# A COMPARISON OF INITIAL STATISTICAL CATCH-AT-AGE AND CATCH-AT-LENGTH ASSESSMENTS OF WESTERN ATLANTIC BLUEFIN TUNA

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# SUMMARY

A concern associated with existing Atlantic bluefin tuna age-based assessments using VPA is that the catch-at-age data inputs are obtained by the cohort-slicing method, which is approximate and might introduce appreciable bias into the results. Current custom in such circumstances is rather to fit the assessment model directly to the basic catch-at-length data available, under the assumption of invariance of the distributions of length-at-age of the fish over time, with statistical models used to formulate the likelihoods maximised in the model fitting process. Initial results are presented for a process of comparing the 2012 ICCAT SCRS VPA assessment of the western stock with first a statistical catch-at-age assessment approach which also uses the same cohort-sliced catch-at-age inputs, and then a statistical catch-atlength method which fits instead to catch-at-length distributions.

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# 1. Introduction

The longer term objective of this work is the development of a two-stock assessment of the North Atlantic bluefin tuna population which takes mixing between the fish of western and of eastern origin into account, in particular by using new information from electronic tags and from otolith microchemistry in the model fitting process (i.e. similar to the model developed by Taylor *et al.* 2011). This should provide a more realistically based assessment of the bluefin tuna in the North Atlantic (and Mediterranean) and would also provide Operating Models for testing candidate Management Procedures for this resource (i.e. in the planned Management Strategy Evaluation, or MSE, process).

However a concern with that model, and indeed with the models used currently by ICCAT that assume separate stocks, is that they are fit to catch-at-age data derived using the rather coarse approach of cohort-slicing, which might be introducing considerable bias into the results. Given the increase in computing power that has become available over the most recent decade, current custom in such circumstances is rather to fit the assessment model directly to the basic catch-at-length data available, usually under the assumption of invariance of the distributions of length-at-age of the fish over time, which considerably simplifies the analysis. Rather than utilise VPA, which makes the assumption (the more poorly justified in cases where cohort-slicing is used to provide the catch-at-age values input) that the resultant catch-at-age values are error free, statistical models (Statistical Catch at Age, SCAA for age data or Statistical Catch at Length, SCAL when the length data are input directly) are used to formulate the likelihoods maximised in the model fitting process.

Thus the first step required in addressing the longer term objective for this work is the development of SCAL assessments for the western and eastern (plus Mediterranean) components of the fishery treated as separate stocks as in current ICCAT assessments. In this paper, initial results are presented by way of comparing one of the 2012 ICCAT SCRS VPA assessments (the Continuity Run) for the western stock of North Atlantic Bluefin tuna (NABFT) with first two versions of a SCAA approach which also uses the same cohort-sliced catch-at-age inputs, and then a SCAL method which fits instead to catch-at-length distributions. This follows a similar exercise carried out for the eastern (plus Mediterranean) stock (Butterworth and Rademeyer, 2012).

# 2. Data and Methods

The data utilised are documented in Appendix A. The choice of historic catch estimates that has been made is the same as used for the VPA continuity run from the 2012 ICCAT assessment meeting (ICCAT, 2012).

The details of the SCAA and SCAL methodologies are provided in Appendix B, which also lists the values input for certain parameters for the associated models. Both SCAA and SCAL applications fit to the data series for both CPUE and age (or length) information in manners as similar as possible to those used in the VPA continuity run ICCAT (2012).

Some of the specific choices made within these methodologies for the analyses presented here are simpler than may eventually prove optimal, in line with the initial nature of these analyses. To mention some of the more important, which will be subject to subsequent sensitivity investigations:

- The stock-recruitment form fit is of the Beverton-Holt type, but for practical purposes reflects expected recruitment as independent of spawning biomass through fixing steepness h = 0.98 for the baseline runs. The standard deviation of the residuals of log recruitment about this relationship is assumed to have the value  $\sigma_{\rm R} = 0.6$ . Thus far, sensitivities to this have been run for one of the SCAA assessments as detailed below.
- To assist stabilise estimation, the resource is assumed to be at its deterministic pre-exploitation equilibrium with the corresponding age structure at the start of the period considered (1950).
- Though one change in selectivity at age/length over time has been introduced to improve fits to the purse seine catch-at-age/length data, further changes might improve the fit further.
- A single variance for all CPUE series has been used, as is understood to have been the case for the VPA continuity run.
- Catch-at-age and catch-at-length contributions to the overall log-likelihood are downweighted by multiplicative factors of 0.1 and 0.05 respectively. This is necessary to take account of the non-independence of such data (fish of similar age or size tend to group together, so that the tuna caught in, for example, the same longline set do not constitute independent samples). However the magnitudes

specified for these weights are somewhat arbitrary; the ratio of the length to the age weighting is based on the fact that there are about twice as many length classes as age classes considered in the fitting process.

For the SCAL assessment, the distributions of length at age are assumed to be normal with CVs of 20% about their means (**Figure 1** shows the growth curve and the distributions of length-at-age used for the SCAL run). Note that either because the data were not available or for related reasons, this "SCAL" in fact continued to fit to catch-at-age rather than catch-at-length data for a few indices.

## 3. Results

Two alternatives have been considered for the SCAA implementations: "SCAA-FixedS" for which the abundance indices' selectivities are fixed to those estimated in the VPA continuity run and the selectivity of each of the fleet for the plus group is taken to be the same as that of the immediately lower age (as is done for the VPA continuity run), and "SCAA-EstS" for which all the selectivities are freely estimated (see **Table B1**). For SCAL, the selectivities are freely estimated.

A brief summary of key results for these three models is provided in **Table 1**, which includes values for the contributions of various data sources and penalties to the (penalised) log likelihood, as well as estimates of current depletion expressed in terms of spawning biomass. The brevity of presentation is deliberate at this stage; given the initial nature of these results, it would not be appropriate to focus on more than broad features at this time.

Figure 2 compares the spawning biomass time series estimated for the three model implementations, and also shows the results from the VPA continuity run of ICCAT (2012).

Figure 3 compares recruitment time series, while Figure 4 plots the stock-recruitment relationships and stock-recruitment residuals.

The fits to the various CPUE indices in Figure 5 are not "unreasonable", given the evident noise in these data.

**Figure 6** shows the estimated selectivity at age vectors for the five fleets for the two SCAA runs, together with their fits (which are generally good) to the age distribution proportions averaged over years and in terms of residuals (bubble plots). The fits to the distributions of proportions of catch at length averaged over years under the SCAL model are similarly reasonable (**Figure 7**).

Similarly, **Figures 8, 9 and 10** show the estimated selectivities and fits to the age/length distribution proportions for the abundance indices for the SCAA-FixedS, SCAA-EstS and SCAL respectively.

Figure 11 shows spawning biomass trajectories and stock-recruit relationships for SCAA\_EstS for different fixed values for steepness h.

#### 4. Discussion

For the two SCAA fits, estimating selectivity ("SCAA-EstS") provides the better fit in terms in the negative log likelihood (Table 1), arising particularly from better fits to the CAA data which in turn reflect greater doming in the selectivities (Fig. 6) and hence higher biomasses (Fig. 2).

The SCAL assessment is closer to that of SCAA-EstS, but does not reflect the increase in spawning biomass over the more recent years that SCAA-EstS does. However prior to 1970, the SCAL results look more like those for SCAA-FixedS, with a near discontinuity at 1970 (Fig. 2). This is a consequence of the very poor fit to the stock-recruitment "data" (Fig. 4), which in turn allows for unrealistically large recruitments over a short period in the early 1960s which cause this near-discontinuity. It is important to note that, consistent with the VPA continuity run, there are no abundance indices or age/length composition information prior to 1970 input to these SCAA and SCAL assessments, so that those early estimates of abundance are being driven effectively entirely by the stock-recruitment relationship assumed and the implicit associated assumption of its stationarity.

Some initial sensitivities have been run for SCAA-EstS, focusing on lower values of steepness h which are fixed on input. As h is decreased, the fit improves (Table 2), the spawning biomass becomes lower and does not reflect a recent increase, and the Beverton-Holt curve provides a better reflection of the underlying form assumed (Fig. 11).

There are many assumptions and value choices that have had to be made for these initial SCAA and SCAL assessment runs. Feedback from meeting participants on these, and on how they might be improved/rendered more reliable would be appreciated.

#### Problems with the data when moving to SCAL

A number of problems have arisen in the process of converting from a SCAA to SCAL assessment formulation:

- Age 0 is not included in VPA and SCAA but this becomes difficult in SCAL
- The first two CAN CPUE series differ only by age groups (with 2 ages overlapping) this cannot be effected in SCAL this is why the SCAL fits to CAA rather than to CAL for these two series, which are not distinguished in the length information as provided
- JLL GOM: the CAA data are not properly described, so that it was not possible to determine an equivalent CAL hence CAA were used in the SCAL for this series
- US PLL GOM: CAL grouped by length groups, but not consistent and very large grouping hence used CAA rather than CAL in the SCAL assessment.

*Note:* The "Larval zero inflated" index has been treated as an index of spawning biomass, with selectivity not estimated as in VPA.

## 5. Conclusions

The broad features of these results are rather similar to those found in the corresponding analysis for the eastern Atlantic Bluefin tuna (Butterworth and Rademeyer, 2012). Compared to the current ICCAT VPA, biomasses are higher because the data prefer a more domed shape for the selectivity functions, and for the more recent years the SCAL suggests a more stable abundance compared to the increase suggested by the SCAA. Clearly more examination of the consequences of different assumptions for the stock-recruitment relationship is needed in further work. Immediately however, the opportunity provided by the meeting at which this paper is to be presented should be taken to sort out some remaining queries about the catch-at-length data.

# Acknowledgements

We thank Laurie Kell for assistance in providing the data used to us. Shannon Cass-Calay and Clay Porch kindly assisted in clarifying some questions about these data...

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	SCAA- FixedS	SCAA-EstS	SCAL
-lnL:overall	-3566.3	-3628.6	-1176.6
-lnL: CPUE	25.4	31.4	20.7
-lnL: fleet CAA	-2546.2	-2567.1	-
-lnL: fleet CAL	-	-	-738.0
-lnL: index CAA	-1079.0	-1121.1	-279.1
-lnL: index CAL	-	-	-219.0
-lnL: RecRes	33.4	28.1	30.3
Sel smoothing penalty	-	-	8.5
$K^{sp}$	82956	126945	79614
$B^{sp}_{2011}$	20379	48308	38456
$B^{sp}_{2011}/K^{sp}$	0.25	0.38	0.48

**Table 1**: Results for the two SCAA and the SCAL assessments of this paper with steepness h fixed at 0.98. Biomass units are mt, and  $K^{sp}$  refers to the pre-exploitation equilibrium spawning biomass. Note that the value for the overall negative log likelihood for the two SCAA assessments are comparable to each other, but not to that for the SCAL assessment.

**Table 2**: Results for SCAA-EstS for different fixed values of steepness h. Biomass units are mt, and  $K^{sp}$  refers to the pre-exploitation equilibrium spawning biomass.

	<i>h</i> =0.98	<i>h</i> =0.7	<i>h</i> =0.4
-lnL:overall	-3628.6	-3636.4	-3646.6
-lnL: CPUE	31.4	27.5	27.7
-lnL: fleet CAA	-2567.1	-2567.1	-2568.4
-lnL: index CAA	-1121.1	-1121.1	-1120.9
-lnL: RecRes	28.1	24.3	14.9
$K^{sp}$	126945	140240	205512
$B^{sp}_{2011}$	48308	33434	29484
$B^{sp}_{2011}/K^{sp}$	0.38	0.24	0.14

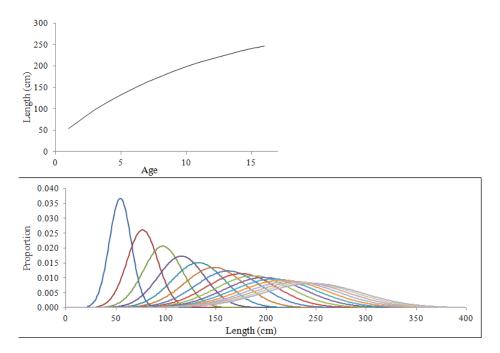
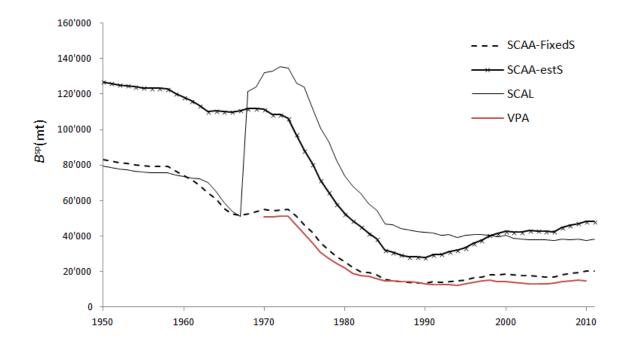


Figure 1: Growth curve and associated length-at-age distributions assumed.



**Figure 2**: Spawning biomass trajectories. The notation convention used here and below is that VPA refers to Continuation Run from ICCAT (2012), SCAA\_FixedS is Statistical Catch at Age with fixed selectivity for the abundance indices and commercial plus group, SCAA\_EstS estimates all the selectivities, and SCAL is Statistical Catch at Length with all selectivities estimated. The SCAA and SCAL assessments fix steepness h at 0.98.

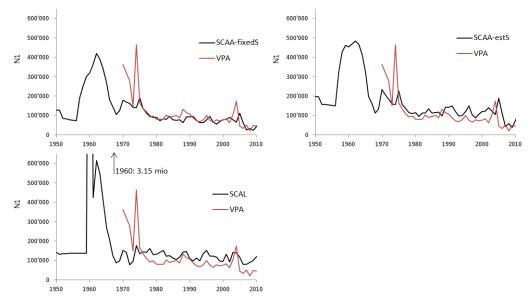


Figure 3: Recruitment (number of 1-year-olds,  $N_1$ ) trajectories for the four assessments.

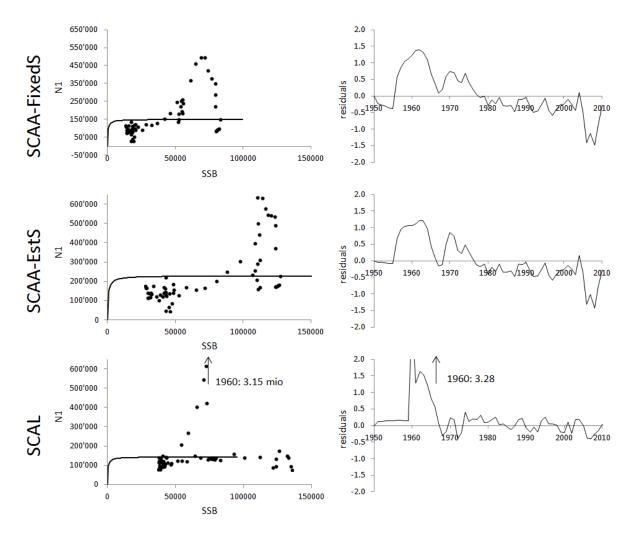
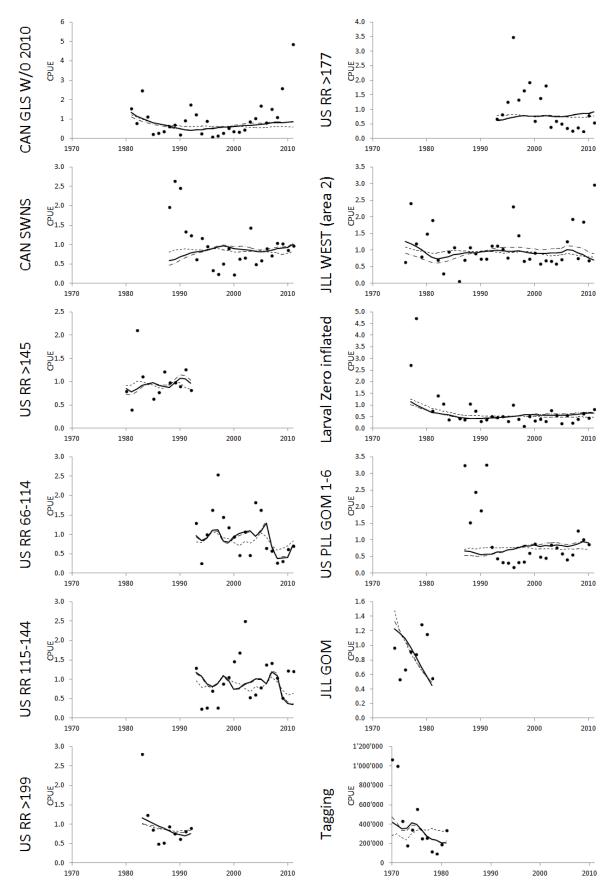
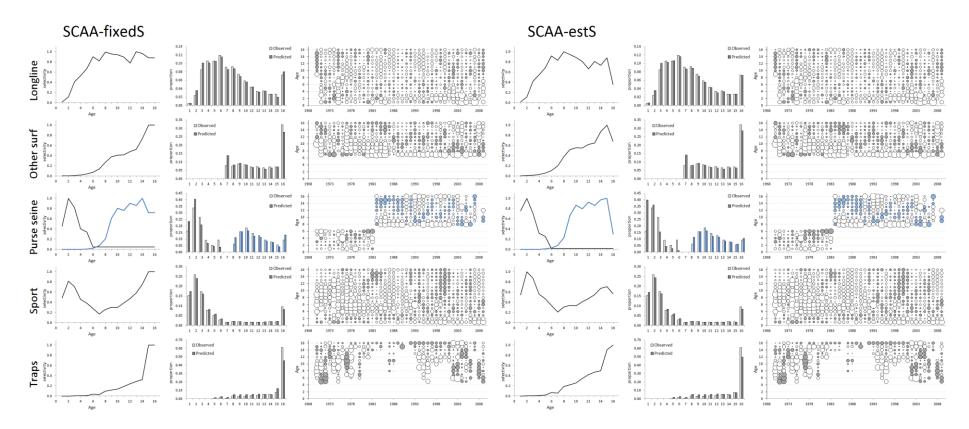


Figure 4: Stock-recruitment relationships (left-hand column) and time series of stock-recruitment residuals for the three new assessments. Spawning stock biomass (SSB) is in mt.



