

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 (Clock system, 12 = ahead, 6=behind)
	71-75	Vertical Sun (4=straight up, 1=high, 2=med, 3=low)
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)

SPECIES CODES:

Also see SpCodesAirDAS.dat

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
 UW Unid. large whale
 UC Unid. cetacean

Medium-sized whales

BD *Berardius bairdii*
 ZI *Ziphius cavirostris*
 ZU Unid. beaked whale
 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
 UP Unid. porpoise
 DD *Delphinus* (unspecified)
 DS *Delphinus* (short-beaked)
 DL *Delphinus* (long-beaked)
 LB *Lissodelphis borealis*
 LO 'Lags' / Pacific white-sided
 GG Grampus / Risso's
 TT *Tursiops truncatus*
 GM Pilot whale
 OO Killer whale
 UD Unid. dolphin/porpoise

Pinnipeds/Fissiped

PV Harbor seal
 MA Elephant seal
 EJ Stellar sea lion
 CU Northern fur seal
 EL Sea otter
 PU Unid. pinniped
 US Unid. Seal
 [ZC CA sea lion – Usually not recorded]

Other

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

Turtles

DC Leatherback
 CC Loggerhead
 CM Green turtle
 LV Olive ridley
 UH Unid. hardshell
 UT Unid. turtle

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.)
 # CP Crab pot (e.g. 2 cp, 10 cp)