

Atlantic Billfish Fishery Management Plan Amendment

APPENDICES

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Appendix A. Billfish Advisory Panel Members

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Appendix B. ICCAT Recommendations

I. 1997 ICCAT Recommendation

REPORT OF PANEL 4
1997 COMMISSION MEETING
November 21, 1997 (12:28 am)

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DOC # 71

RECOMMENDATION BY ICCAT REGARDING ATLANTIC BLUE MARLIN AND ATLANTIC WHITE MARLIN

RECOGNIZING that the objective of ICCAT is to maintain populations of tunas and tuna-like species, including Atlantic blue marlin and Atlantic white marlin, at levels that will produce maximum sustainable yield (MSY) for food and other purposes;

EXPRESSING CONCERN that the SCRS has estimated that Atlantic blue marlin biomass is 25% of the MSY level, and that Atlantic white marlin biomass is at 23% of the MSY level;

NOTING that the current stock assessment is derived in part from problematic data as indicated in the SCRS report;

CAREFULLY REVIEWING projections for blue marlin and white marlin indicating that reductions in fishing mortality are necessary to avoid further declines in the stocks and to begin rebuilding these stocks;

RECOGNIZING that rebuilding blue marlin and white marlin stocks will be beneficial to all parties fishing on these stocks, as they are a source of food and recreational activity for many countries;

THE INTERNATIONAL COMMISSION FOR THE CONSERVATION OF ATLANTIC TUNAS (ICCAT) RECOMMENDS THAT:

All contracting and Non-contracting Parties, Entities, and Fishing Entities

1. Reduce, starting in 1998, blue marlin and white marlin landings by at least 25% for each species from 1996 landings, such reduction to be accomplished by the end of 1999.
2. Promote the voluntary release of live blue marlin and white marlin.
3. Advise ICCAT annually of measures in place or to be taken that reduce landings of marlins or fishing effort in the commercial and recreational fisheries that interact with blue marlin and white marlin.

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4. Provide all base data requested by the SCRS to improve stock assessment and work to improve current monitoring, data collection and reporting procedures in all their fisheries. In 1999, the SCRS shall conduct blue marlin and white marlin stock assessments and, at the 1999 Commission meeting, the Commission shall review the stock assessment and recommend appropriate management measures, if necessary.
 5. The provisions of Section 1 shall not apply to small-scale artisanal fisheries, i.e., those small-scale fisheries for subsistence purposes, including sale to local markets.

The ICCAT Secretariat shall inform all Non-Contracting Parties, Entities, and Fishing Entities of this recommendation and encourage them to cooperate with these measures.

II. 1998 ICCAT Recommendation

REPORT OF PANEL 4
1998 COMMISSION MEETING

RECOMMENDATION BY ICCAT REGARDING ATLANTIC BILLFISH

EXPRESSING CONCERN that the Commission's Standing Committee on Research and Statistics (SCRS) estimated in 1996 the biomass of Atlantic blue marlin to be 25% of that necessary to produce MSY and the biomass of Atlantic white marlin to be 23% of that necessary to produce MSY;

BEING AWARE that the 1996 stock assessments were derived in part from problematic data as noted in the SCRS Report;

RECOGNIZING that all Contracting Parties, non-contracting parties, entities or fishing entities will reduce landings of Atlantic blue marlin and Atlantic white marlin by at least 25% for each species from 1996 landings by the end of 1999;

NOTING that such reductions may not be evident in data reported to the SCRS until the year 2000 or thereafter;

RECALLING that the Commission last conducted an assessment of western Atlantic sailfish in 1993 and eastern Atlantic sailfish in 1997;

ALSO NOTING that the Commission will need information to develop long term rebuilding plans for any stocks that are identified as over-exploited by the SCRS; and

THE INTERNATIONAL COMMISSION FOR THE CONSERVATION

OF ATLANTIC TUNAS (ICCAT) RECOMMENDS THAT:

1. The landings of blue marlin and white marlin by each Contracting Party, non-contracting party, entity, and fishing entity in the year 2000 must be no more than the levels of landings of blue marlin and white marlin required to be achieved by the end of 1999.
2. The SCRS postpone the assessments of Atlantic blue marlin and Atlantic white marlin scheduled to be conducted in 1999 until the year 2000. In 2001, the SCRS shall conduct assessments of western Atlantic sailfish and eastern Atlantic sailfish. If any stocks are identified as over-exploited based on the new assessments, the SCRS will develop different stock recovery scenarios to levels that support MSY if the SCRS considers the data sufficient to do so. Contracting Parties, non-contracting parties, entities, and fishing entities shall undertake to provide the best available Task I and Task II data that will enable the SCRS to accomplish these analyses. All Contracting Parties, non-contracting parties, entities, and fishing entities shall report sailfish and spearfish data separately and if feasible provide historical data for those species as well.

Appendix C. Reported Catches of Atlantic Billfish by Country and Year

Table 1. Atlantic blue marlin catches from the north and south Atlantic Ocean (1963 to 1996)¹

Country/Year	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
North Atlantic	5141	4809	3682	2040	1173	1381	1601	1845	2150	1315	1616	1916	2076	1366	1255	976	897
Barbados	0	0	0	0	0	0	0	0	0	0	0	183	150	120	81	72	51
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	5	2
Canada-Jpn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China-Taiwan	27	8	2	34	131	374	348	369	193	300	155	183	105	169	64	81	51
Cuba	123	128	144	91	223	167	122	108	149	67	223	516	594	250	220	97	156
Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Granada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan	4759	4434	3330	1677	485	474	658	758	1223	335	229	267	551	260	118	54	68
Korea	0	1	4	46	66	93	214	368	221	215	457	385	304	174	307	185	67
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nether-Antill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
Panama	0	0	0	0	0	0	0	0	0	10	208	62	44	47	87	42	6
Portugal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senegal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Vincent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trin & Tabago	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USA	128	161	163	149	197	168	207	204	179	191	209	234	241	265	295	295	312
USSR	0	0	1	1	3	3	3	2	3	7	10	1	3	0	1	1	0
Ukrain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Venezuela	104	77	38	42	68	102	49	36	182	190	125	85	83	79	80	94	134
South Atlantic	3896	3201	2473	1819	1067	1134	1490	1019	1217	1051	1561	1100	1109	944	792	530	504
Benin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	12	12	12	12	6	15	18	39	14	17	4	15	15	29	65	24	30
Brazil-Barb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil-Hond.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

¹1997 was not included in this table due to incomplete reporting to SCRS.

Brazil-Jpn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	4
Brazil-Tai w.	0	0	0	0	0	0	0	0	0	0	0	0	0	12	35	0	0
Brazil-USA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China-Taiwan	21	5	2	35	160	429	1016	560	742	628	537	369	422	240	107	177	139
Ivory Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cuba	22	26	32	27	221	113	43	41	17	22	75	170	195	159	100	113	180
Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ghana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan	3841	3156	2421	1693	588	472	302	247	172	85	117	17	57	4	17	15	66
Korea	0	1	3	47	79	93	98	120	258	251	532	449	354	392	356	140	78
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0	0	0	12	244	72	51	107	103	32	7
USA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USSR	0	1	3	5	13	12	13	12	14	36	52	8	15	1	9	4	0
TOTAL	9037	8010	6155	3859	2240	2515	3091	2864	3367	2366	3177	3016	3185	2310	2047	1506	1401

Table 1 Continued, 1980 to 1996.

Country/Year	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
North Atlantic	1084	1296	1650	1214	1378	1566	1069	836	903	1556	1942	1421	1081	1234	1609	1448	1870
Barbados	73	117	99	126	126	10	14	13	46	3	18	12	18	21	19	31	25
Bermuda	4	1	2	7	8	9	11	6	8	15	17	18	19	11	15	15	15
Canada-Jpn	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
China-Taiwan	160	98	100	125	102	148	117	52	26	11	937	716	336	281	272	187	257
Cuba	162	178	318	273	214	246	103	68	94	74	112	127	135	38	50	50	50
Spain	0	0	0	0	3	4	1	0	2	23	2	4	8	0	0	0	2
Granada	1	1	12	6	8	11	36	33	34	40	52	64	52	58	52	50	26
Japan	193	332	637	192	351	409	174	78	206	593	250	145	193	207	532	496	794
Korea	48	71	19	43	110	154	36	13	14	252	240	34	11	2	16	16	41
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	3	13	13	13
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	57	100	100	100
Nether-Antill	50	50	50	50	50	50	50	50	50	50	50	40	40	40	40	40	40
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Portugal	0	0	1	2	1	8	12	8	2	1	1	4	2	15	11	10	7
Senegal	0	0	0	0	0	0	0	0	0	1	1	5	0	0	5	5	5