**Figure 5**: Fits of the new assessment models to the various CPUE series (full line=SCAA\_FixedS, dashed=dot=SCAA\_EstS and dashed=SCAL)



**Figure 6**: Estimated selectivities-at-age, fits to the CAA data (as averages over all the years with data available) and bubble plots of the CAA standardised residuals for the five fleets for the **SCAA\_FixedS** (three left-hand columns) and **SCAA\_EstS** (three right-hand columns) assessments. Here and below, in the bubble plots, the size (area) of the bubble is proportional to the magnitude of the corresponding standardised residual. For positive residuals the bubbles are grey, whereas for negative residuals the bubbles are white. Results for the second selectivity period for the purse seine are shown in blue in the plots.

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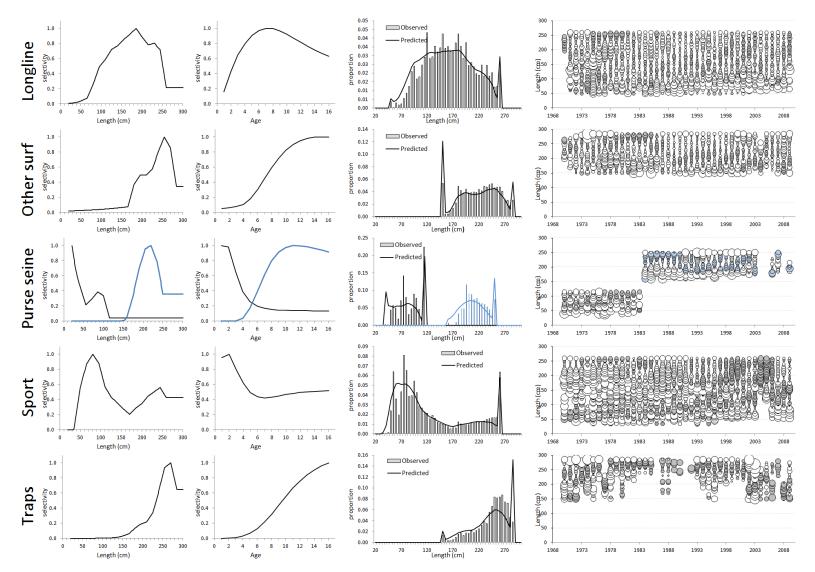
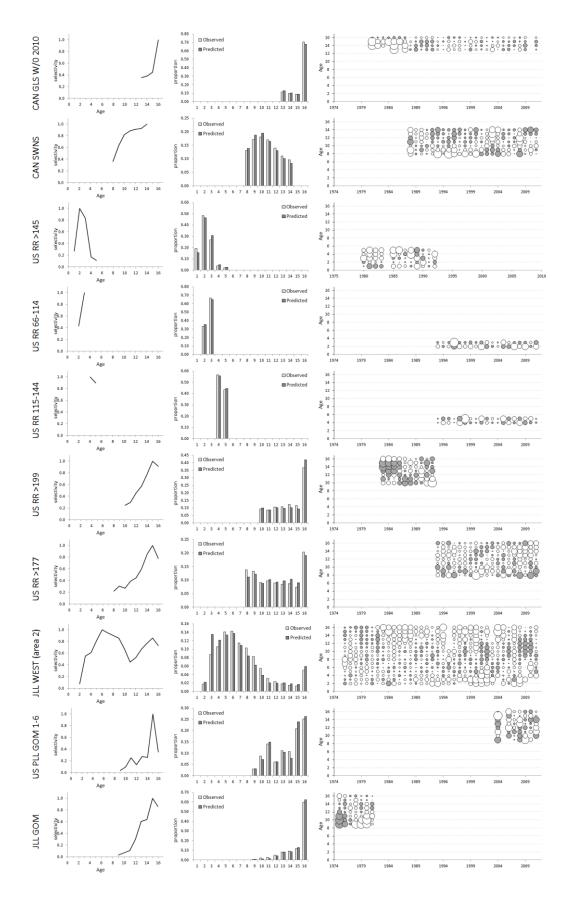
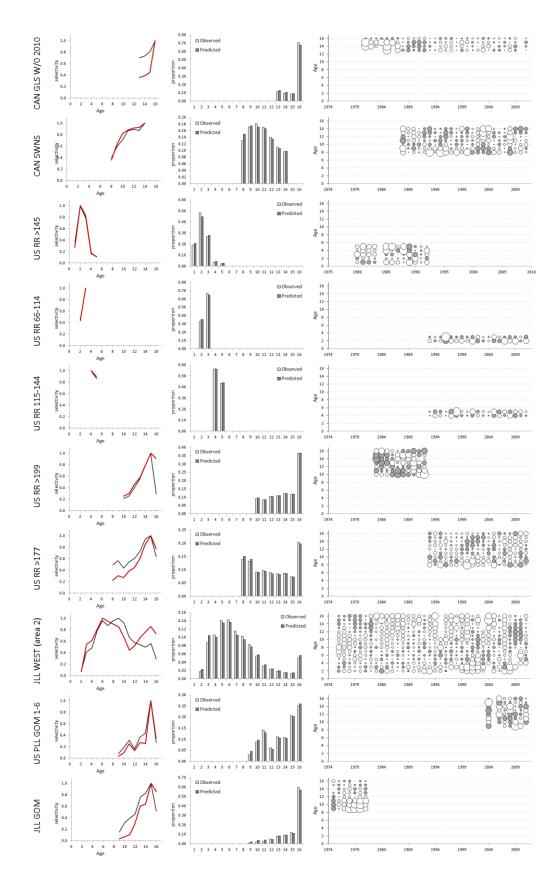


Figure 7: Estimated selectivities-at-length, the effective equivalent selectivities-at-age, fit to the CAL data (as average over all the years with data available), and bubble plots of the CAL standardised residuals for the associated fisheries for the SCAL assessment.

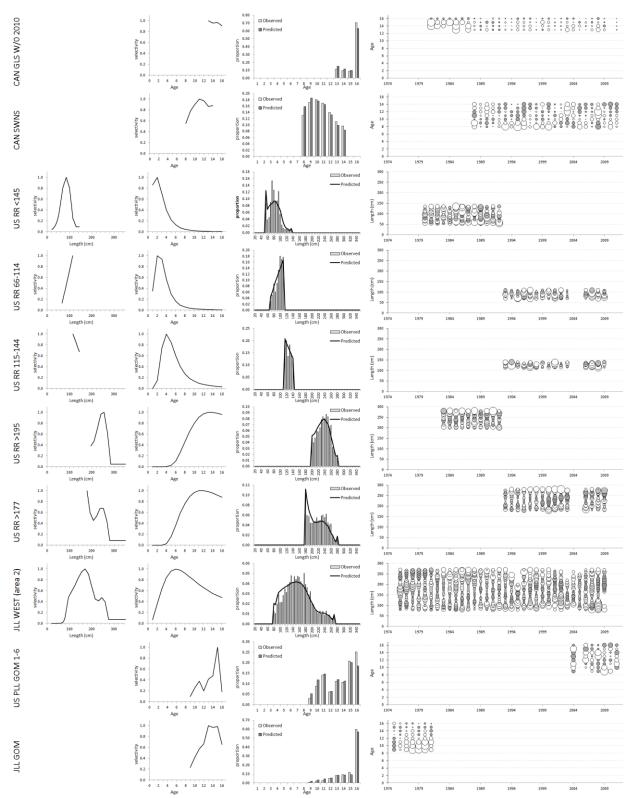


**Figure 8**: Estimated selectivities-at-age, fit to the CAA data (as average over all the years with data available), and bubble plots of the CAA standardised residuals for the catches associated with indices of abundance for the **SCAA\_FixedS assessment**.

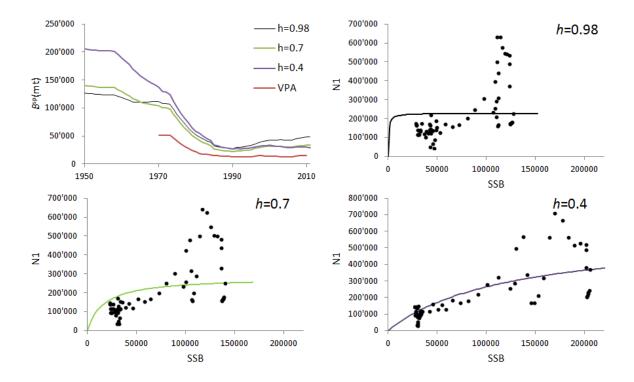


**Figure 9**: Estimated selectivities-at-age, fit to the CAA data (as average over all the years with data available), and bubble plots of the CAA standardised residuals for the catches associated with indices of abundance for the **SCAA\_EstS assessment**. The VPA selectivities-at-age are shown in red.

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**Figure 10**: Estimated selectivities-at-length (where applicable), the effective equivalent selectivities-at-age, fit to the CAA/CAL data (as average over all the years with data available), and bubble plots of the CAA/CAL standardised residuals for the catches associated with indices of abundance for the **SCAL assessment**. Note that for CAN GLS W/O 2010, CAN SWNS, US PLL GOM 1-6 and JLL GOM, the model is fit to CAA data rather than CAL data.



**Figure 11**: Spawning biomass trajectories and stock-recruit relationships for SCAA\_EstS with different fixed values for steepness *h*.

# Appendix A: Data

The data listed below are from ICCAT (2012) for Continuity Run, or as kindly provided by Laurie Kell of the ICCAT Secretariat.

71 1 1	44	$C \rightarrow 1$	•	
I able	AI:	Catches	ın	mt.

	Longline	Other	Purse seine	Sport	Traps
1950	0.0	468.0	1.0	192.0	346.0
1951	0.0	270.0	100.0	235.0	491.0
1952	7.0	334.0	0.0	153.0	135.0
1952	1.0	198.0	0.0	119.0	766.0
1955	0.0	130.0	55.0	107.0	531.0
				27.0	
1955	5.0	135.0	0.0		377.0
1956	0.0	47.0	0.0	19.0	181.0
1957	46.0	58.0	0.0	38.0	404.0
1958	72.0	61.0	138.0	67.0	869.0
1959	283.0	125.0	781.0	79.0	302.0
1960	340.0	119.0	277.0	60.0	236.0
1961	373.0	78.0	903.0	108.0	158.0
1962	1351.0	44.0	3768.0	412.0	224.0
1963	6558.0	22.0	5770.0	1185.0	303.0
1964	12410.0	24.0	5150.0	608.0	479.0
1965	9469.0	58.0	3331.0	1066.0	247.0
1966	3085.0	47.0	1006.0	3731.0	221.0
1967	3126.0	58.0	2082.0	361.0	313.0
1968	1665.0	63.0	687.0	635.0	126.0
1969	593.0	32.0	1118.0	1038.0	231.0
1909	268.0	83.0	4288.0	644.0	183.0
1970	1390.0	182.0	3769.0	1144.0	106.0
1971	339.0	182.0		1354.0	58.0
			2011.0		
1973	1127.0	115.0	1656.0	816.0	157.0
1974	946.0	256.0	960.0	2955.0	276.0
1975	1562.4	24.0	2320.0	1022.0	144.0
1976	3066.0	311.0	1582.0	752.0	172.0
1977	3753.4	194.0	1502.0	874.0	372.0
1978	3219.1	191.0	1230.0	904.0	221.0
1979	3691.0	196.0	1381.0	956.0	31.0
1980	3972.5	131.0	758.0	893.0	47.0
1981	3879.0	133.0	910.0	808.0	41.0
1982	363.0	323.0	232.0	459.0	68.0
1983	829.0	514.0	384.0	808.0	7.0
1984	832.0	377.0	401.0	676.0	3.0
1985	1245.0	293.0	377.0	750.0	20.0
1986	1278.0	166.2	360.0	518.0	0.0
1987	1237.0	156.3	367.0	726.0	17.0
1988	1475.3	425.0	383.0	601.0	14.0
1989	817.6	769.0	385.0	786.0	1.0
1990	854.1	536.0	384.0	1004.0	2.0
1991	1023.3	578.0	237.0	1083.0	0.0
1991	885.2	509.3	300.0	586.3	1.0
1992	784.0	406.0	295.0	854.0	29.0
1993			301.0		
	622.0	307.2		804.0	79.0 72.0
1995	604.1	384.0	249.0	1114.0	72.0
1996	713.6	436.0	245.0	1029.0	90.0
1997	537.0	293.0	250.0	1195.3	59.0
1998	887.0	342.0	249.0	1111.0	68.0
1999	1074.5	281.0	248.0	1123.8	44.5
2000	1079.5	284.4	275.2	1119.7	16.1
2001	714.7	202.3	195.9	1655.7	15.8
2002	940.5	107.6	207.7	2035.1	28.1
2003	418.3	139.6	265.4	1398.3	84.0
2004	824.8	97.1	31.8	1138.8	32.0
2005	556.2	89.1	178.3	924.5	8.4
2006	714.4	85.3	3.6	1005.1	3.0
2007	520.3	63.1	27.9	1022.9	3.6
2008	764.7	81.9	0.0	1129.9	23.0
2009	573.5	120.7	11.4	1250.6	23.5
2010 2011	703.1 924.4	106.7 147.8	0.0 0.0	1008.9 887.3	38.8 26.3

 Table A2: Commercial catches-at-age used in the SCAA.

