



Southwest Bottlenose Dolphin Consortium

Ruth Williams



The Issue:
better evidence
to
influence policy

SW Bottlenose Dolphin Conference – October 2016

“Moving forward to secure a future for our iconic marine neighbours”.



- Biology and ecology
- Cornish population – what we know
- Establishing abundance
- Threats, policy and protection
- Expert workshops

Results:

- Conference report
- Establishment of SW Bottlenose Dolphin Consortium

(01872)

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www.cornwallwildlifetrust.org.uk

Protecting Cornwall's wildlife for the future

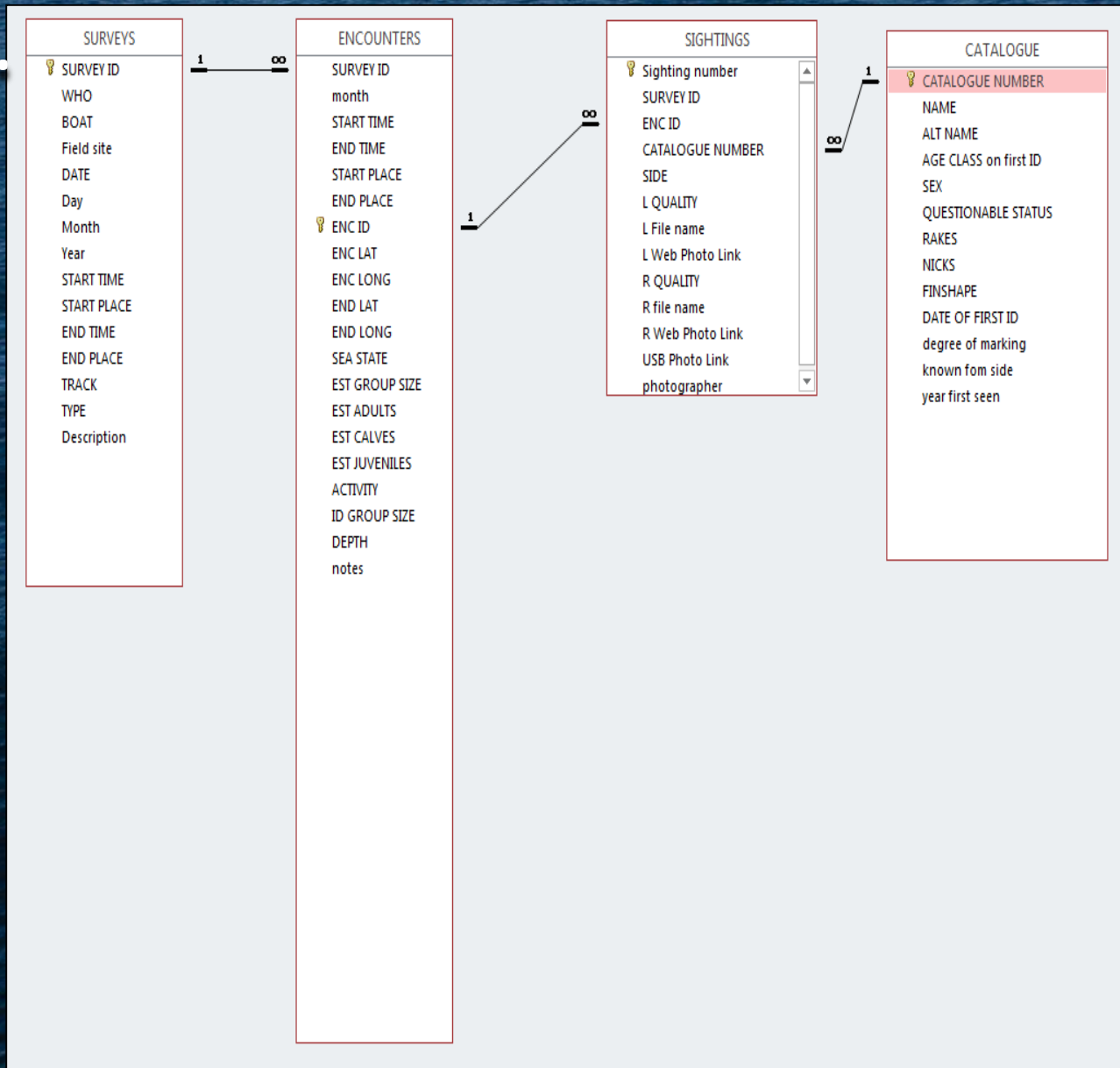


Cornwall

What do we know?
What do we need to know?



