

Harbor Porpoise Aerial Survey (HPAS) AS data format,
as recorded by program PHOCOENA.COM

Last updated: 3/10/2020

Sample DAS section (starts below column indicators)

	0	1	2	3	4	5	6	7
	1234567890123456789012345678901234567890123456789012345678901234567							
T	71	10/	9/90	16:	9:31	N37:57.20	W122:47.49	700 23
V	72	10/	9/90	16:	9:31	N37:57.20	W122:47.49	700 p p e e g
P	73	10/	9/90	16:	9:31	N37:57.20	W122:47.49	700 49 43 41 40
A	74	10/	9/90	16:	9:31	N37:57.20	W122:47.49	700 700 100
W	75	10/	9/90	16:	9:31	N37:57.20	W122:47.49	700 n 0 1 8 2
*	76	10/	9/90	16:10:	1	N37:57.22	W122:48.49	700
W	77	10/	9/90	16:10:12		N37:57.25	W122:48.84	700 n 0 3 11 2
V	80	10/	9/90	16:10:33		N37:57.33	W122:49.55	700 p p g g g
E	81	10/	9/90	16:11:	1	N37:57.46	W122:50.43	700
C	82	10/	9/90	16:12:	1	N37:57.77	W122:52.35	700 off effort, low clouds
R	83	10/	9/90	16:13:	1	N37:58.04	W122:54.33	700
S	84	10/	9/90	16:13:	1	N37:58.04	W122:54.33	700 2 pp 1 47 41
S	85	10/	9/90	16:13:10		N37:58.08	W122:54.66	700 3 pp 4 55 43
*	89	10/	9/90	16:17:	1	N37:58.97	W123:02.00	700
W	90	10/	9/90	16:17:14		N37:59.02	W123:02.40	700 n 0 2 11 2
S	91	10/	9/90	16:17:54		N37:59.19	W123:03.67	700 4 dc 1 61 41
*	92	10/	9/90	16:18:	1	N37:59.22	W123:03.89	700
C	93	10/	9/90	16:18:26		N37:59.32	W123:04.67	700 turtle was large
*	94	10/	9/90	16:19:	1	N37:59.50	W123:05.74	700
S	95	10/	9/90	16:19:51		N37:59.75	W123:07.37	700 5 pd 2 45 40
O	97	10/	9/90	16:20:42		N38:00.02	W123:08.97	700

Columns	Item	Format
1	Event Code	#
2	Blank	#
3-5	Line number	###
6-7	Blank	#
8-15	Date	MM/DD/YY
16	Blank	#
17-24	Time	HH:MM:SS
25	Blank	#
26-34	Latitude	NDD:MM.MM
35	Blank	#
36-45	Longitude	WDDD:MM.MM
46	Blank	#
47-50	Altitude	####
51-55	Data fields. Information is event-code specific, according to key below. All data except comments are RIGHT JUSTIFIED within the 5-character field.	
56-60		
61-65		
66-70		
71-75		

Event code	Col>50	Description/Key
* = Auto-position	--	Automatically logged position (every minute)
C =Comment	51-132	Notes, corrections, etc
E = End effort	--	Temporary end effort to circle, go over land/clouds etc.
R = Resume effort (Cont'd)	--	Resume from temporary end effort

Event code	Col >50	Description/Key
O= Transect End	--	Use to signal end of transect lines
T =Transect Start	52-55	Transect # (up to 4 numeric characters)
V =Viewing Condition		<i>E=excellent, G=Good, P=Poor, O=Off</i>
	51-55	Left inside (<35 degrees)
	56-60	Left outside (>35 degrees)
	61-65	Belly
	66-70	Right Inside (<35 degrees)
	71-75	Right Outside (>35 degrees)
P =Observer Codes		<i>2-character initials (unique)</i>
	51-55	Left Observer
	56-60	Belly Observer
	61-65	Right Observer
	66-70	Recorder
A = Altitude/Speed	51-55	Altitude in feet
	56-60	Speed in knots
W =Weather/Env.	51-55	<i>H=Haze/K=Kelp/N=None</i> (Priority when more than one present: K > H > N)
	56-60	% overcast BETWEEN SUN AND VIEWING AREA
	61-65	Beaufort sea state (0, 1, 2, 3, 4, 5)
	66-70	Horizontal sun (<i>Clock system, 12 = ahead, 6=behind</i>)
	71-75	Vertical Sun (<i>4=straight up, 1=high, 2=med, 3=low</i>)
S = Sighting (Mammal)	51-55	Sighting number (numeric, rarely with characters)
	56-60	Species code
	61-65	Number of animals (best estimate)
	66-70	Declination angle (LEFT = negative)
	71-75	Observer code (numeric; later initials/characters)