St. Vincent	0	0	0	0	0	0	0	0	0	1	0	0	1	2	2	2	0
Trin & Tabago	0	0	0	3	8	3	17	2	0	28	4	6	4	226	150	150	150
USA	312	342	329	215	280	295	273	429	345	315	188	175	197	207	199	186	232
USSR	0	0	0	0	0	0	7	23	0	0	0	0	0	0	0	0	0
Ukraine	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0
Venezuela	81	106	83	172	117	219	218	60	76	149	70	56	65	66	133	97	113
South Atlantic	500	438	832	533	1086	1473	773	1080	1641	2498	2362	2547	1706	1751	2197	2128	2369
Benin	0	6	8	0	9	10	7	4	12	0	6	6	6	6	0	0	0
Brazil	14	23	16	12	12	8	18	25	30	31	21	18	16	20	23	54	82
Brazil-Barb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9
Brazil-Hond.	0	0	0	0	0	0	0	0	0	0	0	0	2	1	6	5	4
Brazil-Jpn	9	5	14	15	20	25	28	26	44	29	31	18	8	11	11	15	0
Brazil-Tai w.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	0
Brazil-USA	0	0	0	0	0	0	0	0	0	0	0	25	99	115	32	102	231
China-Taiwan	129	104	150	47	70	165	98	265	266	462	767	956	488	404	391	280	386
Ivory Coast	0	0	0	0	100	100	100	100	88	65	72	78	58	110	153	144	144
Cuba	187	108	118	123	159	205	111	137	191	77	90	62	69	0	0	0	0
Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	8
Ghana	0	0	0	0	0	0	0	0	0	430	324	126	123	236	441	471	422
Japan	115	136	495	248	482	691	335	362	617	962	967	755	824	719	991	913	874
Korea	46	55	31	88	234	262	60	139	361	437	84	503	13	11	40	40	103
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	117	100	100	100
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
USSR	0	1	0	0	0	7	16	22	32	5	0	0	0	0	0	0	0
TOTAL	1584	1987	2763	1892	2664	3239	2042	2116	2744	4254	4504	4168	2987	3185	4006	3776	4439

Table 2. Reported catches (in mt) of Atlantic white marlin by area and country, 1963 to 1996 (SCRS 1997)².

Country/Year	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
North Atlantic	914	1694	2127	1798	588	692	1215	1055	1547	1208	1010	1222	1129	1052	501	428	482
Barbados	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada-Jpn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China-Taiwan	4	3	2	32	47	58	135	104	178	244	135	252	125	142	44	79	62
Cuba	35	45	69	118	127	103	58	61	45	34	112	256	294	68	67	43	68
Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan	754	1493	1913	1417	174	273	451	419	915	339	328	381	404	540	80	27	42
Korea	0	1	1	51	44	52	204	340	219	213	106	90	71	64	71	33	16
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0	0	0	10	48	14	10	17	20	8	1
St. Vincent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USA	64	70	76	76	81	87	76	104	95	99	104	108	107	109	109	109	110
USSR	0	0	0	0	1	1	1	0	1	1	2	0	1	0	0	0	0
Venezuela	57	82	66	104	114	118	290	27	94	268	175	212	117	112	110	129	183
South Atlantic	1700	2041	2779	1714	838	1355	1054	1088	713	1072	849	538	616	767	624	522	534
Argentina	0	0	0	0	3	14	0	0	20	100	57	0	2	2	2	0	0
Brazil	17	17	17	17	9	21	24	54	17	33	18	32	32	58	25	29	21
Brazil-Barb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil-Hond.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil-Jpn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	227	146	112
Brazil-Korea	0	0	0	0	0	0	0	0	0	0	0	0	0	10	23	0	0
Brazil-Taiw.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil-USA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China-Taiwan	10	3	2	29	134	327	448	508	260	469	464	285	382	377	119	198	155
Cuba	9	17	33	23	67	15	7	8	4	6	21	48	55	38	57	127	205

²White marlin catches for 1997 were not included due to incomplete reporting.

Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ghana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Japan	1664	2002	2718	1585	494	815	392	284	65	101	27	9	14	3	26	14	15
Korea	0	2	7	58	125	157	177	230	341	332	165	139	109	220	111	5	24
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0	0	0	16	75	22	16	59	31	1	2
USSR	0	0	2	2	6	6	6	4	6	15	22	3	6	0	3	2	0
Uruguay	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2614	3735	4906	3512	1426	2047	2269	2143	2260	2280	1859	1760	1745	1819	1125	950	1016

Table 2 Continued, for 1980 to 1996.

Country/Year	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
North Atlantic	521	789	670	1347	740	966	908	648	416	375	395	217	485	435	605	538	443
Barbados	0	0	0	0	0	0	0	0	117	11	39	17	24	29	26	43	15
Bermuda	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1
Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0
Canada-Jpn	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
China-Taiwan	105	174	134	203	96	128	319	153	0	4	85	13	92	123	270	181	113
Cuba	70	189	205	728	241	296	225	30	13	21	14	0	0	0	0	0	0
Spain	0	0	0	0	9	14	0	0	24	13	4	2	10	0	19	0	10
Japan	99	118	84	27	52	45	56	60	68	73	34	45	180	33	41	31	81
Korea	18	49	12	6	18	147	37	2	2	82	39	1	9	4	23	3	7
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	8	0
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	46	50	50	50
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Vincent	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
USA	116	117	122	148	168	181	119	247	149	123	100	95	96	79	55	109	70
USSR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Venezuela	113	142	113	234	155	155	151	154	42	47	79	43	73	117	110	110	96
South Atlantic	422	415	442	319	471	829	680	879	920	1408	1196	1334	813	937	1293	929	1065
Argentina	0	0	0	0	0	4	4	0	0	8	9	6	0	0	0	0	0
Brazil	32	96	20	56	53	51	104	62	114	173	164	281	119	77	72	63	51
Brazil-Barb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4

Brazil-Hond.	0	0	0	0	0	0	0	0	0	0	0	1	8	7	6	4	5
Brazil-Jpn	26	4	56	25	8	36	39	31	35	31	41	22	2	10	6	0	0
Brazil-Korea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Brazil-Tai w.	0	0	0	0	0	0	0	0	0	0	0	73	82	207	6	36	12
Brazil-USA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
China-Taiwan	145	136	227	87	124	172	196	613	565	979	810	790	506	493	1080	726	453
Cuba	212	116	45	112	153	216	192	62	24	22	6	10	10	0	0	0	0
Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	406
Ghana	0	0	0	0	0	0	22	6	88	68	31	17	14	22	1	2	1
Japan	7	25	27	17	24	81	73	74	76	73	92	77	68	49	51	26	28
Korea	0	36	57	9	44	225	34	25	17	53	42	56	1	4	20	20	52
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	68	50	50	50
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USSR	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uruguay	0	1	10	13	65	44	16	6	1	1	1	1	3	0	0	0	0
TOTAL	943	1204	1112	1666	1211	1795	1588	1527	1336	1783	1591	1551	1298	1372	1898	1467	1508

Table 3. Reported catches (in mt) of Atlantic sailfish and spearfish by area and country, 1963 to 1996 (SCRS 1997).