What happens to your data...



What happens to your data...

SURVEYS															
SURVEY ID	WHO	BOAT	Field site	DATE	Day	Month	Year	START TIME	START PLAC	END TIME	END PLACE	TRACK	TYPE	Description	Click to Add
254	Marine Discovery		Mount's Bay	02/04/2015	2	4	2015		Penzance		Penzance		Marine Tour O		
255	Marine Discovery		Mount's Bay	30/10/2015	30	10	2015		Penzance		Penzance		Marine Tour O		
256	Marine Discovery		Mount's Bay	20/03/2016	20	3	2016		Penzance		Penzance		Marine Tour O		
257	Marine Discovery		Mount's Bay	25/03/2016	25	3	2016		Penzance		Penzance		Marine Tour O		
258	Marine Discovery		Mount's Bay	17/04/2016	17	4	2016		Penzance		Penzance		Marine Tour O		
259	Marine Discovery		Mount's Bay	14/05/2016	14	5	2016		Penzance		Penzance		Marine Tour O		

ENCOUNTERS															
SURVEY ID	START	END TI	START PLACE	END PLACE	ENC ID	ENC LAT	ENC LONG	END LAT	END LONG	SEA STATE	EST GROUP	EST ADULTS	EST CALVES	EST JUVENIL	ACTIVITY
254	12:10				120	50.10327	-5.49713				5	7	5		2
255	10:15				121	50.11368	-5.51477				2	14	11		3
256	12:16				122	50.1144667	-5.5093833				2	3	3		
256	12:46				123	50.1145333	-5.5224167				2	14	10		3
257	10:21				124	50.1155833	-5.5255833				1	2	2		
258	14:39				125	50.0493833	-5.5825667				2	1	1		

