Turtle data format, as recorded by program CARETTA.COM

Last updated: March 2020

CARETTA and TURTLE data formats are identical, except that turtle sightings have a sighting number in columns 40-44, and the rest of the t event items are shifted right by five columns.

Sample DAS section (starts below column indicators)

```
0         1         2         3         4         5         6         7
12345678901234567890123456789012345678901234567890123456789012345678901234567
-------------------------------------------------------------------------------
 35* 111100 090200 N36:46.37 W121:47.58
 36T.111107 090200 N36:46.48 W121:47.86   16
 37V.111107 090200 N36:46.48 W121:47.86    e    g    e    e    g
 38P.111107 090200 N36:46.48 W121:47.86   sb   jb   kf   td
 39A.111107 090200 N36:46.48 W121:47.86  650  100
 40W.111107 090200 N36:46.48 W121:47.86   rh   60    1    1    5
 41*.111200 090200 N36:47.78 W121:48.90
 42V.111207 090200 N36:48.01 W121:49.00    e    g    g    e    g
 43C.111234 090200 N36:48.60 W121:49.75 last transect was 14;
 44t.111250 090200 N36:48.84 W121:50.16   16   sb  -40    1   cc    2    u
 45*.111300 090200 N36:49.00 W121:50.45
 46S.111310 090200 N36:49.11 W121:50.67   17   kf   73    1   el
 47V.111324 090200 N36:49.42 W121:51.20    e    g    g    e    g
 48S.111326 090200 N36:49.46 W121:51.25   18   sb  -46   30   lo   zc
   1                                                          80   20
 49W.111328 090200 N36:49.49 W121:51.31    n   60    1    2    5
 50C.111340 090200 N36:49.66 W121:51.59 6 feet turtle
```

Columns	Item	Format
1-3	Line number	###
4	Event Code	#
5	Effort dot or blank	#
6-11	Time	HHMMSS
12	Blank	#
13-18	Date	MMDDYY
19	Blank	#
20-28	Latitude	NDD:MM.MM
29	Blank	#
30-39	Longitude	WDDD:MM.MM
40-44	Data fields. Information is event-code specific, according to key below All fields must be RIGHT JUSTIFIED within the 5 provided spaces.	
45-49		
50-54		
55-59		
60-64		
65-69		
70+		

Event code	Col>40	Description/Key
* = Auto-position	--	Automatically logged position (every minute)
# = Deletion marker	--	Notes location of deleted entries.
C =Comment	41-132	Notes, corrections, molas, fish balls, etc.
E = End effort	--	Temporary end effort to circle, go over land/clouds etc.
R = Resume effort	--	Resume from temporary end effort

Event code	Col 40+	Description/Key
O= Transect End	--	Use to signal end of transect lines
T =Transect Start	40-44	Transect # (up to 4 numeric characters)
V =Viewing Condition		E=*excellent, G=Good, P=Poor, O=Off*
	40-44	Left inside (<35 degrees)
	45-49	Left outside (>35 degrees)
	50-54	Belly
	55-59	Right Inside (<35 degrees)
	60-64	Right Outside (>35 degrees)
P =Observer Codes		*2-character initials (unique)*
	40-44	Left Observer
	45-49	Belly Observer
	50-54	Right Observer
	55-59	Recorder
A = Altitude/Speed	40-44	Altitude in feet
	45-49	Speed in knots
W =Weather/Env.	40-44	*H=Haze/K=Kelp/R=Red tide/N=None* (Priority when more than one present: R > K > H > N)
	45-49	% overcast BETWEEN SUN AND VIEWING AREA
	50-54	Beaufort sea state *(0, 1, 2, 3, 4, 5)*
	55-59	Jellyfish *0=none, 1=few, 2=moderate, 3=lots*
	60-64	Horizontal sun *(Clock system, 12 = ahead, 6=behind*)
S = Sighting (Mammal)	40-44	Sighting number, numeric only, up to 4 digits
	45-49	Observer who made sighting
	50-54	Declination angle (LEFT = negative)
	55-59	Number of animals (best estimate)
	60-64	Species 1, 2-char. species code
	65-69	Species 2, 2-char. species code (blank if no other spp.)
	70-74	Species 3, 2-char. species code (blank if no other spp.)
1 = Ancillary sighting info		Species percentages, for multi-species sightings only
	60-64	Species 1 percent
	65-69	Species 2 percent
	70-74	Species 3 percent (blank if no other spp.)
s = Re-sight	40-44	Sighting number
	45-49	Declination Angle (LEFT=negative)
t = Turtle Sighting	40-44	Sighting number
	45-49	Observer who made sighting
	50-54	Declination angle (LEFT = negative)
	55-59	Number of turtles
	60-64	Species code *(dc=leatherback, uh = unid. hard shell)*
	65-69	Size of turtle, either in feet or s/m/l code
	70-74	Tail Visible? *(Y=Yes, N=No, U=Unknown)*

SPECIES CODES:

Recorded using 'Sighting' key (F2)

Large whales
PM Sperm whale
MN Humpback whale
BM Blue whale
BP Fin whale
ER Gray whale
EG Right whale
BB Sei whale
BE Bryde's whale
UB Unid. baleen whale
LW Unid. large whale

Medium-sized whales
BD *Berardius bairdii*
ZI *Ziphius cavirostris*
UM *Mesoplodon* sp.
MC *Mesoplodon carlhubbsi*
UK *Kogia* sp.
BA Minke whale
SW Unid. small whale

Dolphins/Porpoises
PP Harbor porpoise
PD Dall's porpoise
DD *Delphinus* (unspecified)
DS *Delphinus* (short-beaked)
DL *Delphinus* (long-beaked)
LB *Lissodelphis*
LO '*Lags'* / Pacific white-sided
GG Grampus / Risso's
GM Pilot whale
OO Killer whale
UD Unid. dolphin/porpoise

Pinnipeds/Fissiped
PV Harbor seal
MA Elephant seal
EJ Steller sea lion
CU Northern fur seal
EL Sea otter
PU Unid. pinniped
US Unid. Seal
[ZC CA sea lion - Not recorded]

Other
M1 Small *Mola mola* (<2ft)
M2 Medium *Mola mola* (2-4ft)
M3 Large *Mola mola* (>4ft)

Recorded using 'Turtle Sighting' (shift-F4)

Turtles
DC Leatherback
CC Loggerhead
CM Green Turtle
LV Olive ridley (TODO – check with Tomo)
UH Unid. hardshell

Miscellaneous (Recorded in comments)
ALBF Black-footed albatross
FB#x Fish Ball (e.g. fb1m, fb10s)
Sharks – comment
JFx### - JF species & % composition
(x = C for Chrysaora, M for moon jelly, E for egg-yolk jelly, and O for other)
(e.g. JFC080 JFM020 for 80% chrysaora, 20% moon jelly; record whenever species composition changes.)