Longline					-			~								
1970	1 0	2	3	4	5	6	7	8	9 12	10 182	11 274	12 182	13 261	14 199	15 170	16 80
1970	13	246	31	133	90	275	844	1551	1133	710	690	546	399	232	114	244
	29	240 54								206						
1972			58	17	143	55	44	103	358		51	72	74	66	26	119
1973	88	443	564	476	691	260	227	594	1117	696	177	287	313	271	90	249
1974	109	2668	2794	1629	518	102	471	628	542	517	460	439	407	259	270	342
1975	2	37	54	76	190	21	17	166	347	633	1180	937	881	844	864	1891
1976	184	1236	5772	2497	2630	1032	183	110	649	599	364	711	1538	1910	1750	4371
1977	59	423	5315	9521	2292	1826	1748	405	157	245	213	339	480	954	1387	6061
1978	81	192	1427	2785	2513	2673	991	394	316	174	176	324	464	471	928	6342
1979	47	340	1441	1237	685	1572	2568	1750	521	305	302	399	664	930	1129	5086
1980	135	480	1763	2676	1229	1329	2270	4609	3088	774	491	460	517	602	990	6944
1981	357	1462	8455	3354	4371	3051	2529	2055	1690	1016	456	688	604	573	480	5400
1982	82	129	178	244	160	380	399	302	155	216	150	130	146	109	58	181
1983	6	120	2151	577	569	823	602	994	595	428	257	154	161	83	65	167
1984	56	1523	602	1189	1808	1487	781	358	327	305	204	142	117	189	85	278
1985	35	128	6680	2044	3469	3697	1742	590	363	253	173	195	262	155	341	490
1986	4	133	1228	2236	1390	1119	1062	560	363	302	177	132	272	219	286	1474
1987	29	350	1547	2310	3131	3641	1171	1170	786	677	217	152	135	109	103	417
1987	85	283	3580	3747		2881	2824	1351	827	431	228	127	191			452
					3165									144	144	
1989	32	203	272	1062	887	1133	1022	1112	668	334	194	189	186	141	83	315
1990	36	103	834	783	1322	1410	838	735	670	502	301	186	191	111	99	372
1991	37	156	593	1334	1478	1412	1477	1079	475	371	276	294	200	153	146	438
1992	54	43	451	931	911	1273	782	1116	942	339	254	177	236	187	120	315
1993	19	50	666	1300	1165	1428	1294	650	609	545	251	122	130	71	45	219
1994	25	75	322	1566	1863	1685	601	592	530	310	157	115	80	48	37	157
1995	106	59	286	1093	689	2680	1086	250	304	188	70	58	81	46	35	125
1996	54	182	565	1356	1108	767	997	866	297	192	237	196	177	124	106	227
1997	33	8	186	601	739	755	967	670	646	230	120	62	94	69	45	113
1998	24	8	236	1059	532	1065	686	828	980	1253	391	199	108	150	35	200
1999	29	32	129	799	1138	752	670	935	652	544	494	517	538	297	199	417
2000	22	29	404	783	3293	2630	1358	1141	534	282	163	152	176	103	82	206
2001	34	33	57	120	155	344	963	1021	360	399	276	338	215	126	125	202
2002	12	34	31	90	79	237	466	1509	1201	1028	562	321	277	83	153	224
2002	2	24	17	325	262	461	185	332	185	217	222	131	189	89	163	171
			7													
2004	0	11		349	1445	2507	1203	768	344	367	226	183	211	140	123	207
2005	1	51	592	622	711	548	569	791	452	258	378	237	188	113	158	163
2006	4	186	355	690	468	1420	755	743	1054	840	478	350	235	150	331	377
2007	0	22	2527	2124	851	899	507	379	230	133	246	176	123	92	105	158
2008	0	32	150	518	782	457	923	997	714	573	512	298	261	110	201	230
2008	2	32 0	150 12	518 33	782 28	457 260	923 45	997 338	714 390	573 383	512 391	298 188	261 135	120	201 184	230
2009	2	0	12	33	28	260	45	338	390	383	391	188	135	120	184	261
2009 Other surf	2	0	12	33 4	28	260 6	45 7	338 8	390 9	383 10	391 11	188 12	135 13	120 14	184 15	261
2009 Other surf 1970	2 1 0	0 2 0	12 3 0	33 4 0	28 5 0	260 6 0	45 7 0	338 8 0	390 9 0	383 10 1	391 11 7	188 12 62	135 13 20	120 14 19	184 15 9	261 16 169
2009 Other surf 1970 1971	2 1 0 0	0 2 0 0	12 3 0 0	33 4 0 0	28 5 0 0	260 6 0 0	45 7 0 8	338 8	390 9 0 6	383 10 1 8	391 11 7 8	188 12	135 13	120 14	184 15 9 161	261 16 169 226
2009 Other surf 1970 1971 1972	2 1 0 0 4	0 2 0	12 3 0	33 4 0	28 5 0	260 6 0	45 7 0	338 8 0	390 9 0	383 10 1	391 11 7	188 12 62	135 13 20	120 14 19	184 15 9	261 16 169 226 183
2009 Other surf 1970 1971	2 1 0 0	0 2 0 0	12 3 0 0	33 4 0 0	28 5 0 0	260 6 0 0	45 7 0 8	338 8 0 9	390 9 0 6	383 10 1 8	391 11 7 8	188 12 62 41	135 13 20 99	120 14 19 127	184 15 9 161	261 16 169 226
2009 Other surf 1970 1971 1972	2 1 0 0 4	0 2 0 0 8	12 3 0 0 6	33 4 0 0 4	28 5 0 0 18	260 6 0 0 15	45 7 0 8 9	338 8 0 9 11	390 9 0 6 43	383 10 1 8 34	391 11 7 8 30	188 12 62 41 66	135 13 20 99 100	120 14 19 127 183	184 15 9 161 109	261 16 169 226 183
2009 Other surf 1970 1971 1972 1973	2 1 0 4 3	0 2 0 0 8 14	12 3 0 0 6 11	33 4 0 0 4 34	28 5 0 0 18 26	260 6 0 15 17	45 7 0 8 9 6	338 8 0 9 11 20	390 9 0 6 43 45	383 10 1 8 34 44	391 11 7 8 30 14	188 12 62 41 66 15	135 13 20 99 100 28	120 14 19 127 183 33	184 15 9 161 109 39	261 16 169 226 183 204
2009 <u>Other surf</u> 1970 1971 1972 1973 1974	2 1 0 4 3 33	0 2 0 0 8 14 214	12 3 0 0 6 11 39	33 4 0 4 34 64	28 5 0 18 26 33	260 6 0 15 17 4	45 7 0 8 9 6 20	338 8 0 9 11 20 36	390 9 0 6 43 45 25	383 10 1 8 34 44 36	391 11 7 8 30 14 28	188           12           62           41           66           15           40	135 13 20 99 100 28 88	120 14 19 127 183 33 139	184 15 9 161 109 39 185	261 16 169 226 183 204 351
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976	2 1 0 4 3 33 0 4	0 2 0 0 8 14 214 1 34	12 3 0 6 11 39 1 84	33 4 0 0 4 34 64 1 62	28 5 0 0 18 26 33 4 4 33	260 6 0 15 17 4 0 12	45 7 0 8 9 6 20 0 10	338 8 0 9 11 20 36 2 6	390 9 0 6 43 45 25 5 23	383 10 1 8 34 44 36 9 42	391 11 7 8 30 14 28 17 48	188           12           62           41           66           15           40           13           56	135 13 20 99 100 28 88 13 97	120 14 19 127 183 33 139 11 102	184 15 9 161 109 39 185 12 134	261 16 169 226 183 204 351 28 384
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976 1977	2 1 0 4 3 33 0 4 27	0 2 0 8 14 214 1 34 17	12 3 0 6 11 39 1 84 37	33 4 0 0 4 34 64 1 62 36	28 5 0 0 18 26 33 4 43 10	260 6 0 15 17 4 0 12 8	45 7 0 8 9 6 20 0 10 5	338 8 0 9 11 20 36 2 6 2	390 9 0 6 43 45 25 5 23 1	383 10 1 8 34 44 36 9 42 2	391 11 7 8 30 14 28 17 48 3	188           12           62           41           66           15           40           13           56           4	135 13 20 99 100 28 88 13 97 7	120 14 19 127 183 33 139 11 102 18	184 15 9 161 109 39 185 12 134 31	261 16 169 226 183 204 351 28 384 448
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978	2 1 0 4 3 3 3 0 4 27 5	0 2 0 0 8 14 214 1 34 17 8	12 3 0 6 11 39 1 84 37 16	33 4 0 0 4 34 64 1 62 36 27	28 5 0 0 18 26 33 4 43 10 24	260 6 0 15 17 4 0 12 8 18	45 7 0 8 9 6 20 0 0 10 5 10	338 8 0 9 11 20 36 2 6 2 6 2 5	390 9 0 6 43 45 25 5 23 1 2	383 10 1 8 34 44 36 9 42 2 6	391 11 7 8 30 14 28 17 48 3 5	188           12           62           41           66           15           40           13           56           4           15	135 13 20 99 100 28 88 13 97 7 48	120 14 19 127 183 33 139 11 102 18 85	184 15 9 161 109 39 185 12 134 31 118	261 16 169 226 183 204 351 28 384 448 272
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	2 1 0 4 3 3 3 0 4 27 5 0	0 2 0 0 8 14 214 1 34 17 8 2	12 3 0 6 11 39 1 84 37 16 6	33 4 0 4 34 64 1 62 36 27 13	28 5 0 0 18 26 33 4 43 10 24 7	260 6 0 15 17 4 0 12 8 18 18 14	45 7 0 8 9 6 20 0 10 5 10 14	338 8 0 9 11 20 36 2 6 2 5 12	390 9 0 6 43 45 25 5 23 1 2 6	383 10 1 8 34 44 36 9 42 2 6 11	391 11 7 8 30 14 28 17 48 3 5 4	188           12           62           41           66           15           40           13           56           4           15           14	135 13 20 99 100 28 88 13 97 7 48 31	120 14 19 127 183 33 139 11 102 18 85 45	184 15 9 161 109 39 185 12 134 31 118 78	261 16 169 226 183 204 351 28 384 448 272 427
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	2 1 0 4 3 3 3 0 4 27 5 0 0	0 2 0 0 8 14 214 1 34 17 8 2 1	12 3 0 6 11 39 1 84 37 16 6 6	33           4           0           4           34           64           1           62           36           27           13           5	28 5 0 18 26 33 4 43 10 24 7 3	260 6 0 15 17 4 0 12 8 18 18 14 4	45 7 0 8 9 6 20 0 10 5 10 14 6	338 8 0 9 11 20 36 2 6 2 5 12 13	390 9 0 6 43 45 25 5 23 1 2 6 13	383 10 1 8 34 44 36 9 42 2 6 11 11	391 11 7 8 30 14 28 17 48 3 5 4 7	188           12           62           41           66           15           40           13           56           4           15           14           9	135 13 20 99 100 28 88 13 97 7 48 31 12	120 14 19 127 183 33 139 11 102 18 85 45 12	184 15 9 161 109 39 185 12 134 31 118 78 19	261 16 169 226 183 204 351 28 384 448 272 427 306
2009 <u>Other surf</u> 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981	2 1 0 4 3 3 3 0 4 27 5 0 0 1	0 2 0 0 8 14 214 1 34 17 8 2 1 11	12 3 0 6 11 39 1 84 37 16 6 6 40	33 4 0 0 4 34 64 1 62 36 27 13 5 20	28 5 0 18 26 33 4 43 10 24 7 3 19	260 6 0 15 17 4 0 12 8 18 14 4 4 16	45 7 0 8 9 6 20 0 10 5 10 14 6 13	338 8 0 9 11 20 36 2 6 2 5 12 13 11	390 9 0 6 43 45 25 5 23 1 2 6 13 8	383 10 1 8 34 44 36 9 42 2 6 11 11 15	391 11 7 8 30 14 28 17 48 3 5 4 7 11	188           12           62           41           66           15           40           13           56           4           15           14           9           10	135           13           20           99           100           28           88           13           97           7           48           31           12           10	120 14 19 127 183 33 139 11 102 18 85 45 12 22	184 15 9 161 109 39 185 12 134 31 118 78 19 13	261 16 169 226 183 204 351 28 384 448 272 427 306 284
2009 <u>Other surf</u> 1970 1971 1971 1972 1973 1975 1976 1977 1978 1979 1980 1981 1982	2 1 0 4 3 3 3 0 4 27 5 0 0 1 0	0 2 0 0 8 14 214 1 34 17 8 2 1 11 0	12 3 0 0 6 11 39 1 84 37 16 6 6 40 0	33 4 0 0 4 34 64 1 62 36 27 13 5 20 0	28 5 0 18 26 33 4 43 10 24 7 3 19 0	260 6 0 15 17 4 0 12 8 18 14 4 16 0	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4	390 9 0 6 43 45 25 5 23 1 2 6 13 8 13	383 10 1 8 34 44 36 9 42 2 6 11 11 15 17	391 11 7 8 30 14 28 17 48 3 5 4 7 11 32	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53	135           13           20           99           100           28           88           13           97           7           48           31           12           10           30	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27	184 15 9 161 109 39 185 12 134 31 118 78 19 13 41	261 16 169 226 183 204 351 28 384 448 272 427 306 284 698
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983	2 1 0 0 4 3 3 0 4 27 5 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0	12 3 0 6 11 39 1 84 37 16 6 6 40 0 0	33 4 0 4 34 64 1 62 36 27 13 5 20 0 0	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9	390 9 0 6 43 45 25 5 23 1 2 6 13 8 13 54	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52	391 11 7 8 30 14 28 17 48 3 5 4 7 11 32 48	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53           48	135 13 20 99 100 28 88 13 97 7 48 31 12 10 30 43	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120	184           15         9           161         109           39         185           12         134           31         118           78         19           13         41           62	261 16 169 226 183 204 351 28 384 448 272 427 306 284 698 1052
2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1979 1980 1981 1982 1983 1984	2 1 0 4 3 3 3 0 4 27 5 0 0 1 0 0 0 1 0 0 0	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0	33 4 0 4 34 64 1 62 36 27 13 5 20 0 0 0 0	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15	390 9 0 6 43 45 25 5 23 1 2 6 13 8 13 54 9	383 10 1 8 34 44 36 9 42 2 6 11 11 15 17 52 18	391 111 7 8 300 14 28 17 48 3 5 4 7 111 32 48 55	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53           48           40	135 13 20 99 100 28 88 13 97 7 48 31 12 10 30 43 41	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120 71	184           15           9           161           109           39           185           12           134           31           118           78           19           13           41           62           52	261 16 169 226 183 204 351 28 384 448 272 427 306 284 698 1052 709
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985	2 1 0 4 3 3 3 0 4 27 5 0 0 1 0 0 0 0 0 0 0	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0	12 3 0 6 11 39 1 84 37 16 6 6 40 0 0 0 0 0 0	33 4 0 4 34 64 1 62 36 27 13 5 20 0 0 0 0 0 0 0	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0 0	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17	390 9 0 6 43 45 25 5 23 1 2 6 13 8 13 54 9 14	383 10 1 8 34 44 36 9 42 2 6 11 11 15 17 52 18 33	391 11 7 8 30 14 28 17 48 3 5 4 7 11 32 48 55 29	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53           48           40           63	135           13           20           99           100           28           88           13           97           7           48           31           12           10           30           43           41           71	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120 71 105	184           15           9           161           109           39           185           12           134           31           118           78           19           13           41           62           52           113	261 16 169 226 183 204 351 28 384 448 272 427 306 284 698 1052 709 517
2009 20ther surf 1970 1971 1971 1972 1973 1975 1976 1977 1977 1978 1977 1978 1978 1980 1981 1982 1983 1984 1985 1986	2 1 0 4 3 3 3 0 4 27 5 0 0 1 0 0 0 0 0 0 0 0 0	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 0	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 0 0 0	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0 0 0 0 0	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 3 3	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3	390 9 0 6 43 45 25 5 23 1 2 6 13 8 13 54 9 14 6	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           18           33           7	391 11 7 8 30 14 28 17 48 3 5 4 7 11 32 48 55 29 20	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53           48           40           63           40	135           13           20           99           100           28           88           13           97           7           48           31           12           100           30           43           41           71           62	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120 71 105 100	184           15           9           161           109           39           185           12           134           31           118           78           19           13           41           62           52           113           92	261 16 169 226 183 204 351 28 384 448 272 427 306 698 1052 709 517 273
2009 Dther surf 1970 1971 1971 1972 1973 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1985 1985	$\begin{array}{c} 2 \\ \hline 1 \\ 0 \\ 4 \\ 3 \\ 33 \\ 0 \\ 4 \\ 27 \\ 5 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 0 1	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 5	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0           0           13	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0 0 0 0 27	260 6 0 15 17 4 0 12 8 18 14 16 0 2 0 3 0 32	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 3 27	338 8 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41	390 9 0 6 43 45 25 5 23 1 2 6 13 8 13 54 9 14 6 33	383           10           1           8           34           44           36           9           42           6           11           15           17           52           18           33           7           42	391 11 7 8 300 14 28 17 48 3 5 4 7 111 32 48 55 29 20 28	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53           48           40           63           40           33	135           13           20           99           100           28           88           13           97           48           31           12           10           30           43           41           71           62           48	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120 71 105 100 57	184           15           9           161           109           39           185           12           134           118           78           19           13           41           62           52           113           92           74	261 16 169 226 183 204 351 28 384 448 272 427 306 284 698 1052 709 517 273 239
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988	$\begin{array}{c} 2 \\ \hline 1 \\ 0 \\ 4 \\ 3 \\ 33 \\ 0 \\ 4 \\ 27 \\ 5 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 0 0 1 1117	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 5 185	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0 0 0 0 0 27 9	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 32 33	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 3 3 27 73	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113	390 9 0 6 43 45 25 5 23 1 2 6 13 8 13 54 9 14 6 33 91	383 10 1 8 34 44 36 9 42 2 6 11 11 15 17 52 18 33 7 42 192	391 11 7 8 30 14 28 37 48 3 5 4 7 11 32 48 55 29 20 28 397	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53           48           40           33           217	135           13           20           99           100           28           88           13           97           7           48           31           12           10           30           43           41           62           48           95	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120 71 105 57 113	184           15         9           161         109           39         185           12         134           31         118           19         13           41         62           52         74           86         56	261 16 169 226 183 204 4351 28 384 448 272 427 306 284 698 1052 709 517 273 239 442
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1979 1980 1981 1982 1983 1984 1985 1985 1985 1988 1988 1989	$\begin{array}{c} 2 \\ \hline 1 \\ 0 \\ 0 \\ 4 \\ 3 \\ 33 \\ 0 \\ 4 \\ 27 \\ 5 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 0 0 0 1 117 39	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 0 5 185 62	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0	28 5 0 18 26 33 4 4 3 10 24 7 3 19 0 0 0 0 0 0 0 0 27 9 4	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0 32 33 16	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511	390           9           0           6           43           45           25           5           23           1           2           6           13           54           9           14           6           33           91           600	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           18           33           7           42           192           436	391           11           7           8           30           14           28           17           48           5           4           7           11           32           48           55           29           20           28           397           301	188           12           62           41           66           40           13           56           4           15           10           53           48           40           33           217           267	135           13           20           99           100           28           88           13           7           48           31           12           00           43           41           71           62           95           227	120 14 19 127 183 33 139 11 102 18 85 45 12 22 77 120 71 105 100 57 113 169	184           15         9           161         109           39         185           12         134           31         118           78         13           41         62           52         113           92         74           86         174	261 16 169 226 183 204 4351 28 384 448 272 427 306 284 698 1052 709 517 273 239 442 810
2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 3\\ 0\\ 4\\ 4\\ 7\\ 7\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 117 39 5	12 3 0 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 5 185 62 9	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0 0 0 0 27 9 4 6	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0 32 33 16 24	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 3 27 73 69 62	338 8 9 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 5111 341	390           9           0           6           43           45           25           23           1           2           6           13           54           9           14           6           33           91           46           33           91           6600           641	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           18           33           7           42           436           436           477	391           11           7           8           30           14           28           30           14           28           30           14           28           30           14           28           30           17           48           3           5           4           7           11           32           48           55           29           20           28           397           301           172	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53           48           40           63           40           33           2117           2267           124	135           13           20           99           100           28           81           13           97           7           48           31           12           10           30           43           41           71           62           48           95           2277           122	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120 71 105 105 105 105 105 105 105 10	184           15         9           161         109           39         185           124         31           118         78           19         13           134         62           52         113           92         74           86         174           115         174	261 16 169 226 183 204 351 28 384 448 272 427 306 284 408 1052 709 517 273 239 442 810 502
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1979 1980 1981 1982 1983 1984 1985 1985 1985 1988 1988 1989	$\begin{array}{c} 2 \\ \hline 1 \\ 0 \\ 0 \\ 4 \\ 3 \\ 33 \\ 0 \\ 4 \\ 27 \\ 5 \\ 0 \\ 0 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 0 0 0 1 117 39	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 0 5 185 62	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0	28 5 0 18 26 33 4 4 3 10 24 7 3 19 0 0 0 0 0 0 0 0 27 9 4	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0 32 33 16	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511	390           9           0           6           43           45           25           5           23           1           2           6           13           54           9           14           6           33           91           600	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           18           33           7           42           192           436	391           11           7           8           30           14           28           17           48           5           4           7           11           32           48           55           29           20           28           397           301	188           12           62           41           66           40           13           56           4           15           10           53           48           40           33           217           267	135           13           20           99           100           28           88           13           7           48           31           12           00           43           41           71           62           95           227	120 14 19 127 183 33 139 11 102 18 85 45 12 22 77 120 71 105 100 57 113 169	184           15         9           161         109           39         185           12         134           31         118           78         13           41         62           52         113           92         74           86         174	261 16 169 226 183 204 4351 28 448 272 427 306 284 698 1052 709 517 273 239 442 810
2009 2014 2015 2015 2015 2015 2015 2015 2015 2015	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 3\\ 0\\ 4\\ 4\\ 2\\ 7\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 117 39 5	12 3 0 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 5 185 62 9	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0 0 0 0 27 9 4 6	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0 32 33 16 24	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 3 27 73 69 62	338 8 9 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 5111 341	390           9           0           6           43           45           25           23           1           2           6           13           54           9           14           6           33           91           46           33           91           6600           641	383 10 1 8 34 44 36 9 42 2 6 11 11 15 17 52 18 33 7 42 192 436 437 436 437 437 436 44 44 44 44 44 45 45 45 45 45	391           11           7           8           30           14           28           30           14           28           30           14           28           30           14           28           30           17           48           3           5           4           7           11           32           48           55           29           20           28           397           301           172	188           12           62           41           66           15           40           13           56           4           15           14           9           10           53           48           40           63           40           33           2117           2267           124	135           13           20           99           100           28           81           13           97           7           48           31           12           10           30           43           41           71           62           48           95           2277           122	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120 71 105 105 105 105 105 105 105 10	184           15         9           161         109           39         185           12         331           118         78           19         13           134         62           52         113           92         74           86         174           115         174	261 16 169 226 183 204 351 28 448 272 427 306 284 698 810 517 273 239 442 810 502
2009 20ther surf 1970 1971 1971 1972 1973 1975 1976 1977 1977 1978 1977 1978 1978 1980 1980 1981 1982 1983 1984 1985 1986 1987 1986 1987 1989 1990 1990	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 117 39 5 0	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 5 185 62 9 0	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0           0           0           3	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0 0 0 0 27 9 4 6 4	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0 32 33 16 24 26	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 341 343	390           9           0           6           43           45           25           23           1           2           6           13           54           9           14           6           33           91           46           33           91           44           6641           436	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           333           7           422           436           477           551	391           11           7           8           30           14           28           30           14           28           3           5           4           7           11           32           48           55           29           20           28           397           301           172           364	188           12           62           41           66           15           40           356           40           53           48           40           33           217           267           124           194	135           13           20           99           100           28           81           13           99           100           28           81           13           97           7           48           31           12           10           30           43           41           71           62           48           95           2277           122           110	120 14 19 127 183 33 139 11 102 18 85 45 12 22 27 120 71 105 100 57 113 169 112 105 100 57 113 169 113 109 113 109 117 117 102 118 105 100 105 100 105 100 105 100 105 100 105 100 105 100 103 103 100 103 105 100 103 103 100 103 103 100 103 103	184           15           9           161           109           39           185           12           134           31           138           9           13           41           62           713           92           74           86           174           115           130	261 16 169 226 183 304 351 28 384 448 272 427 306 648 1052 709 517 273 239 442 810 502 456
2009 Dther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1985 1985 1986 1987 1988 1989 1990 1991 1992	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 33\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 66\\ 22\\ 3\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 117 39 5 0 0 0	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 5 \\ 185 \\ 62 \\ 9 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           3           1	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 27 \\ 9 \\ 4 \\ 6 \\ 4 \\ 5 \end{array}$	260 6 0 15 17 4 0 12 8 18 14 16 0 2 0 32 33 16 24 26 3	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 341 343 197	390           9           0           6           43           45           25           23           1           2           6           13           54           9           14           6           33           91           641           436           299	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           18           33           7           42           192           436           477           551           265	391           11           7           8           30           14           28           17           48           3           5           4           30           11           32           48           55           29           20           28           397           301           172           364           279	188           12           62           41           66           15           40           53           48           40           33           217           267           124           194           285	135           13           20           99           100           28           81           13           97           7           48           31           10           30           43           41           71           62           48           95           2122           110           190	120 14 19 127 183 33 139 11 102 18 85 45 12 27 120 71 105 57 113 169 112 135 122	184           15           9           161           109           39           185           12           134           31           118           78           133           41           62           52           74           86           174           130           107	261 16 169 226 183 204 351 28 384 448 698 272 427 306 284 698 272 427 306 284 698 272 273 306 284 442 810 299 517 273 239 442 510 249 517 249 517 249 517 249 517 275 517 275 517 275 517 275 517 517 517 517 517 517 517 5
2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 33\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 0 0 0 1 1117 39 5 0 0 0 0 0	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 5 185 62 9 0 0 0 0 0 0 0 0 0 0 0 0 0	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           1           0           0           1           0	$\begin{array}{c} 28 \\ \hline \\ 5 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 32 33 16 24 26 3 0 4	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 341 343 197 71 196	390           9           0           6           43           45           25           23           1           2           6           13           54           9           14           6           33           91           6600           6411           436           299           153           243	383 10 1 8 34 44 9 42 2 6 11 11 15 17 52 18 33 7 42 192 436 477 551 265 192 239 195	391           11           7           8           30           14           28           30           14           28           3           5           4           3           5           4           7           11           32           48           35           29           20           28           397           301           172           364           279           208           2014	188           12           62           41           66           15           40           56           4           15           14           9           10           53           40           63           40           63           40           63           40           63           40           63           40           63           40           63           40           63           40           63           40           63           40           63           40           63           40           63           63           64           194           285           160           181	135           13           20           99           100           28           81           13           97           7           48           31           12           10           30           43           41           71           62           227           122           110           190           156           133	120           14           19           127           183           33           139           11           102           18           85           12           22           27           120           12           12           22           27           100           57           100           57           113           169           112           135           127           137           90	184           15         9           161         109           39         185           12         134           31         118           78         19           13         41           62         52           113         92           74         86           174         115           130         107           101         56	261 16 169 226 183 204 351 28 448 272 427 306 698 1052 709 517 273 239 442 810 502 445 698 1052 709 517 239 442 810 502 60 83 84 83 84 84 85 85 85 85 85 85 85 85 85 85
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1976 1977 1978 1979 1980 1980 1981 1982 1983 1984 1985 1986 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 0\\ 4\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 117 8 2 1 111 0 0 0 0 1 117 39 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8 14	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 5 185 62 9 0 0 0 0 0 0 0 0 0 0 0 0 0	33           4           0           4           34           64           1           62           36           27           13           5           20           0	28 5 0 18 26 33 4 43 10 24 7 3 19 0 0 0 0 0 0 0 27 9 4 6 4 5 0 0 1	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0 32 33 16 24 26 3 0 4 12	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13	338 8 9 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 5111 341 343 197 71 196 104	390           9           0         6           43         45           25         23           1         2           6         13           8         13           54         9           14         6           33         91           45         259           14         14           6         33           91         14           436         299           1533         2433           145         145	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           33           7           42           2           6           111           15           17           52           33           7           42           239           195           343	391           11           7           8           30           14           28           30           14           28           30           14           28           30           14           28           30           17           48           3           5           4           7           11           32           48           3           5           20           28           301           172           364           279           208           214           315	188           12           62           41           66           15           40           56           4           9           10           53           48           40           33           217           124           194           285           160           181           240	135           13           20           99           100           28           81           97           7           48           31           12           10           30           43           11           62           43           95           227           110           190           156           133           140	120           14           19           127           183           33           139           11           102           18           85           12           22           27           120           11           102           18           85           12           22           27           120           100           57           100           57           113           169           112           137           90           112	184           15           9           161           109           39           185           12           134           31           118           78           9           13           41           62           113           92           74           86           1774           130           107           101           56           81	261 16 169 226 183 204 351 28 384 448 272 427 306 698 1052 709 517 273 239 517 273 239 510 502 442 810 502 648 698 810 507 276 698 810 507 507 507 507 507 507 507 50
2009 20ther surf 1970 1971 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1978 1980 1980 1981 1982 1983 1984 1985 1985 1986 1987 1988 1989 1990 1991 1992 1994 1995 1996	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 3\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 117 39 5 0 0 0 0 0 0 0 0 1	12 3 0 6 11 39 1 84 37 16 6 40 0 0 0 0 0 5 185 62 9 0 0 0 0 0 1 185 62 9 0 0 0 1 185 62 9 0 0 0 0 0 1 185 62 9 0 0 0 0 0 1 185 62 9 0 0 0 0 0 0 185 185 185 185 185 185 185 185	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0           0           0           1           0           0           1           0           0           1	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 27 \\ 9 \\ 4 \\ 6 \\ 4 \\ 5 \\ 0 \\ 0 \\ 1 \\ 1 \end{array}$	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 32 33 16 24 26 3 0 4 12 7	45           7           0           8           9           6           20           0           10           5           10           5           10           5           10           5           10           5           13           2           8           3           3           27           73           69           62           156           54           73           24           13           16	338 8 9 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 341 343 197 71 196 104 203	390           9           0           6           43           45           25           23           1           2           6           13           8           13           54           9           14           6           33           91           436           299           153           243           145           105	383 10 1 8 34 44 36 9 42 2 6 11 15 17 52 8 33 7 42 192 192 2436 477 551 265 239 195 343 106	391           11           7           8           30           14           28           17           48           3           5           4           7           11           32           48           55           20           28           397           301           172           364           279           208           214           315           168	188           12           62           41           66           15           40           356           4           15           14           9           10           53           48           40           33           217           124           124           285           160           181           240           235	135           13           20           99           100           28           81           13           97           7           48           31           12           10           30           43           41           71           62           48           95           2277           122           110           190           156           133           140           153	120           14           19           127           183           33           139           11           102           18           85           45           12           27           120           110           105           1000           57           113           169           112           135           122           137           90           112           133	184           15           9           161           109           39           185           12           134           31           138           9           13           41           62           74           86           174           81           100           107           101           56           81           115	261 16 226 183 204 351 28 448 272 247 306 488 1052 273 239 442 456 486 436 193 277 525
2009 2009 2014 2015 2015 2015	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 33\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 17 8 2 1 11 0 0 0 0 0 1 117 39 5 0 0 0 0 0 1 10 0 0 1 0 0 0 0 1 0 0 0 8 14	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 5 \\ 185 \\ 62 \\ 9 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	33           4           0           4           34           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0           0           0           1           0           0           1           1	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	260 6 0 15 17 4 0 12 8 18 14 16 0 2 0 32 33 16 24 26 3 0 4 12 7 7 7	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 343 197 71 196 104 203 142	390           9         0           6         43           45         25           23         1           2         6           13         8           13         54           9         14           6         33           91         6641           436         299           153         243           145         105           251         105	383 10 1 8 34 44 36 9 42 2 6 11 15 17 52 18 33 7 42 192 436 477 751 225 239 195 343 316 106 198	391           11           7           8           30           14           28           17           48           3           5           4           3           5           4           3           5           4           30           11           32           48           55           29           20           20           20           20           20           20           20           20           20           20           20           20           20           20           208           301           172           364           279           208           214           315           168           58	188           12           62           41           66           15           40           53           48           40           33           217           267           124           194           285           160           181           240           2355           88	135           13           20           99           100           28           81           13           97           7           48           31           10           30           43           41           71           62           48           95           227           110           190           156           133           104	120 14 19 127 183 33 139 11 102 18 85 45 12 27 120 71 105 57 113 169 112 135 122 137 90	184           15           9           161           109           39           185           12           134           31           118           78           19           134           41           62           52           74           86           174           130           107           101           56           81           115           82	261 16 169 226 183 204 351 28 448 272 427 306 698 1052 709 517 273 239 442 810 502 456 486 436 193 277 525 320