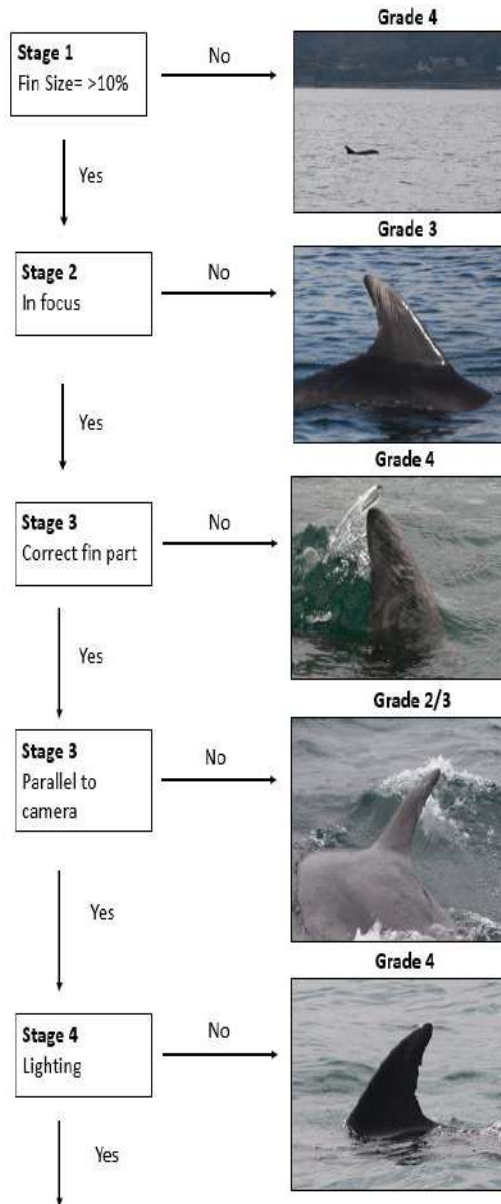
SIGHTINGS															
Sighting num	SURVEY ID	ENC I	CATALOGUE NUMBEF	SID	L QUALIT	L File name	L Web Photo Link	R QUALIT	R file name	R Web Photo Lin	USB Photo L	photographer	Click to Add		
409	254	120		38	3	4 IMG_6636.JPG		4	IMG_6674.JPG			Duncan Jones			
261	254	120		41	2	4 IMG_6636.JPG		4	IMG_6707.JPG			Duncan Jones			
262	254	120		42	3	4 IMG_6696.JPG		4	IMG_6688.JPG			Duncan Jones			
263	254	120		43	2	4 IMG_6698.JPG		4	IMG_6691.JPG			Duncan Jones			
264	255	121		1	3	3 IMG_3239.JPG	https://liveplymouth.co.uk	4	IMG_3233.JPG	https://liveplymouth.co.uk	E:\SW BD Proj	Duncan Jones			
333	255	121		2	3	3 IMG_3169.JPG		4	IMG_3173.JPG			Duncan Jones			
265	255	121		3	3	4 IMG_3241.JPG		4	IMG_3170.JPG			Duncan Jones			
266	255	121		4	1	4 IMG_3237.JPG						Duncan Jones			
267	255	121		8	1	4 IMG_3256.JPG						Duncan Jones			
335	255	121		23	2			4	IMG_3143.JPG			Duncan Jones			
334	255	121		34	2			4	IMG_3126.JPG			Duncan Jones			
269	256	122		10	3	1 IMG_7645.JPG		2	IMG_7641.JPG			Duncan Jones			
279	256	122		15	3	3 IMG_7656.JPG		4	IMG_7649.JPG			Duncan Jones			
340	256	122		36	3	1 IMG_7642.JPG		2	IMG_7639.JPG			Duncan Jones			
273	256	123		1	3	3 IMG_7679.JPG	https://liveplymouth.co.uk	2	IMG_7749.JPG	https://liveplymouth.co.uk	E:\SW BD Proj	Duncan Jones			
272	256	123		2	1	3 IMG_7676.JPG						Duncan Jones			
271	256	123		3	3	4 IMG_7698.JPG		4	IMG_7754.JPG			Duncan Jones			
277	256	123		6	1	3 IMG_7771.JPG						Duncan Jones			

South West Bottlenose Dolphin Consortium



Photo ID Handbook

Photo Grading Standards



Training Manual



2 SCRATCHY



2007	2008	2009	2010	2011
2012	2013	2014	2015	2016

6 SMALL STEP



2007	2008	2009	2010	2011
2012	2013	2014	2015	2016

11 OVERHANG



2007	2008	2009	2010	2011
2012	2013	2014	2015	2016

15 WHITESTRIKE 2011



15 WHITESTRIKE 2012



15 WHITESTRIKE 2013



Outcomes...

