected battery lifetime (days)
	0hrs (i.e. no diving)	20000	138
without data compression	3hrs of diving per day	12200	85
	6hrs of diving per day	8800	61
with data compression	3hrs of diving per day	14450	100
	6hrs of diving per day	11330	80