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2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1997 1998	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 0\\ 4\\ 4\\ 27\\ 5\\ 0\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 117 8 2 1 111 0 0 0 0 0 1 117 39 5 0 0 0 0 0 1 10 0 0 0 0 1 10 0 0 0 8 14 214 13 4 15 14 10 0 0 8 14 14 214 11 10 0 0 8 11 11 11 11 11 11 11 11 11 11 11 11 1	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	33           4           0           4           64           1           62           36           27           13           5           20           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           1           0           0        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 14           6         33           91         14           6         33           143         6           153         243           145         105           251         213           188         188	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           18           33           7           42           2           6           111           15           17           521           333           7           42           2           6           111           15           17           521           333           7           42           239           195           343           106           198           369           274	391           11           7           8           30           14           28           30           14           28           30           14           28           30           14           28           30           17           48           3           5           4           7           11           32           48           3           55           29           20           28           397           301           172           364           279           208           214           315           168           58           269           254	188           12           62           41           66           15           40           56           4           15           14           9           10           53           48           40           33           217           2267           124           194           285           181           2400           235           88           133           232	135           13           20           99           100           28           81           13           97           7           48           31           12           10           30           43           41           71           62           48           95           227           122           110           190           156           133           104           153           104           118           72	120           14           19           127           183           33           139           11           102           18           85           12           22           27           120           12           22           27           120           121           105           1000           57           113           169           112           137           90           112           133           90           103           54	184           15           9           161           109           39           185           12           134           31           118           78           9           13           41           62           113           92           74           86           174           115           130           107           101           56           81           115           82           75           43	261 16 169 226 183 204 351 28 384 448 272 28 384 448 272 28 384 448 272 284 407 273 306 284 409 517 273 239 442 456 284 409 517 273 239 442 510 502 608 810 284 409 517 275 206 284 409 517 275 206 284 408 517 275 206 284 408 517 275 284 408 517 275 285 206 407 275 273 239 442 517 275 239 245 517 275 239 245 517 275 239 245 517 275 239 245 260 517 275 250 517 502 502 502 502 502 502 502 502
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1975 1976 1977 1978 1979 1980 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 117 39 5 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 33\\ \hline \\ 4\\ 0\\ 0\\ 4\\ 34\\ 64\\ 1\\ 62\\ 36\\ 27\\ 13\\ 5\\ 20\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 13\\ 0\\ 0\\ 0\\ 0\\ 13\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 28 \\ \hline \\ 5 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0 32 33 16 24 26 3 0 4 12 7 7 3 3 3 3	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 69 62 156 54 73 24 13 14 6 20 8 3 3 27 7 3 28 20 8 8 8 9 6 8 8 9 6 8 8 9 6 8 8 9 6 8 8 9 6 8 8 9 9 6 8 8 9 8 8 9 8 8 9 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 341 343 197 71 196 104 203 142 9 32 39	390           9           0           6           43           45           25           23           1           2           6           13           54           9           14           6           33           91           46           33           91           46           33           91           46           33           91           46           33           91           46           33           91           436           299           153           145           105           2511           213           188           157	383 10 1 8 34 44 36 9 42 2 6 11 15 17 52 8 33 7 42 192 192 192 243 6 6 11 11 15 17 52 8 33 7 42 2 6 11 15 17 52 8 33 7 42 19 2 43 6 10 11 11 15 17 52 19 2 43 6 10 10 10 10 10 10 10 10 10 10	391           11           7           8           30           14           28           30           14           28           35           4           3           5           4           7           11           32           48           55           29           20           28           3907           301           172           364           279           208           209           208           3907           3011           172           364           214           315           168           58           269           254           139	188           12           62           41           66           15           40           35           40           53           48           40           33           217           124           194           285           160           235           88           133           232           207	135           13           20           99           100           28           81           13           99           100           28           81           13           97           7           48           31           12           10           30           43           11           62           48           95           2277           122           110           150           153           104           153           104           153           104           172           245	120           14           19           127           183           33           139           11           102           18           85           45           12           22           27           120           151           100           57           1135           120           135           121           135           122           137           90           112           133           90           103           54           153	184           15           9           161           109           39           185           12           134           31           13           41           62           113           92           74           86           1774           130           107           101           56           81           115           82           75           43           95	261 16 169 226 183 204 351 28 384 448 272 28 384 448 272 273 239 442 456 486 436 436 193 277 525 320 305 167 167 169 183 198 109 109 109 109 109 109 109 109
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1978 1980 1980 1981 1982 1983 1984 1985 1985 1986 1987 1988 1985 1986 1987 1998 1999 1990 1991 1992 1993 1994 1995 1996 1997 1999 2000 2001	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 3\\ 0\\ 4\\ 2\\ 7\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 34 17 8 2 1 11 0 0 0 0 0 1 1 117 39 5 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 8 14 2 14 1 34 11 1 1 1	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 33\\ \hline \\ 4\\ 0\\ 0\\ 4\\ 34\\ 64\\ 1\\ 62\\ 36\\ 27\\ 13\\ 5\\ 20\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 13\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 32 33 16 24 26 3 0 4 12 7 7 3 3 14	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20 8 21 3 191	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 341 343 197 71 196 104 203 142 93 205 39 305	390           9         0           6         43           45         25           23         1           2         6           13         8           13         54           9         14           6         33           91         4           6         33           91         44           641         436           299         153           243         105           251         213           188         157           60         157	383           10           1           8           34           44           36           9           2           6           11           15           17           52           188           337           422           436           9           42           15           17           52           192           436           477           551           265           239           195           343           106           198           369           274           188           103	391           11           7           8           30           14           28           17           48           3           5           4           3           5           4           30           11           32           48           55           20           28           397           301           172           364           279           208           214           315           168           58           269           254           139           99	188           12           62           41           66           15           40           53           48           40           53           48           40           33           217           267           124           194           285           160           181           133           232           240           235           88           133           2322           207           95	135           13           20           99           100           28           81           13           97           7           48           31           10           30           43           41           71           62           48           95           227           122           110           190           153           104           118           72           245           99	120           14           19           127           183           33           139           11           102           18           85           45           22           27           120           71           105           100           57           113           169           112           135           122           137           90           103           54           153           90           103           54           153           94	184           15           9           161           109           39           185           12           134           31           118           78           92           74           86           174           86           107           101           56           81           115           82           75           43           95           61	261 16 169 226 183 204 351 28 384 448 272 427 306 88 1052 709 442 284 698 1052 709 442 456 486 436 193 207 273 239 442 457 273 239 442 457 275 320 457 275 320 457 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 709 1052 1055 1055 1055 1055 1055 1055 1055 1055 1055 1055 1055 1055 1
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1975 1976 1977 1978 1979 1980 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 117 39 5 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 33\\ \hline \\ 4\\ 0\\ 0\\ 4\\ 34\\ 64\\ 1\\ 62\\ 36\\ 27\\ 13\\ 5\\ 20\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 13\\ 0\\ 0\\ 0\\ 0\\ 13\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 28 \\ \hline \\ 5 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 3 0 32 33 16 24 26 3 0 4 12 7 7 3 3 3 3	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20 8 21 3 191 7	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 341 343 197 71 196 104 203 142 9 32 39	390           9           0           6           43           45           25           23           1           2           6           13           54           9           14           6           33           91           46           33           91           46           33           91           46           33           91           46           33           91           46           33           91           436           299           153           145           105           2511           213           188           157	383 10 1 8 34 44 36 9 42 2 6 11 15 17 52 8 33 7 42 192 192 192 243 6 6 11 11 15 17 52 8 33 7 42 2 6 11 15 17 52 8 33 7 42 19 2 43 6 10 11 11 15 17 52 19 2 43 6 10 10 10 10 10 10 10 10 10 10	391           11           7           8           30           14           28           30           14           28           35           4           3           5           4           7           11           32           48           55           29           20           28           3907           301           172           364           279           208           209           208           3907           3011           172           364           214           315           168           58           269           254           139	188           12           62           41           66           15           40           35           40           53           48           40           33           217           124           194           285           160           235           88           133           232           207	135           13           20           99           100           28           81           13           99           100           28           81           13           97           7           48           31           12           10           30           43           11           62           48           95           2277           122           110           150           153           104           153           104           153           104           172           245	120           14           19           127           183           33           139           11           102           18           85           45           12           22           27           120           151           100           57           1135           120           135           121           135           122           137           90           112           133           90           103           54           153	184           15           9           161           109           39           185           12           134           31           13           41           62           113           92           74           86           1774           130           107           101           56           81           115           82           75           43           95	261 16 169 226 183 204 351 28 384 448 272 28 384 448 272 28 384 448 272 28 384 448 272 28 384 448 272 28 384 448 272 28 384 448 272 28 384 448 272 28 28 427 273 239 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 709 442 450 1052 707 1052 709 442 450 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 707 1052 1
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1978 1980 1980 1981 1982 1983 1984 1985 1985 1986 1987 1988 1985 1986 1987 1998 1999 1990 1991 1992 1993 1994 1995 1996 1997 1999 2000 2001	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 3\\ 0\\ 4\\ 2\\ 7\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 34 17 8 2 1 11 0 0 0 0 0 1 1 117 39 5 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 8 14 2 14 1 34 11 1 1 1	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 33\\ \hline \\ 4\\ 0\\ 0\\ 4\\ 34\\ 64\\ 1\\ 62\\ 36\\ 27\\ 13\\ 5\\ 20\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 13\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	260 6 0 15 17 4 0 12 8 18 14 4 16 0 2 0 32 33 16 24 26 3 0 4 12 7 7 3 3 14	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20 8 21 3 191	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 341 343 197 71 196 104 203 142 93 205 39 305	390           9         0           6         43           45         25           23         1           2         6           13         8           13         54           9         14           6         33           91         4           6         33           91         44           641         436           299         153           243         105           251         213           188         157           60         157	383           10           1           8           34           44           36           9           2           6           11           15           17           52           188           337           422           436           9           42           15           17           52           192           436           477           551           265           239           195           343           106           198           369           274           188           103	391           11           7           8           30           14           28           17           48           3           5           4           3           5           4           30           11           32           48           55           20           28           397           301           172           364           279           208           214           315           168           58           269           254           139           99	188           12           62           41           66           15           40           53           48           40           53           48           40           33           217           267           124           194           285           160           181           133           232           240           235           88           133           2322           207           95	135           13           20           99           100           28           81           13           97           7           48           31           10           30           43           41           71           62           48           95           227           122           110           190           153           104           118           72           245           99	120           14           19           127           183           33           139           11           102           18           85           45           22           27           120           71           105           100           57           113           169           112           135           122           137           90           103           54           153           90           103           54           153           94	184           15           9           161           109           39           185           12           134           31           118           78           92           74           86           174           86           107           101           56           81           115           82           75           43           95           61	261 16 169 226 183 204 351 28 384 448 272 427 306 88 1052 709 442 284 698 1052 709 442 456 486 436 193 207 273 239 442 457 273 239 442 457 275 275 320 457 16 16 16 183 284 10 10 10 10 10 10 10 10 10 10
2009 2009 2009 2009 2009 2000 200 2000 2	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 33\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ \hline \\ 2 \\ 0 \\ 0 \\ 8 \\ 14 \\ 214 \\ 1 \\ 34 \\ 17 \\ 8 \\ 2 \\ 1 \\ 11 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 117 \\ 39 \\ 5 \\ 0 \\ 0 \\ 0 \\ 1 \\ 10 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 33\\ \hline \\ 4\\ 0\\ 0\\ 4\\ 34\\ 64\\ 1\\ 62\\ 36\\ 27\\ 13\\ 5\\ 20\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 260 \\ \hline \\ 6 \\ 0 \\ 15 \\ 17 \\ 4 \\ 0 \\ 12 \\ 8 \\ 18 \\ 14 \\ 4 \\ 16 \\ 0 \\ 2 \\ 0 \\ 32 \\ 33 \\ 16 \\ 24 \\ 26 \\ 3 \\ 0 \\ 4 \\ 12 \\ 7 \\ 7 \\ 3 \\ 3 \\ 14 \\ 1 \end{array}$	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20 8 21 3 191 7	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 511 143 197 71 196 104 203 142 93 305 142	390           9         0           6         43           45         25           23         1           2         6           13         8           13         54           9         14           6         33           91         446           641         436           299         153           243         145           105         251           213         188           157         60           219         219	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           18           33           7           42           192           436           477           551           265           239           195           369           274           188           103           105	391           11           7           8           30           14           28           37           17           48           3           5           4           32           48           55           29           20           28           397           301           172           364           279           208           214           315           168           58           269           254           139           99           28	188           12           62           41           66           15           40           53           48           40           33           217           267           124           194           285           160           181           235           88           133           232           207           95           39	135           13           20           99           100           28           81           30           7           48           31           10           30           43           41           71           62           48           95           2227           110           162           48           95           2122           110           190           156           133           104           118           72           99           51	120           14           19           127           183           33           139           11           102           18           85           45           22           27           120           71           105           57           113           169           112           135           122           137           90           103           54           153           94           30	184           15           9           161           109           39           185           12           134           31           118           78           19           134           41           62           52           74           86           174           130           107           101           56           81           115           82           75           43           33	261 16 169 226 183 204 351 28 384 448 272 427 306 698 1052 709 517 730 648 6486 436 193 277 442 456 486 486 486 486 486 486 486 48
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1978 1980 1981 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 33\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ \hline \\ 2 \\ 0 \\ 0 \\ 8 \\ 14 \\ 214 \\ 1 \\ 34 \\ 17 \\ 8 \\ 2 \\ 1 \\ 11 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	33           4           0           4           64           1           62           36           27           13           5           20           0<	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 260 \\ \hline \\ 6 \\ 0 \\ 15 \\ 17 \\ 4 \\ 0 \\ 12 \\ 8 \\ 18 \\ 14 \\ 4 \\ 16 \\ 0 \\ 2 \\ 0 \\ 32 \\ 33 \\ 16 \\ 24 \\ 26 \\ 3 \\ 0 \\ 4 \\ 12 \\ 7 \\ 7 \\ 3 \\ 3 \\ 14 \\ 1 \\ 0 \end{array}$	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20 8 21 3 16 5 5 10 8 9 6 20 20 20 20 20 20 20 20 20 20	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 341 341 343 197 71 196 104 203 142 82 233	390           9           0           6           43           45           25           23           1           2           6           13           8           13           54           9           14           6           33           91           46           33           91           46           33           91           46           33           91           46           33           91           436           299           1436           209           153           213           188           157           60           213           188           157           60           213           138	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           33           7           42           2           6           111           15           17           52           33           7           42           2           6           111           15           77           42           233           7           42           239           195           343           106           198           103           105           151           62	391           11           7           8           30           14           28           30           14           28           30           14           28           30           14           28           30           17           48           3           5           4           7           11           32           48           3           5           20           28           397           301           172           364           279           208           214           315           168           58           269           254           139           99           28           65           36	188           12           62           41           66           15           40           56           4           9           10           53           48           40           33           217           124           194           285           160           235           88           133           232           2077           95           39           43           28	135           13           20           99           100           28           81           13           97           7           48           31           12           10           30           43           41           71           62           48           95           227           110           190           156           133           104           118           72           245           99           51           23	120           14           19           127           183           33           139           11           102           18           85           12           22           27           120           12           12           22           27           100           57           100           57           103           54           153           94           30           16	184           15           9           161           109           39           185           12           134           31           118           78           9           13           41           62           113           92           74           86           174           115           130           1007           56           81           115           82           75           43           95           61           33           29	261 16 169 226 183 204 351 28 384 448 272 28 384 448 272 273 306 284 4052 709 517 273 239 442 456 436 436 1052 709 442 275 239 442 275 239 445 28 406 28 406 28 407 275 204 28 407 275 204 28 407 275 204 28 407 275 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2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1978 1978 1980 1981 1982 1983 1984 1985 1986 1987 1986 1987 1989 1990 1991 1992 1993 1994 1995 1996 1997 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 3\\ 0\\ 4\\ 2\\ 7\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 33\\ \hline \\ 4\\ 0\\ 0\\ 4\\ 34\\ 64\\ 1\\ 62\\ 36\\ 27\\ 13\\ 5\\ 20\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 13\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 260 \\ \hline \\ 6 \\ 0 \\ 15 \\ 17 \\ 4 \\ 0 \\ 12 \\ 8 \\ 18 \\ 14 \\ 4 \\ 16 \\ 0 \\ 2 \\ 0 \\ 3 \\ 16 \\ 24 \\ 26 \\ 3 \\ 10 \\ 24 \\ 26 \\ 3 \\ 11 \\ 24 \\ 26 \\ 3 \\ 11 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 0 \\ 12 \\ 0 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20 8 21 3 191 7 3 58 191 7 3 58 19 19 19 10 10 10 10 10 10 10 10 10 10	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 41 113 511 341 343 197 71 196 104 203 142 93 205 39 305 142 2 233 16	390           9         0           6         43           45         25           23         1           2         6           13         8           13         54           9         9           14         6           33         91           44         436           299         153           153         105           251         213           188         157           60         219           177         138           33         33	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           333           7           42           436           477           551           265           239           343           106           198           369           274           188           103           105           151           162           9	391           11           7           8           30           14           28           30           14           28           35           4           7           11           32           48           55           29           20           28           397           301           172           364           279           208           214           315           168           58           264           139           99           28           315           168           58           264           139           99           28           36           31	188           12           62           41           66           15           40           356           4           15           14           9           10           53           48           40           33           217           267           1124           194           285           160           2355           88           133           2222           207           95           39           43           28           39	135           13           20           99           100           28           81           13           97           7           48           31           10           30           43           11           62           48           95           122           110           150           153           104           118           72           245           99           51           23           10           24	120           14           19           127           183           33           139           11           102           18           85           45           12           22           27           120           11           105           100           57           113           169           112           133           90           112           133           90           112           133           90           112           133           90           112           133           90           112           133           94           30           16           10           19	184           15           9           161           109           39           185           12           134           31           138           9           13           41           62           713           92           74           86           1774           130           107           101           66           81           115           82           75           61           33           29           61           33           29           61           33           29           61           33           91           63	261 16 169 226 183 204 351 238 448 272 245 698 81052 273 239 442 456 486 436 436 436 193 277 525 320 455 277 167 525 320 89 255 167 169 89 255 167 169 169 169 169 169 169 169 169
2009 2009 2009 2009 2007 2009 2009 2000 200 2000 2	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 3\\ 0\\ 4\\ 2\\ 7\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 0 \\ \hline \\ 2 \\ 0 \\ 0 \\ 8 \\ 14 \\ 214 \\ 1 \\ 34 \\ 17 \\ 8 \\ 2 \\ 1 \\ 11 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \\ 117 \\ 39 \\ 5 \\ 0 \\ 0 \\ 0 \\ 1 \\ 10 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 33\\ \hline \\ 4\\ 0\\ 0\\ 4\\ 34\\ 64\\ 1\\ 62\\ 36\\ 27\\ 13\\ 5\\ 20\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 260 \\ \hline \\ 6 \\ 0 \\ 15 \\ 17 \\ 4 \\ 0 \\ 12 \\ 8 \\ 18 \\ 14 \\ 4 \\ 16 \\ 0 \\ 2 \\ 0 \\ 32 \\ 33 \\ 16 \\ 24 \\ 26 \\ 3 \\ 0 \\ 4 \\ 12 \\ 7 \\ 7 \\ 3 \\ 3 \\ 14 \\ 1 \\ 0 \\ 12 \\ 0 \\ 0 \\ 0 \\ \end{array}$	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20 8 21 3 19 17 3 19 10 5 10 14 13 2 8 3 3 27 7 3 5 10 10 14 13 2 8 3 3 27 73 69 62 156 54 73 169 62 156 54 73 24 13 24 13 24 13 24 13 24 13 24 13 24 13 24 13 24 13 24 13 24 13 24 13 24 13 24 13 24 13 16 54 73 24 13 16 54 73 24 13 24 13 24 13 16 54 73 24 13 16 54 73 3 16 54 73 3 16 54 73 24 13 16 20 8 113 24 13 16 54 73 3 16 17 3 18 113 24 113 24 115 54 73 3 115 16 54 73 16 19 11 7 3 191 7 3 58 111 7 3 191 7 3 58 111 7 3 191 7 3 58 111 7 3 58 111 7 3 58 111 7 3 58 111 7 3 58 111 7 3 58 111 7 3 58 111 7 3 58 111 7 3 58 111 7 3 58 111 7 3 58 111 111 111 111 111 111 111	338           8           0           9           11           20           36           2           6           2           5           12           13           11           4           9           15           17           3           41           133           511           341           343           197           71           196           203           305           142           93           305           142           233           16           18	390           9         0           6         43           45         25           23         1           2         6           13         8           13         54           9         14           6         33           91         6641           436         299           153         243           105         251           213         188           187         60           219         177           133         20	383           10           1           8           34           44           36           9           2           6           11           15           17           52           333           7           42           192           436           477           551           265           239           195           343           106           198           369           274           188           103       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     43           39           28	135           13           20           99           100           28           81           13           97           7           48           31           10           30           43           41           71           62           48           95           110           30           43           41           71           62           48           95           122           133           140           153           104           118           72           245           99           51           23           10           24           26	120           14           19           127           183           33           139           11           102           18           85           45           22           27           120           71           105           100           57           113           169           112           133           90           103           54           30           16           10           153           94           30           16           10           19           33	184           15           9           161           109           39           185           12           134           31           118           78           92           74           86           174           80           107           101           56           81           115           82           75           61           33           29           16           33           295           61           33           29           16           34           28	261 16 169 226 183 204 351 284 448 272 427 306 698 1052 709 517 273 239 442 456 486 436 193 307 502 455 320 455 167 169 169 169 169 169 169 169 169
2009 2009 20ther surf 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1978 1978 1980 1981 1982 1983 1984 1985 1986 1987 1986 1987 1989 1990 1991 1992 1993 1994 1995 1996 1997 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	$\begin{array}{c} 2\\ \hline \\ 1\\ 0\\ 0\\ 4\\ 3\\ 3\\ 0\\ 4\\ 27\\ 5\\ 0\\ 0\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	0 2 0 8 14 214 1 34 17 8 2 1 11 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0	$\begin{array}{c} 12 \\ \hline \\ 3 \\ 0 \\ 0 \\ 6 \\ 11 \\ 39 \\ 1 \\ 84 \\ 37 \\ 16 \\ 6 \\ 40 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 33\\ \hline \\ 4\\ 0\\ 0\\ 4\\ 34\\ 64\\ 1\\ 62\\ 36\\ 27\\ 13\\ 5\\ 20\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 13\\ 0\\ 0\\ 0\\ 0\\ 1\\ 1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 28 \\ \hline 5 \\ 0 \\ 0 \\ 18 \\ 26 \\ 33 \\ 4 \\ 43 \\ 10 \\ 24 \\ 7 \\ 3 \\ 19 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	$\begin{array}{c} 260 \\ \hline \\ 6 \\ 0 \\ 15 \\ 17 \\ 4 \\ 0 \\ 12 \\ 8 \\ 18 \\ 14 \\ 4 \\ 16 \\ 0 \\ 2 \\ 0 \\ 3 \\ 16 \\ 24 \\ 26 \\ 3 \\ 10 \\ 24 \\ 26 \\ 3 \\ 11 \\ 24 \\ 26 \\ 3 \\ 11 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 0 \\ 12 \\ 0 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 12 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	45 7 0 8 9 6 20 0 10 5 10 14 6 13 2 8 3 3 27 73 69 62 156 54 73 24 13 16 20 8 21 3 191 7 3 58 191 7 3 58 19 19 19 10 10 10 10 10 10 10 10 10 10	338 8 0 9 11 20 36 2 6 2 5 12 13 11 4 9 15 17 3 41 113 41 113 511 341 343 197 71 196 104 203 142 93 205 39 305 142 2 233 16	390           9         0           6         43           45         25           23         1           2         6           13         8           13         54           9         9           14         6           33         91           44         436           299         153           153         105           251         213           188         157           60         219           177         138           33         33	383           10           1           8           34           44           36           9           42           2           6           11           15           17           52           333           7           42           436           477           551           265           239           343           106           198           369           274           188           103           105           151           162           9	391           11           7           8           30           14           28           30           14           28           35           4           7           11           32           48           55           29           20           28           397           301           172           364           279           208           214           315           168           58           264           139           99           28           315           168           58           264           139           99           28           36           31	188           12           62           41           66           15           40           356           4           15           14           9           10           53           48           40           33           217           267           1124           194           285           160           2355           88           133           2222           207           95           39           43           28           39	135           13           20           99           100           28           81           13           97           7           48           31           10           30           43           11           62           48           95           122           110           150           153           104           118           72           245           99           51           23           10           24	120           14           19           127           183           33           139           11           102           18           85           45           12           22           27           120           11           105           100           57           113           169           112           133           90           112           133           90           112           133           90           112           133           90           112           133           90           112           133           94           30           16           10           19	184           15           9           161           109           39           185           12           134           31           138           9           13           41           62           713           92           74           86           1774           130           107           101           66           81           115           82           75           61           33           29           61           33           29           61           33           29           61           33           91           63	261 16 169 226 183 204 351 238 448 272 245 698 81052 273 239 442 456 486 436 436 436 193 277 525 320 455 277 167 525 320 89 255 167 169 89 255 167 169 169 169 169 169 169 169 169