Abundance Estimate

Overall Distribution

Individual Distribution

Long Term Site Fidelity

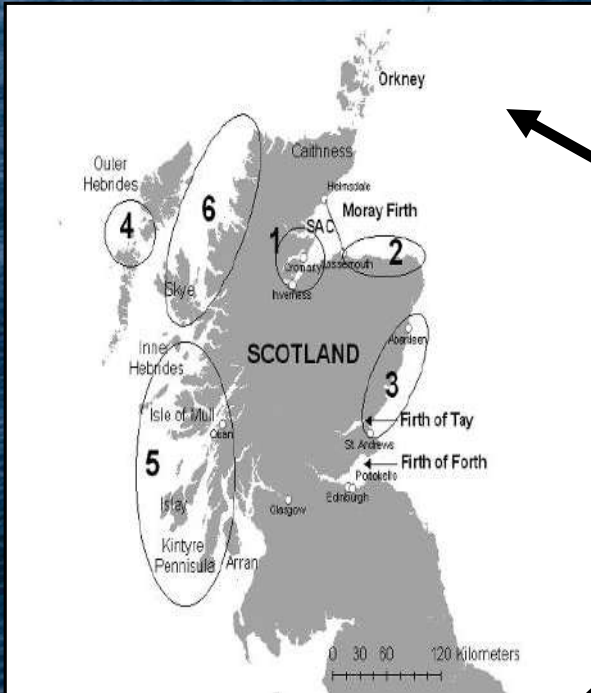
Seasonal Variation

Social Network

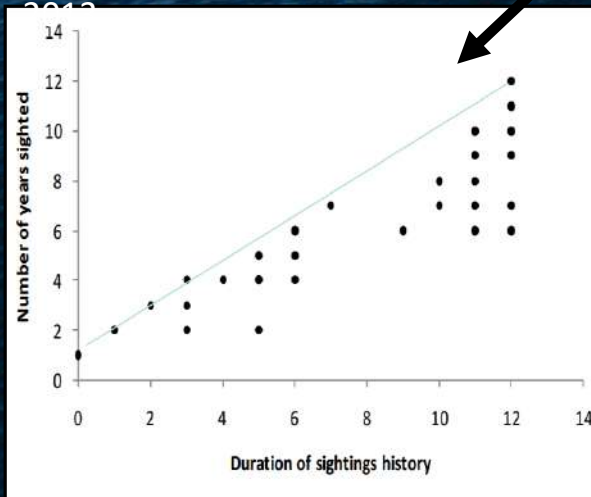
Analysis

Habitat Modelling

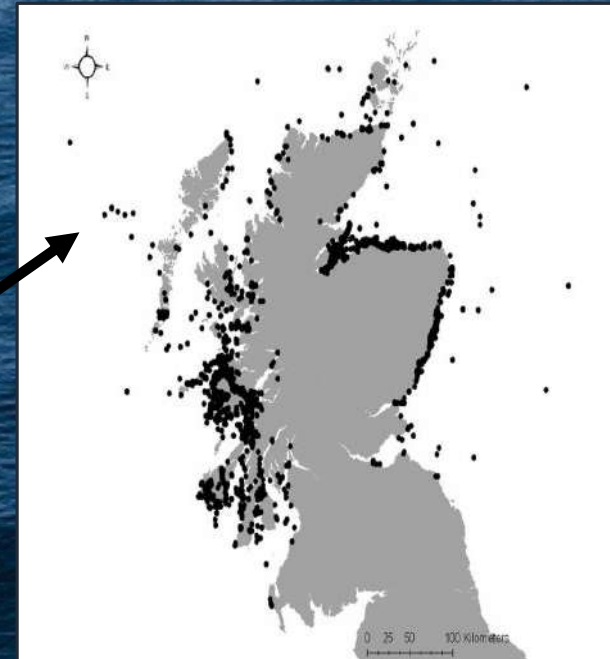
Group Size Trends



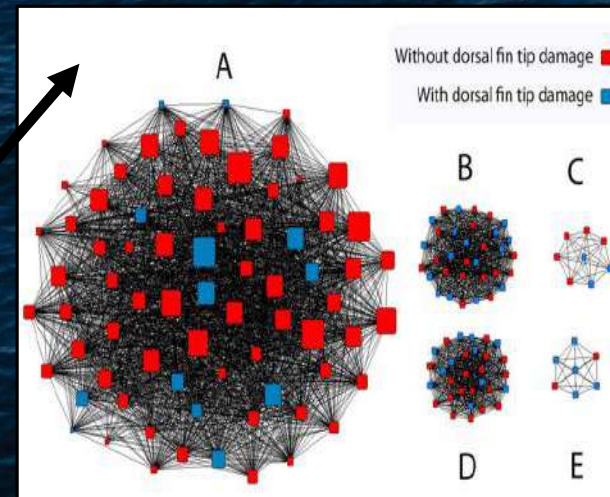
Cheney et al., 2012



Ingram et al., 2002



Cheney et al., 2013



Oudejans et al., 2015

Dolphin data – Photos and sightings

- Email: sequest@cornwallwildlifetrust.org.uk
- Online: www.ORKS.org.uk
- Call: one off sightings to 01872 302261
- Post: ERCCIS, Cornwall Wildlife Trust, Allet, Truro, TR4 9DJ

Collaboration - Share, assess, learn and protect!

Thank you!

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