Country/Year	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
West Atlantic	489	945	1536	1071	727	1280	1094	1830	1603	1045	779	873	792	827	932	795	903
Aruba	0	0	0	0	0	0	0	0	0	0	0	10	10	20	20	30	30
Barbados	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	46	46	46	46	23	57	27	21	43	64	37	78	76	176	246	214	175
Brazil-Barb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil-Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil-Hond.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil-Jpn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	26
Brazil-Korea	0	0	0	0	0	0	0	0	0	0	0	0	0	10	41	0	0
Brazil-Tai w.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China-Taiwan	0	0	1	20	106	86	179	111	170	17	107	80	28	126	5	10	18
Cuba	13	29	59	44	0	258	19	58	30	17	58	133	152	0	91	51	151
Domin. Reb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grenada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	37	40
Japan	240	655	1140	608	274	422	228	499	321	132	78	118	112	133	23	9	20
Korea	0	2	6	87	0	160	316	453	446	433	96	81	63	14	65	14	19
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neth-Antil.	0	0	0	0	0	0	0	28	28	28	28	28	28	28	28	21	21
Panama	0	0	0	0	0	0	0	0	0	20	44	13	9	0	18	3	2
St. Vincent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trin & Tabago	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USA	157	173	188	194	201	207	214	220	227	233	240	248	254	261	308	308	308
USSR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Venezuela	33	40	96	72	123	90	111	440	338	101	91	84	60	59	56	66	93
East Atlantic	505	536	1383	1350	1167	1299	1195	857	1119	1375	859	3437	5081	5305	1144	2142	2881
TOTAL	998	1483	2919	2421	1894	2579	2289	2687	2722	2420	1638	4310	5873	6132	2076	2937	3784

Table 3 Continued, sailfish and spearfish catches for 1980 to 1996.

Country/Year	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
West Atlantic	907	904	1023	773	1090	1058	1043	954	905	755	1007	833	1048	1088	1036	853	886
Aruba	30	30	30	30	30	30	30	23	20	16	13	9	5	10	10	10	10
Barbados	0	0	0	0	0	0	0	0	0	69	45	29	42	50	46	74	25
Benin	0	36	48	0	53	50	25	32	40	8	20	21	20	21	20	20	0
Brazil	219	64	145	53	120	185	290	170	146	146	299	82	99	93	103	180	263
Brazil-Barb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Brazil-Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Brazil-Hond.	0	0	0	0	0	0	0	0	0	0	0	0	5	6	2	1	2
Brazil-Jpn	12	0	8	7	1	2	2	4	6	1	2	0	0	0	0	10	0
Brazil-Korea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil-Taiw.	0	0	0	0	0	0	0	0	0	0	0	8	247	144	23	54	39
China-Taiwan	36	81	22	31	45	39	64	31	300	171	83	73	33	223	233	38	5
Cuba	119	134	181	28	169	130	50	171	78	55	126	83	70	0	0	0	0
Domin. Reb.	0	0	22	50	49	46	18	40	44	44	40	31	98	50	90	90	90
Grenada	31	36	27	37	66	164	211	104	114	98	218	316	310	246	151	119	56
Japan	22	44	135	22	34	38	28	6	22	22	25	73	1	2	8	2	2
Korea	51	41	19	0	52	72	14	1	0	17	25	0	3	0	8	8	22
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	2	19	19	0
NEI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	31	30	30	30
Neth-Antil.	21	21	21	21	21	10	10	10	10	10	10	10	10	15	15	15	15
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Vincent	0	0	0	0	0	0	0	0	0	0	2	1	4	4	4	2	1
Trin & Tabago	0	0	0	64	58	14	25	35	24	11	9	4	4	55	100	100	100
USA	308	308	308	311	311	197	199	242	75	59	66	69	51	72	74	39	72
USSR	0	37	0	0	0	0	0	5	4	4	0	0	0	0	0	0	0
Venezuela	58	72	57	119	81	81	77	80	22	24	24	24	46	64	100	42	148
East Atlantic	1667	1554	2307	3177	2085	1914	1677	2135	1585	1217	1702	1279	1531	2162	1181	1657	1332
TOTAL	2574	2458	3330	3961	3175	2972	2774	3164	2500	2012	2710	2112	2579	3372	2255	2545	2249

Appendix D. Tournament Registration Form

Appendix D. Tournament Reporting Form

***** These forms are unavailable on line. If you need a copy, please contact Karyl.Brewster-Geisz@noaa.gov.***

Appendix E. Comments and Responses - *Appendix E is available separately.*