Table A2 cont.

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rse seine	e 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1970	53799	100076	126485	17480	6528	1423	442	116	24	0	0	0	0	0	0	0
1971	48997	146315	37912	46091	354	460	424	0	0	0	0	0	0	0	0	0
1972	40900	89956	30577	2247	3412	1007	0	278	0	0	0	0	0	0	0	0
1973	4747	70245	28261	5132	1469	2018	131	17	22	õ	õ	õ	õ	õ	õ	Ő
1974	20773	15489	16422	3946	2421	1339	148	74	20	7	8	10	19	30	38	50
1975	29671	145069	6412	12799	675	677	230	70	55	100	68	47	82	91	149	379
1976	4016	17240	65387	4	0	0	0	0	13	17	29	32	69	61	92	252
1977	759	18036	3215	18850	5605	861	830	115	4	15	10	26	55	95	101	252
1978	3915	6883	17300	2048	5725	4642	383	47	77	30	17	5	7	8	14	64
1979	44	6309	13548	7292	9041	262	214	38	0	9	21	6	0	44	150	895
1980	2094	10476	7861	5247	2817	192	23	12	264	126	63	60	26	9	8	80
1981	2931	6858	7602	296	1283	364	72	125	520	1271	719	255	134	73	45	37
1982	817	514	670	145	9	5	24	66	70	152	273	257	126	49	30	14
1983	1828	0	82	9	0	0	25	22	159	199	255	269	349	242	103	130
1984	129	147	0	0	0	9	6	14	74	206	288	356	247	278	113	137
1985	0	0	0	1	0	0	2	13	37	81	162	237	258	242	233	313
1986	0	0	0	0	0	0	0	11	16	36	63	115	179	222	305	427
1987	0	0	0	0	0	0	5	21	100	233	182	157	161	186	176	382
1988	õ	õ	õ	õ	õ	õ	3	7		217	212	208	168	159	179	395
									62							
1989	0	0	0	0	0	0	1	9	72	193	216	281	174	187	160	291
1990	0	0	0	0	0	0	1	10	131	353	306	247	197	157	155	226
1991	5	1	0	0	1	1	24	166	491	323	150	52	35	22	12	18
1992	0	0	0	0	0	0	0	39	220	205	227	231	150	103	66	107
1993	0	0	0	0	0	0	5	68	794	533	129	96	44	27	11	7
1994	0	0	0	0	0	0	2	72	694	324	341	144	54	36	13	23
1995	o	0	0	o	0	o	õ	5	164	588	323	129	79	47	28	25
							2	29								
1996	0	0	0	0	0	0			80	167	384	218	127	76	51	51
1997	0	0	0	0	0	0	0	5	175	209	154	189	191	166	100	82
1998	0	0	0	0	0	0	0	13	216	498	254	131	129	135	56	36
1999	0	0	0	0	0	0	0	14	148	485	417	240	74	42	29	20
2000	0	0	0	0	0	0	0	7	218	289	271	308	203	99	43	37
2001	0	0	0	0	0	0	0	12	36	110	168	288	178	133	51	36
2002	0	0	0	0	0	0	0	73	132	71	91	146	224	185	114	77
2003	0	0	0	0	0	0	0	311	625	434	177	88	82	82	36	45
	0															0
2004	0	0	0	0	0	0	0	64	64	72	33	17	1	0	0	
	•		•					11	32	86	163	324	136	74	34	86
	0	0	0	0	0	0	0									
	0	0	0	0	0	0	0	15	4	4	2	0	3	0	0	0
2006									4 11	4 5	2 6	0 8	3 5	0 16	0 8	0 50
2005 2006 2007 2009	0	0	0	0	0	0	0	15								
2006 2007	0 0	0 0	0 0	0 0	0 0	0 0	0 0	15 0	11	5	6	8	5	16	8	50
2006 2007 2009	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	15 0 0	11	5 34	6 10	8 2	5 0	16 0	8 0	50 0
2006 2007 2009 Sport	0 0 0	0 0 0 2	0 0 0 3	0 0 0 4	0 0 0 5	0 0 0 6	0 0 0 7	15 0 0 8	11 41 9	5 34 10	6 10 11	8 2 12	5 0 13	16 0 14	8 0 15	50 0 16
2006 2007 2009 Sport 1970	0 0 0 1 5121	0 0 0 2 4223	0 0 0 3 748	0 0 0 4 30	0 0 0 5 0	0 0 0 6 4	0 0 0 7 20	15 0 0 8 43	11 41 9 4	5 34 10 70	6 10 11 134	8 2 12 151	5 0 13 288	16 0 14 415	8 0 15 295	50 0 16 778
2006 2007 2009 Sport 1970 1971	0 0 0 1 5121 13023	0 0 0 2 4223 5442	0 0 0 3 748 0	0 0 0 4 30 0	0 0 0 5 0 7	0 0 0 6 4 114	0 0 0 7 20 74	15 0 0 8 43 98	11 41 9 4 41	5 34 10 70 39	6 10 11 134 100	8 2 12 151 186	5 0 13 288 491	16 0 14 415 659	8 0 15 295 634	50 0 16 778 145
2006 2007 2009 Sport 1970 1971 1972	0 0 0 1 5121 13023 4419	0 0 0 2 4223 5442 8293	0 0 0 3 748 0 2963	0 0 0 4 30 0 243	0 0 0 5 0 7 384	0 0 0 6 4 114 114	0 0 7 20 74 16	15 0 0 8 43 98 75	11 41 9 4 41 58	5 34 10 70 39 29	6 10 11 134 100 67	8 2 12 151 186 239	5 0 13 288 491 537	16 0 14 415 659 785	8 0 15 295 634 779	50 0 16 778 145 199
2006 2007 2009 Sport 1970 1971 1972 1973	0 0 1 5121 13023 4419 227	0 0 2 4223 5442 8293 2889	0 0 3 748 0 2963 1122	0 0 4 30 0 243 235	0 0 5 0 7 384 67	0 0 0 6 4 114 114 148	0 0 7 20 74 16 23	15 0 0 8 43 98 75 21	11 41 9 4 41 58 86	5 34 10 70 39 29 77	6 10 11 134 100 67 47	8 2 12 151 186 239 80	5 0 13 288 491 537 175	16 0 14 415 659 785 277	8 0 15 295 634 779 355	50 0 16 77 145 199 154
2006 2007 2009 <u>Sport</u> 1970 1971 1972 1973 1974	0 0 1 5121 13023 4419 227 34891	0 0 2 4223 5442 8293 2889 1568	0 0 3 748 0 2963 1122 1176	0 0 4 30 0 243 235 0	0 0 5 0 7 384 67 0	0 0 6 4 114 114 148 3	0 0 7 20 74 16 23 0	15 0 0 8 43 98 75 21 0	11 41 9 4 41 58 86 7	5 34 10 70 39 29 77 46	6 10 11 134 100 67 47 368	8 2 12 151 186 239 80 16	5 0 13 288 491 537 175 40	16 0 14 415 659 785 277 1474	8 0 15 295 634 779 355 788	50 0 16 773 145 199 154 650
2006 2007 2009 <u>Sport</u> 1970 1971 1972 1973 1974	0 0 1 5121 13023 4419 227	0 0 2 4223 5442 8293 2889	0 0 3 748 0 2963 1122	0 0 4 30 0 243 235	0 0 5 0 7 384 67	0 0 0 6 4 114 114 148	0 0 7 20 74 16 23	15 0 0 8 43 98 75 21	11 41 9 4 41 58 86	5 34 10 70 39 29 77	6 10 11 134 100 67 47	8 2 12 151 186 239 80	5 0 13 288 491 537 175	16 0 14 415 659 785 277	8 0 15 295 634 779 355	50 0 16 773 145 199 154 650
2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975	0 0 1 5121 13023 4419 227 34891	0 0 2 4223 5442 8293 2889 1568	0 0 3 748 0 2963 1122 1176	0 0 4 30 0 243 235 0	0 0 5 0 7 384 67 0	0 0 6 4 114 114 148 3	0 0 7 20 74 16 23 0 34 7	15 0 0 8 43 98 75 21 0	11 41 9 4 41 58 86 7 11 16	5 34 10 70 39 29 77 46 33 21	6 10 11 134 100 67 47 368	8 2 12 151 186 239 80 16	5 0 13 288 491 537 175 40	16 0 14 415 659 785 277 1474	8 0 15 295 634 779 355 788	50 0 16 77 145 199 154 650 217
2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975 1976	0 0 1 5121 13023 4419 227 34891 13629	0 0 2 4223 5442 8293 2889 1568 2547	0 0 3 748 0 2963 1122 1176 87	0 0 4 30 0 243 235 0 278	0 0 5 0 7 384 67 0 37	0 0 6 4 114 114 148 3 10	0 0 7 20 74 16 23 0 34	15 0 0 8 43 98 75 21 0 11	11 41 9 4 41 58 86 7 11	5 34 10 70 39 29 77 46 33	6 10 11 134 100 67 47 368 24	8 2 12 151 186 239 80 16 56	5 0 13 288 491 537 175 40 90	16 0 14 415 659 785 277 1474 226	8 0 15 295 634 779 355 788 330	50 0 16 773 145 199 154 650 217 155
2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975 1976 1977	0 0 1 5121 13023 4419 227 34891 13629 1328	0 0 2 4223 5442 8293 2889 1568 2547 916	0 0 3 748 0 2963 1122 1176 87 607	0 0 4 30 0 243 235 0 278 13	0 0 5 0 7 384 67 0 37 70	0 0 6 4 114 114 148 3 10 18	0 0 7 20 74 16 23 0 34 7	15 0 0 8 43 98 75 21 0 11 0	11 41 9 4 41 58 86 7 11 16	5 34 10 70 39 29 77 46 33 21	6 10 11 134 100 67 47 368 24 39	8 2 12 151 186 239 80 16 56 43	5 0 13 288 491 537 175 40 90 99	16 0 14 415 659 785 277 1474 226 100	8 0 15 295 634 779 355 788 330 178	50 0 16 773 145 199 154 650 217 155 198
2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975 1976 1977 1978	0 0 1 5121 13023 4419 227 34891 13629 1328 663	0 0 2 4223 5442 8293 2889 1568 2547 916 3707	0 0 3 748 0 2963 1122 1176 87 607 447	0 0 4 30 0 243 235 0 278 13 89	0 0 5 0 7 384 67 0 37 70 25	0 0 0 6 4 114 114 148 3 10 18 4	0 0 7 20 74 16 23 0 34 7 7	15 0 0 8 43 98 75 21 0 11 0 3	11 41 9 4 41 58 86 7 11 16 5	5 34 10 70 39 29 77 46 33 21 2	6 10 11 134 100 67 47 368 24 39 5	8 2 12 151 186 239 80 16 56 43 10	5 0 13 288 491 537 175 40 90 99 24	16 0 14 415 659 785 277 1474 226 100 59	8 0 15 295 634 779 355 788 330 178 100	50 0 16 773 145 199 154 650 217 155 198 216
2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	0 0 1 5121 13023 4419 227 34891 13629 1328 663 1563 2737	0 0 2 4223 5442 8293 2889 1568 2547 916 3707 3447 3933	0 0 0 748 0 2963 1122 1176 87 607 447 226 541	0 0 0 4 30 0 243 235 0 278 13 89 29 40	0 0 0 5 0 7 384 67 0 37 70 25 18 20	0 0 0 6 4 114 114 148 3 10 18 4 4 13	0 0 0 7 20 74 16 23 0 34 7 7 8 46	15 0 0 8 43 98 75 21 0 111 0 3 0 146	11 41 9 4 41 58 86 7 11 16 5 6 26	5 34 10 70 39 29 77 46 33 21 2 42 23	6 10 11 134 100 67 47 368 24 39 5 10 32	8 2 12 151 186 239 80 16 56 43 10 4 39	5 0 13 288 491 537 175 40 90 99 24 17 76	16 0 14 415 659 785 277 1474 226 100 59 21 118	8 0 15 295 634 779 355 788 330 178 100 113 167	50 0 16 773 145 199 154 650 217 155 198 216 194
2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	0 0 1 5121 13023 4419 227 34891 13629 1328 663 1563 2737 1017	0 0 0 4223 5442 8293 2889 1568 2547 916 3707 3447 3933 5125	0 0 0 748 0 2963 1122 1176 87 607 447 226 541 361	0 0 0 4 30 0 243 235 0 278 13 89 29 40 196	0 0 5 0 7 384 67 0 37 70 25 18 20 81	0 0 0 6 4 114 114 148 3 10 18 4 4 4 13 26	0 0 7 20 74 16 23 0 34 7 7 8 46 24	15 0 0 8 43 98 75 21 0 111 0 3 0 146 19	11 41 9 4 41 58 86 7 11 16 5 6 26 77	5 34 10 70 39 29 77 46 33 21 2 42 23 55	6 10 11 134 100 67 47 368 24 39 5 10 32 37	8 2 12 151 186 239 80 16 56 43 10 4 39 52	5 0 13 288 491 537 175 40 90 99 24 17 76 61	16 0 14 415 659 785 277 1474 226 100 59 21 118 58	8 0 15 295 634 779 355 788 330 178 100 113 167 67	500 0 166 773 145 199 154 6500 217 155 198 216 194 186
2006 2007 2009 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981	0 0 0 1 5121 13023 4419 227 34891 13629 1328 663 2737 1017 3001	0 0 2 4223 5442 8293 2889 1568 2547 916 3707 3447 3933 5125 1484	0 0 0 748 0 2963 1122 1176 87 607 447 226 541 361 436	0 0 0 4 30 0 243 235 0 278 13 89 29 40 196 59	0 0 0 7 384 67 0 37 70 25 18 20 81 20	0 0 0 6 4 114 148 3 10 18 4 4 13 26 33	0 0 7 20 74 16 23 0 34 7 7 8 46 24 0	15 0 0 8 43 98 75 21 0 111 0 3 0 146 19 1	11 41 9 4 41 58 86 7 11 16 5 6 26 77 54	5 34 10 70 39 29 77 46 33 21 2 42 23 55 169	6 10 11 134 100 67 47 368 24 39 5 10 32 37 207	8 2 112 151 186 239 80 16 56 43 10 4 39 52 148	5 0 13 288 491 537 175 40 90 99 24 17 76 61 84	16 0 14 415 659 785 277 1474 226 100 59 21 118 58 69	8 0 15 295 634 779 355 788 330 178 100 113 167 67 72	500 0 166 7774 1455 1999 154 6500 2177 1555 1988 2166 1944 1866 1566
2006 2007 2009 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982	0 0 1 5121 13023 4419 227 34891 13629 1328 663 1563 2737 1017 3001 2708	0 0 2 4223 5442 8293 2889 1568 2547 916 3707 3447 3933 5125 1484 3009	0 0 0 3 748 0 2963 1122 1176 87 607 447 226 541 361 436 669	0 0 0 4 30 0 243 235 0 278 13 89 29 40 196 59 134	0 0 7 384 67 0 37 70 25 18 20 81 20 76	0 0 0 6 4 114 114 148 3 10 18 4 4 13 26 33 76	0 0 7 20 74 16 23 0 34 7 7 8 46 24 0 65	15 0 0 8 43 98 75 21 0 111 0 3 0 146 19 1 19	11 41 9 4 41 58 86 7 11 16 5 6 26 77 54 61	5 34 10 70 39 29 77 46 33 21 2 42 23 55 169 118	6 10 11 134 100 67 47 368 24 39 5 10 32 37 207 210	8 2 112 151 186 239 80 16 56 43 10 4 39 52 148 163	5 0 13 288 491 537 175 40 90 99 24 17 76 61 84 156	16 0 14 415 659 785 277 1474 226 100 59 21 118 58 69 53	8 0 15 295 634 779 355 788 330 178 100 113 167 67 72 47	500 0 166 777 145 199 154 6500 2177 155 198 216 194 186 156 562
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2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975 1976 1977 1978 1976 1977 1978 1979 1980 1981 1981 1984 1985 1984 1985	0 0 0 1 13023 4419 227 34891 13629 1328 663 1563 2737 1017 3001 2708 1640 941 741 963 2297 4783	0 0 2 4223 5442 8293 2889 1568 2547 916 3707 3447 3933 5125 1484 3009 2344 5570 5267 5764 12228 8903	0 0 0 2963 1122 1176 87 607 447 226 541 361 436 669 858 1089 5482 5250 7213 7322	0 0 0 4 4 30 243 235 0 278 13 89 29 40 196 59 134 185 304 86 678 2194 74	0 0 0 7 384 67 0 37 70 25 18 20 81 20 76 46 197 54 81 20 76 46	0 0 0 4 114 148 3 10 18 4 4 4 13 26 33 76 34 82 182 258 68 386	0 0 7 20 74 16 23 0 34 7 7 8 46 24 0 65 71 137 212 71 37 232	15 0 0 8 43 98 75 21 0 11 0 3 0 146 19 1 19 77 64 107 83 81 101	11 41 9 4 4 11 58 86 7 11 16 5 6 26 77 54 61 113 66 113 66 51 67 84	5 34 10 70 39 29 77 46 33 21 2 42 23 55 169 94 114 71 37 83 88	6 10 11 134 100 67 47 368 24 39 5 10 32 37 5 10 32 207 207 207 207 210 123 156 93 44 76 62	8 2 12 151 186 239 80 16 56 43 10 4 39 52 148 163 114 207 119 81 73 68	5 0 13 288 491 537 175 40 90 99 24 17 76 61 184 156 186 274 247 94 95 91	16 0 14 415 659 785 277 1474 226 100 59 21 118 58 69 21 118 58 260 325 53 260 325 297 131 140 108	8 0 15 295 634 779 355 788 330 178 100 113 167 72 47 233 307 383 307 383 184 144	500 0 166 777 145 1999 154 6500 217 155 198 216 198 216 194 1866 1566 560 1355 657 858 858 533 500 452
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2006 2007 2009 1970 1970 1972 1973 1974 1975 1975 1975 1975 1975 1975 1977 1978 1979 1980 1981 1982 1983 1984 1985 1985 1986 1987 1988 1989 1990	0 0 0 1 1 5121 13023 4419 227 34891 13629 1328 663 1563 2737 1017 3001 2708 1640 941 741 963 2297 4783 788 2954	0 0 2 4223 5442 8293 2889 1568 2547 916 3707 3447 3933 5125 1484 3009 2344 5570 5267 5764 12228 8903 12683 3475	0 0 0 2963 1122 1176 87 607 447 226 541 361 436 669 858 1089 5482 5250 7213 7322 1207 16956	0 0 0 4 30 0 243 235 0 278 13 89 29 40 196 59 134 185 304 86 678 2194 74 2042 1014	0 0 0 5 5 0 7 384 67 0 37 70 25 18 20 81 20 76 46 197 54 48 672 2189 1628 879	0 0 0 6 4 114 114 148 3 10 18 4 4 13 26 33 76 34 82 182 58 68 386 331 702	0 0 7 20 74 16 23 0 34 7 7 8 46 24 0 65 71 137 212 71 37 212 71 37 232 529 240	15 0 0 8 8 43 98 75 21 0 11 0 3 0 146 19 1 19 77 64 107 83 81 101 528 221	$\begin{array}{c} 11\\ 41\\ \hline \\ 9\\ 4\\ 41\\ 58\\ 86\\ 7\\ 11\\ 16\\ 5\\ 6\\ 26\\ 77\\ 54\\ 61\\ 113\\ 66\\ 51\\ 146\\ 113\\ 66\\ 51\\ 146\\ 275\\ 204\\ \end{array}$	5         34           10         70           39         29           77         46           33         21           2         23           55         169           118         94           114         71           37         88           127         203	6 10 11 134 100 67 47 368 24 39 5 10 32 37 207 210 123 156 93 44 76 62 124 106	8 2 12 151 186 56 43 39 52 148 163 10 4 39 52 148 163 114 207 119 81 73 68 164 124	5 0 13 288 491 175 40 90 99 24 17 76 61 84 156 61 84 274 247 95 91 129 100	16 0 14 415 659 277 1474 226 100 59 21 118 58 69 325 297 131 140 025 2297 131 140 108 144 143	8 0 15 295 634 779 355 788 330 178 100 113 167 67 72 233 307 383 184 144 114 1159 160	500 0 166 775 145 199 154 650 217 155 51 98 216 155 655 217 198 216 155 53 503 503 683 602
2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975 1976 1977 1978 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1985 1986 1987 1988 1989 1990	0 0 0 1 13023 4419 227 34891 13629 1328 663 1563 2737 1017 3001 2708 1640 941 741 963 2297 4783 788 2954 4069	0 0 2 4223 5442 8293 2889 1568 2547 916 3707 3447 3933 5125 1484 3009 2344 5570 5267 5764 12228 8903 12683 3475 13897	0 0 0 2963 1122 1176 87 607 447 226 541 361 436 669 858 1089 5482 5250 7213 7322 1207 16956 9479	0 0 0 4 30 0 243 235 0 278 13 89 29 40 196 59 134 185 304 196 59 134 185 304 74 2194 74 2042 1014 1744	0 0 0 5 0 7 384 67 0 37 70 25 18 20 76 46 197 54 48 672 189 1628 879 462	0 0 0 4 114 114 148 3 10 18 4 4 4 13 26 33 76 34 82 182 58 68 386 331 702 45	0 0 7 20 74 16 23 0 34 7 7 8 46 24 0 65 71 137 212 71 37 232 9 240 179	15 0 0 8 43 98 75 21 0 11 0 3 0 146 19 1 19 77 64 107 83 81 101 528 221 139	11 41 9 4 41 58 86 7 11 16 5 6 6 26 6 113 66 51 67 84 61 146 113 66 51 67 84 275 204 134	5 34 10 70 39 29 77 46 33 21 2 42 23 55 118 94 1118 94 117 83 86 127 203 213	6 10 11 134 100 67 47 368 24 39 5 10 32 37 207 210 123 156 6 23 44 76 62 124 106 322	8 2 12 151 151 239 80 16 56 43 10 4 39 52 148 163 114 207 52 148 163 114 207 119 81 73 68 81 64 124 364	5 0 13 288 491 537 175 40 90 99 24 17 76 61 84 156 61 84 156 61 88 4 156 274 94 95 91 129 91 000 285	16 0 14 415 659 785 2777 1474 226 59 21 118 58 69 53 260 325 53 260 325 297 131 140 108 144 143 2274	8 0 15 295 634 779 355 788 330 178 100 113 167 72 47 233 307 72 47 233 83 104 114 159 160 255	500 0 166 775 145 199 154 650 217 155 216 198 216 156 565 3 3 500 655 853 533 500 683 600 660
2006 2007 2009 Sport 1970 1971 1972 1973 1974 1975 1976 1977 1978 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1984 1985 1988 1989 1999 1999	0 0 0 1 13023 4419 227 34891 13629 1328 663 1563 2737 1017 3001 2708 1640 941 741 963 2297 4783 788 22954 4783 788	0 0 0 2 4223 5442 8293 2889 1568 2547 916 3707 3447 3933 5125 1484 3009 2344 5570 5267 5764 12228 8903 12683 3475 13897 6045 1016	0 0 0 2963 1122 1176 87 607 447 226 541 361 436 669 858 1089 5482 5250 7213 7322 1207 16956 9479 1471 3719	0 0 0 4 30 243 235 0 278 13 89 29 40 196 59 134 185 304 86 678 2194 74 2042 1014 1744 122 2182	0 0 0 5 7 384 67 0 37 70 25 18 20 76 46 197 54 48 672 189 1628 879 462 271 1111	0 0 0 6 4 114 114 148 3 10 18 4 4 4 13 26 33 76 34 82 182 58 68 386 331 702 45 56 1	0 0 7 20 74 16 23 0 34 7 7 8 46 24 0 65 71 137 212 71 37 232 529 240 179 35 273	15 0 0 8 43 98 75 21 0 11 0 3 0 146 19 1 19 77 64 107 83 81 101 528 221 139 287 442	11 41 9 4 4 11 58 86 7 11 16 5 6 26 77 54 61 113 66 113 66 51 67 84 275 204 134 262 193	5 34 10 70 39 29 77 46 33 21 2 42 23 55 169 94 114 71 37 83 86 127 203 213 213 213 213 213 213 213 213 213 21	6 10 11 134 100 67 47 368 24 39 5 10 32 37 207 207 207 207 207 207 210 123 156 62 124 106 242 173 245	8 2 12 151 186 239 80 16 56 43 10 4 39 52 148 163 114 207 119 81 73 68 164 124 364 287 191	5 0 13 288 491 537 175 40 90 99 24 17 76 61 184 156 186 274 247 95 91 129 100 285 273 139	16           0           14           415           659           21           118           58           200           325           297           131           140           108           144           433           274           1252           123	8 0 15 295 634 779 355 788 330 113 167 67 72 47 233 307 383 184 114 114 159 160 255 188 122	500 0 166 773 145 199 154 650 217 155 198 216 155 198 216 155 198 216 155 198 216 155 198 216 155 198 216 155 199 0 217 35 155 199 0 217 35 155 199 0 217 35 155 199 0 217 35 155 199 0 217 35 155 199 0 217 35 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 199 216 155 198 216 155 199 216 155 198 216 155 198 216 155 198 216 155 198 216 155 198 216 155 198 216 195 194 195 194 195 195 195 195 195 195 195 195 195 195
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Table A2 cont.

Traps	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1970	0	0	0	0	0	3	1	2	3	7	20	41	85	99	119	271
1971	0	0	5	17	5	17	7	4	1	2	8	25	40	72	59	159
1972	0	1	1	4	6	32	23	3	6	23	38	26	19	20	15	73
1973	0	0	0	0	0	0	0	0	0	13	28	124	128	115	104	100
1974	0	0	0	0	0	0	0	1	1	3	5	12	46	126	145	608
1975	0	0	0	0	1	1	2	3	0	0	1	5	14	31	40	341
1976	0	0	0	0	0	0	0	0	0	0	0	2	0	7	23	431
1977	0	0	0	0	0	0	3	20	142	343	716	591	264	31	0	0
1978	0	0	0	0	0	5	0	0	3	0	1	0	0	2	7	485
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	71
1980	0	0	0	0	0	1	4	5	4	7	2	3	4	3	4	92
1981	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	88
1982	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	149
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	17
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	45
1987	0	0	0	0	0	0	0	3	0	2	5	0	2	0	3	33
1988	0	0	0	0	0	0	0	3	0	2	4	0	2	0	3	27
1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1993	0	0	0	0	0	0	0	0	0	0	0	0	3	3	7	65
1994	0	0	0	0	0	0	0	0	1	0	3	1	3	7	12	185
1995	0	0	0	0	0	3	2	0	1	0	1	2	11	4	9	163
1996	0	0	0	0	1	0	0	1	3	2	12	12	26	26	22	170
1997	0	0	0	0	0	0	0	0	0	0	3	2	0	2	9	145
1998	0	0	0	0	0	0	0	0	0	4	2	12	18	18	34	129
1999	0	0	0	0	0	0	0	0	0	0	3	3	8	10	19	96
2000	0	0	0	0	0	0	0	0	0	0	0	1	3	2	4	37
2001	0	0	0	0	0	0	0	0	0	0	1	2	6	5	10	27
2002	0	0	0	0	0	0	6	43	43	10	12	13	13	12	7	5
2003	0	0	0	0	0	0	16	46	157	107	27	4	28	40	14	52
2004	0	0	0	5	1	2	4	0	11	15	11	33	46	16	6	5
2005	0	0	0	0	1	1	0	1	0	1	3	8	4	7	1	7
2006	0	0	0	0	0	1	0	2	1	2	2	0	0	0	1	5
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	9
2008	0	0	0	0	0	8	20	75	39	38	5	0	0	0	0	0
2009	0	0	0	0	5	22	1	10	8	3	11	7	8	5	6	30

Table A3: Commercial fleet catch-at-length used in the SCAL.

In the interests of keeping this document shorter, these data have not been listed below, but can be provided by the authors if required.

	CAN GLS W/O 2010	CAN SWNS	US RR<145	US RR 66- 114	US RR 115-144	US RR>195	US RR>177	JLL WEST (area 2)	Larval zero inflated	US PLL GOM 1-6	JLL GOM	Tagging
Units	Numbers	Numbers	Numbers	Numbers	Numbers	Numbers	Numbers	Numbers	Biomass	Numbers	Numbers	Numbers
1970	-	-	-	-	-	-	-	-	-	-	-	1065132
1971	-	-	-	-	-	-	-	-	-	-	-	1001624
1972	-	-	-	-	-	-	-	-	-	-	-	431955
1973	-	-	-	-	-	-	-	-	-	-	-	183616
1974	-	-	-	-	-	-	-	-	-	-	0.968	341589
1975	-	-	-	-	-	-	-	-	-	-	0.534	554596
1976	-	-	-	-	-	-	-	0.657	-	-	0.666	253265
1977	-	-	-	-	-	-	-	2.424	2.724	-	0.913	257385
1978	-	-	-	-	-	-	-	1.200	4.733	-	0.876	121110
1979	-	-	-	-	-	-	-	0.822	-	-	1.287	98815
1980	-	-	0.799	-	-	-	-	1.508	-	-	1.158	192541
1981	1.556	-	0.399	-	-	-	-	1.912	0.770	-	0.553	337995
1982	0.796	-	2.102	-	-	-	-	0.715	1.417	-	-	-
1983	2.472	-	1.114	-	-	2.805	-	0.313	1.073	-	-	-
1984 1985	1.112	-	-	-	-	1.246	-	0.958	0.393	-	-	-
1985	0.214 0.273	-	0.630 0.778	-	-	0.857 0.503	-	1.089 0.081	0.435	-	-	-
1980	0.275	-	1.219	-	-	0.503	-	0.081	0.435	3.255	-	-
1987	0.500	1.969	0.988	-	-	0.941	-	1.089	1.063	1.533	-	-
1989	0.704	2.639	0.988	-	-	0.763	-	0.910	0.762	2.440	-	-
1990	0.188	2.459	0.904	_	_	0.626	_	0.752	0.318	1.889	_	_
1991	0.935	1.337	1.261	_	_	0.820	-	0.752	0.387	3.256	_	_
1992	1.735	1.239	0.820	-	-	0.910	-	1.148	0.530	0.797	-	-
1993	1.229	0.619	-	1.304	1.291	-	0.668	1.138	0.486	0.452	-	-
1994	0.253	1.167	-	0.265	0.237	-	0.831	1.050	0.528	0.335	-	-
1995	0.909	0.963	-	1.008	0.263	-	1.250	0.788	0.327	0.310	-	-
1996	0.090	0.344	-	1.637	0.695	-	3.489	2.317	1.019	0.183	-	-
1997	0.139	0.240	-	2.541	0.267	-	1.324	1.453	0.416	0.332	-	-
1998	0.271	0.508	-	1.448	0.886	-	1.652	0.684	0.124	0.357	-	-
1999	0.527	0.909	-	1.188	1.049	-	1.932	0.744	0.528	0.612	-	-
2000	0.359	0.230	-	0.946	1.456	-	0.602	0.934	0.352	0.884	-	-
2001	0.340	0.633	-	0.471	1.678	-	1.388	0.597	0.413	0.503	-	-
2002	0.445	0.665	-	1.079	2.490	-	1.806	0.697	0.318	0.471	-	-
2003	0.881	1.440	-	0.474	0.534	-	0.387	0.679	0.784	0.862	-	-
2004	1.048	0.499	-	1.836	0.598	-	0.600	0.608	0.581	0.783	-	-
2005	1.686	0.592	-	1.638	0.784	-	0.501	0.732	0.236	0.590	-	-
2006	0.816	0.902	-	0.657	1.377	-	0.350	1.268	0.585	0.414	-	-
2007	1.520	0.725	-	0.584	1.410	-	0.270	1.950	0.265	0.559	-	-
2008	1.083	1.050	-	0.278	1.036	-	0.369	0.768	0.411	1.283	-	-
2009	2.574	1.026	-	0.320	0.521	-	0.244	1.864	0.650	1.018	-	-
2010	-	0.869	-	0.622	1.226	-	0.792	0.696	0.459	0.881	-	-
2011	4.870	0.973	-	0.704	1.203	-	0.544	2.967	0.844	-	-	-

# Table A4: CPUE (relative abundance) series used.

Table A5: Catches-at-age associated with the CPUE series used in the SCAA.

In the interests of keeping this document shorter, these data have not been listed below, but can be provided by the authors if required.

Table A6: Catches-at-length associated with the CPUE series used in the SCAL.

In the interests of keeping this document shorter, these data have not been listed below, but can be provided by the authors if required.

#### Appendix B - The Statistical Catch-at-Age Model

The text following sets out the equations and other general specifications of the SCAA followed by details of the contributions to the (penalised) log-likelihood function from the different sources of data available and assumptions concerning the stock-recruitment relationship. Quasi-Newton minimization is then applied to minimize the total negative log-likelihood function to estimate parameter values (the package AD Model Builder<sup>TM</sup> (Fournier *et al.*, 2011) is used for this purpose). The description below includes more options than used in this paper, but they have been included here for completeness as they may be used in later extensions.

## **B.1.** Population dynamics

#### B.1.1 Numbers-at-age

The resource dynamics are modelled by the following set of population dynamics equations:

$$N_{y+1,1} = R_{y+1}$$
(B1)

$$N_{y+1,a+1} = \left(N_{y,a} e^{-M_a/2} - \sum_f C_{y,a}^f\right) e^{-M_a/2} \qquad \text{for } 1 \le a \le m-2 \tag{B2}$$

$$N_{y+1,m} = \left(N_{y,m-1} e^{-M_{m-1}/2} - \sum_{f} C_{y,m-1}^{f}\right) e^{-M_{m-1}/2} + \left(N_{y,m} e^{-M_{m}/2} - \sum_{f} C_{y,m}^{f}\right) e^{-M_{m}/2}$$
(B3)

where

 $N_{y,a}$  is the number of fish of age *a* at the start of year *y* (which refers to a calendar year),

 $R_y$  is the recruitment (number of 1-year-old fish) at the start of year y,

 $M_a$  denotes the natural mortality rate for fish of age a,

 $C_{y,a}^{f}$  is the predicted number of fish of age *a* caught in year *y* by fleet *f*, and

*m* is the maximum age considered (taken to be a plus-group).

#### **B.1.2.** Recruitment

The number of recruits (i.e. new 1-year olds) at the start of year *y* is assumed to be related to the spawning stock size (i.e. the biomass of mature fish) at the mid-point of the preceding year by either a modified Ricker or a Beverton-Holt stock-recruitment relationship, allowing for annual fluctuation about the deterministic relationship:

for the modified Ricker:

$$R_{y} = \alpha B_{y-1}^{\mathrm{sp}} \exp\left[-\beta \left(B_{y-1}^{\mathrm{sp}}\right)^{\gamma}\right] e^{(\varepsilon_{y} - (\sigma_{\mathrm{R}})^{2}/2)}$$
(B4)

and for Beverton-Holt:

$$R_{y} = \frac{\alpha B_{y-1}^{\rm sp}}{\beta + B_{y-1}^{\rm sp}} e^{(\varsigma_{y} - (\sigma_{\rm R})^{2}/2)}$$
(B5)

where

 $\alpha$ ,  $\beta$  and  $\gamma$  are spawning biomass-recruitment relationship parameters,

- $B_{y}^{sp}$  is the spawning biomass in year y, computed as:

$$B_{y}^{\rm sp} = \sum_{a=0}^{m} f_{y,a} w_{y,a}^{\rm sp} N_{y,a} e^{-M_{a} \frac{T^{s}}{12}}$$
(B6)

where spawning for the stocks under consideration is taken to occur  $T^{s}$  months after the start of the year (here  $T^{s} = 6$ ) and some natural mortality has therefore occurred,

 $W_{y,a}^{sp}$  is the mass of fish of age *a* during spawning, and

 $f_{y,a}$  is the proportion of fish of age *a* that are mature.

## B.1.3. Total catch and catches-at-age

The total catch by mass in year *y* is given by:

$$C_{y} = \sum_{f} \sum_{a=0}^{m} w_{y,a}^{f} C_{y,a}^{f} = \sum_{f} \sum_{a=0}^{m} w_{y,a}^{f} N_{y,a} e^{-M_{a}/2} S_{y,a}^{f} F_{y}^{f}$$
(B7)

where

 $w_{y,a}^f$  denotes the mass of fish of age *a* landed in year *y* by fleet *f*,

 $C_{y,a}^{f}$  is the catch-at-age, i.e. the number of fish of age *a*, caught in year *y* by fleet *f*,

 $S_{y,a}^{f}$  is the commercial selectivity of fleet f (i.e. combination of availability and vulnerability to fishing gear)

at age *a* for year *y*; when  $S_{y,a} = 1$ , the age-class *a* is said to be fully selected, and

 $F_{v}^{f}$  is the proportion of a fully selected age class that is fished by fleet f.

The model estimate of the mid-year exploitable ("available") component of biomass for fleet f is calculated by converting the numbers-at-age into mid-year mass-at-age (using the individual weights of the landed fish) and applying natural and fishing mortality for half the year:

$$B_{y}^{f} = \sum_{a=0}^{m} w_{y,a}^{f} S_{y,a}^{f} N_{y,a} e^{-M_{a}/2} (1 - S_{y,a}^{f} F_{y}^{f}/2)$$
(B8)

#### **B.1.4.** Initial conditions

For the first year  $(y_0)$  considered in the model, the numbers-at-age are estimated directly for ages 1 to  $a^{est}$ , with a parameter  $\phi$  which mimicking recent average fishing mortality for ages above  $a^{est}$ , i.e.

$$N_{y_0,a} = N_{\text{start},a} \qquad \qquad \text{for } 1 \le a \le a^{est} \tag{B9}$$

and

$$N_{\text{start},a} = N_{\text{start},a-1} e^{-M_{a-1}} (1 - \phi S_{a-1}) \qquad \text{for } a^{est} < a \le m - 1 \tag{B10}$$

$$N_{\text{start},m} = N_{\text{start},m-1} e^{-M_{m-1}} (1 - \phi S_{m-1}) / (1 - e^{-M_m} (1 - \phi S_m))$$
(B11)

For the applications considered here however, the population starts at its pre-exploitation equilibrium level (K) with an equilibrium age-structure, with:

$$N_{\text{start},1} = K^{sp} \left/ \left[ \sum_{a=1}^{m-1} f_{\text{start},a} w^{sp}_{start,y} e^{-\frac{T_s}{12} \sum_{a'=1}^{a-1} M_{a'}} + f_{\text{start},m} w^{sp}_{start,m} \frac{e^{-\frac{T_s}{12} \sum_{a'=1}^{m-1} M_{a'}}}{1 - e^{-\frac{T_s}{12} M_m}} \right]$$
(B12)

#### B.2. The (penalised) likelihood function

The model can be fit to (a subset of) CPUE, and commercial catch-at-age or catch-at-length data to estimate model parameters (which may include residuals about the stock-recruitment function, facilitated through the incorporation of a penalty function described below). Contributions by each of these to the negative of the (penalised) log-likelihood ( $- \ln L$ ) are as follows.

#### B.2.1 CPUE relative abundance data

The likelihood is calculated assuming that an observed CPUE index for a particular fishing fleet is log-normally distributed about its expected value:

$$I_{y}^{i} = \hat{I}_{y}^{i} \exp\left(\varepsilon_{y}^{i}\right) \quad \text{or} \quad \varepsilon_{y}^{i} = \ln\left(I_{y}^{i}\right) - \ln\left(\hat{I}_{y}^{i}\right) \tag{B13}$$

where

 $I_y^i$  is the CPUE biomass or abundance index for year y for gear/flag combination i,

$$\hat{I}_{y}^{i} = \hat{q}^{i} \sum_{y,a}^{m} w_{y,a}^{i} S_{y,a}^{i} N_{y,a} e^{-M_{a}/2} (1 - S_{y,a}^{i} F_{y}^{i}/2)$$
 is the corresponding model estimate of biomass or

 $\hat{I}_{y}^{f} = \hat{q}^{f} \sum_{y,a}^{m} S_{y,a}^{f} N_{y,a} e^{-M_{a}/2} (1 - S_{y,a}^{f} F_{y}^{f}/2)$  is the corresponding model estimate of abundance,

 $\hat{q}^i$  is the constant of proportionality (catchability) for the CPUE series, and

$$\varepsilon_{y}^{i}$$
 from  $N(0, (\sigma^{CPUE})^{2})$ .

The contribution of the CPUE data to the negative of the log-likelihood function (after removal of constants) is then given by:

$$-\ln L^{\text{CPUE}} = \sum_{y} \left\{ \ln \left( \sqrt{\left(\sigma^{CPUE}\right)^2 + \left(\sigma^i_{Add}\right)^2} \right) + \frac{\left(\varepsilon^i_{y}\right)^2}{2\left[\left(\sigma^{CPUE}\right)^2 + \left(\sigma^i_{Add}\right)^2\right]} \right\}$$
(B14)

where

 $\sigma^{\scriptscriptstyle CPUE}$  is the standard deviation of the residuals for the logarithm of the indices,

 $\sigma_{Add}^{i}$  is the square root of the additional variance for the CPUE series, which can be estimated in the model fitting procedure but has been set to zero in the applications considered here.

 $\sigma^{{\scriptscriptstyle CPUE}}$  is estimated in the fitting procedure by its maximum likelihood value:

$$\sigma^{CPUE} = \sqrt{\sum_{i} \sum_{y} \left( \ln \left( I_{y}^{i} \right) - \ln \left( \hat{I}_{y}^{i} \right) \right)^{2} / \sum_{i} \sum_{y} 1}$$

The catchability coefficient  $q^{i}$  for CPUE index *i* is estimated by its maximum likelihood value:

$$\ell n \, \hat{q}^i = 1/n_i \sum_{y} \left( \ln I_y^i - \ln \hat{B}_y^{\text{ex}} \right) \tag{B15}$$

## B.2.3. Commercial catches-at-age

The contribution of the catch-at-age data to the negative of the log-likelihood function under the assumption of an "adjusted" lognormal error distribution is given by:

$$-\ln L^{CAA} = w_{CAA} \sum_{f} \sum_{y} \sum_{a} \left[ \ln \left( \sigma_{com}^{f} / \sqrt{p_{y,a}^{f}} \right) + p_{y,a}^{f} \left( \ln p_{y,a}^{f} - \ln \hat{p}_{y,a}^{f} \right)^{2} / 2 \left( \sigma_{com}^{f} \right)^{2} \right]$$
(B16)

where

 $p_{y,a}^{f} = C_{y,a}^{f} / \sum_{a'} C_{y,a'}^{f}$  is the observed proportion of fish caught in year y by fleet f that are of age a,  $\hat{p}_{y,a}^{f} = \hat{C}_{y,a}^{f} / \sum_{a'} \hat{C}_{y,a'}^{f}$  is the model-predicted proportion of fish caught in year y by fleet f that are of age a,

where

$$\hat{C}_{y,a}^{f} = N_{y,a} S_{y,a}^{f} F_{y}^{f} e^{-M_{a}/2}$$
and
(B17)

 $\sigma_{com}^{f}$  is the standard deviation associated with the catch-at-age data, which is estimated in the fitting procedure by:

$$\hat{\sigma}_{\rm com}^{f} = \sqrt{\sum_{y} \sum_{a} p_{y,a}^{f} \left( \ln p_{y,a}^{f} - \ln \hat{p}_{y,a}^{f} \right)^{2} / \sum_{y} \sum_{a} 1}$$
(B18)

The log-normal error distribution underlying equation (B16) is chosen on the grounds that (assuming no ageing error) variability is likely dominated by a combination of interannual variation in the distribution of fishing effort, and fluctuations (partly as a consequence of such variations) in selectivity-at-age, which suggests that the assumption of a constant coefficient of variation is appropriate. However, for ages poorly represented in the sample, sampling variability considerations must at some stage start to dominate the variance. To take this into account in a simple manner, motivated by binomial distribution properties, the observed proportions are used for weighting so that undue importance is not attached to data based upon a few samples only.

Commercial catches-at-age are incorporated in the likelihood function using equation (B16), for which the summation over age a is taken from age  $a_{\text{minus}}$  (considered as a minus group) to  $a_{\text{plus}}$  (a plus group).

The  $W_{CAA}$  weighting factor may be set to a value less than 1 to downweight the contribution of the catch-at-age data (which tend to be positively correlated between adjacent ages) to the overall negative log-likelihood compared to that of the CPUE data. Here,  $w_{CAA} = 0.1$ 

In instance where catch-at-age data corresponding to a particular CPUE index are available, the data are treated in exactly the same manner as described above, with a specific selectivity  $S_a^i$  estimated for that index.

#### **B.2.4.** Commercial catches-at-length

Commercial catches-at-length are incorporated in the likelihood function in the same manner as the catches-atage. When the model is fit to catches-at-length, selectivity is estimated as a function of length and then converted to selectivity-at-age:

$$S_{y,a}^{f} = \sum_{l} S_{y,l}^{f} A_{a,l}$$
(B19)

where  $A_{a,l}$  is the proportion of fish of age *a* that fall in the length group *l* (i.e.,  $\sum_{l} A_{a,l} = 1$  for all ages).

The matrix  $A_{a,l}$  is calculated under the assumption that length-at-age is normally distributed about a mean given by the von Bertalanffy equation, i.e.:

$$L_a \sim N[L_{\infty}(1 - e^{-\kappa(a - t_o)}); \theta_a^2]$$
(B20)

where

 $\theta_a$  is the standard deviation of length-at-age a, which is modelled to be proportional to the expected length-at-

$$\theta_a = \beta L_{\infty} \left( 1 - e^{-\kappa (a - t_o)} \right)$$
(B21)
with  $\theta$  fixed here to 0.2

with  $\beta$  fixed here to 0.2.

Furthermore, in the model fitting to CAL, the weights-at-age used to compute the CPUE indices are weighted by the selectivity for the corresponding fleet:

$$\widetilde{w}_{y,a}^{i} = \sum_{l} S_{y,l}^{f} w_{l} A_{a,l} / S_{a,l}^{i}$$
(B22)

 $\widetilde{W}_{y,a}^{i}$  is the selectivity-weighted mid-year weight-at-age *a* for fleet *f* and year *y*; and

 $W_l$  is the weight of fish of length *l*;

The following term (replacing equation B15) is then added to the negative log-likelihood:

$$-\ln L^{\text{CAL}} = w_{len} \sum_{f} \sum_{y} \sum_{l} \left[ \ln \left( \sigma_{len}^{f} / \sqrt{p_{y,l}^{f}} \right) + p_{y,l}^{f} \left( \ln p_{y,l}^{f} - \ln \hat{p}_{y,l}^{f} \right)^{2} / 2 \left( \sigma_{len}^{f} \right)^{2} \right]$$
(B23)

The  $w_{len}$  weighting factor may be set to a value less than 1 to downweight the contribution of the catch-atlength data (which tend to be positively correlated between adjacent length groups) to the overall negative loglikelihood compared to that of the CPUE data. Here,  $w_{len} = 0.05$ 

#### **B.2.5.** Stock-recruitment function residuals)

The stock-recruitment residuals are assumed to be log-normally distributed. Thus, the contribution of the recruitment residuals to the negative of the (now penalised) log-likelihood function is given by:

$$-\ell n L^{\text{pen}} = \sum_{y=y_1+1}^{y_2} \left[ \frac{g_y^2}{2\sigma_R^2} \right]$$
(B24)

where

 $\zeta_{y}$  is the recruitment residual for year y, which is estimated for year  $y_1$  to  $y_2$  (see equation (B4)),

 $\sigma_{\rm R}$  is the standard deviation of the log-residuals, which is input (here  $\sigma_{\rm R}$ =0.4).

#### **B.3.** Model parameters

The model input parameters are given in Table B1.**Table B1**: Input parameters (Length-weight, von Bertalanffy growth, maturity and natural mortality at age to age 15 from ICCAT, 2012). Length, weight and time units are cm, gm and yr respectively.

Model plus group	16
Length-weight	a=0.00002861, b=2.929
Von Bertalanffy growth	<i>K</i> =0.089, <i>L</i> <sub>inf</sub> =315, t <sub>0</sub> =-1.13
Maturity-at-age	100% maturity at age 9
Natural mortality	0.14 yr <sup>-1</sup>
Stock-recruitment	Beverton-Holt, $h=0.98$ , $\sigma_R=0.6$

# B.4.2. Fishing selectivity

For SCAA, the commercial fishing selectivities-at-age,  $S_{y,a}^{f}$ , are estimated separately for ages  $a_{\text{minus}}$  to  $a_{\text{plus}}$ . The selectivity is assumed to stay flat after  $a_{\text{plus}}$  if not otherwise specified. The selectivity is unchanged over a period, but can differ for each of specified different periods.

For SCAL, fishing selectivities-at-length are estimated rather than the selectivities-at-age. These are estimated separately for specified lengths from  $l_{\text{minus}}$  to  $l_{\text{plus}}$ , assuming linear changes from the lowest to the highest length for each length group. The selectivity is assumed to stay flat after  $l_{\text{plus}}$  if not otherwise specified. The selectivity can differ over fixed periods. Details of the fishing selectivities used for both SCAA and SCAL are shown in Table B2.

	1	SCAA-	-fixedS		SCAA	-estS			SC.	AL		
	a <sub>minus</sub> (yr)	a <sub>plus</sub> (yr)	Number of parameters estimated	a <sub>minus</sub> (yr)	a <sub>plus</sub> (yr)	Number of parameters estimated	a <sub>minus</sub> (yr)	a <sub>plus</sub> (yr)	l <sub>minus</sub> (cm)	l <sub>plus</sub> (cm)	Number of parameters estimated	Comments
Commercial fleet:												
Longline	1	16	14	1	16	15			50	260	14	
Other	7	16	8	7	16	9			150	285	9	
Purse seine	1	6	5	1	6	5			40	115	5	First selectivity period: 1950-1983
	8	16	7	8	16	8			160	250	6	Second selectivity period: 1984-present
Sport	1	16	14	1	16	15			35	260	15	
Traps	5	16	10	5	16	11			150	285	9	
CPUE indices:												
CAN GLS W/O 2010	13*	16	-	13*	16	3	13*	16			3	
CAN SWNS	8*	14*	-	8*	14*	6	8*	14*			6	
US RR<145	1*	5*	-	1*	5*	4			55	135	5	
US RR 66-114	2*	3*	-	2*	3*	1			67	114	3	
US RR 115-144	4*	5*	-	4*	5*	1			115	144	2	
US RR>195	10*	16	-	10*	16	6			196	280	6	
US RR>177	8*	16	-	8*	16	8			178	280	7	
JLL WEST (area 2)	2*	16	-	2*	16	14			80	270	13	
Larval zero inflated	9*	16	-	9*	16	-	9*	16			-	Assume spawning biomass, i.e. age 9+
US PLL GOM 1-6	9*	16	-	9*	16	7	9*	16			7	
JLL GOM	9*	16	-	9*	16	7	9*	16			7	
Tagging	1*	3*	-	1*	3*	-	1*	3*			-	Flat selectivity for ages 1 to 3

 Table B2: Details of the selectivities estimated.