St. Thomas/St. John Draft Actions and Alternatives.

Scoping Meetings
April 2014
Table of Contents

List of Tables ................................................................................................................................................. 2
List of Figures ................................................................................................................................................ 2

Action 1. Identify Fishery Management Units (FMUs) to be Included in the St. Thomas/St. John Fishery Management Plan (FMP). ............................................................................................................. 3

Action 2. Establish Management Reference Points for FMUs in the St. Thomas/St. John Fishery Management Plan (FMP). ......................................................................................................................... 6

Action 3. Identify/Describe Essential Fish Habitat (EFH) for new species in the St. Thomas/St. John FMP. .......................................................................................................................................................... 8

References .................................................................................................................................................... 9

List of Tables

Table 1.1. Management Reference Points or Proxies for all Caribbean Managed Species selected by the Council in the 2010 and 2011 Caribbean Annual Catch Limit Amendments (CFMC 2011a, b). ................... 7

List of Figures

Figure 1.1. Mean historical (2000-2012) commercial landings (lbs) in St. Thomas/St. John for FMUs currently managed by the Caribbean Council. ................................................................................................................................. 4

Figure 1.2. Mean historical (2000-2012) commercial landings (lbs) in St. Thomas/St. John for species not currently managed by the Caribbean Council. ............................................................................................................. 5
St. Thomas/St. John-Draft Actions and Alternatives

Action 1. Identify Fishery Management Units (FMUs) to be Included in the St. Thomas/St. John Fishery Management Plan (FMP).

**Alternative 1.** No action. The St. Thomas/St. John FMP is composed of all species within the FMUs historically managed under the Spiny Lobster FMP, Reef Fish FMP, Queen Conch FMP, and the Corals and Reef Associated Plants and Invertebrates FMP.

**Alternative 2.** Include in the St. Thomas/St. John FMP species with available landings information from the Southeast Fisheries Science Center. In addition, prohibited harvest species in the current Reef Fish FMP, Queen Conch FMP, and the Corals and Reef Associated Plants and Invertebrates FMP will be included.

**Alternative 3.** Include in the St. Thomas/St. John FMP only those species with annual average landings equal to or greater than X pounds (Figure 1.1. through Figure 1.2.). In addition, prohibited harvest species in the current Reef Fish FMP, Queen Conch FMP, and the Corals and Reef Associated Plants and Invertebrates FMP will be included.

**Alternative 4.** Include species in the St. Thomas/St. John FMP that meet a pre-determined set of criteria established in consultation with the Southeast Fisheries Science Center and the Caribbean Council Scientific and Statistical Committee.

Discussion: **Alternative 1** would transfer all species within the existing FMUs from the current species-based FMPs to the St. Thomas/St. John FMP (i.e., corals and reef associated plants and invertebrates, queen conch, parrotfish, snapper, grouper, angelfish, boxfish, goatfishes, grunts, wrasses, jacks, scups and porgies, squirrelfish, surgeonfish, triggerfish and filefish, spiny lobster, tilefish, and aquarium trade species). No additional species would be added to the St. Thomas/St. John FMP. **Alternative 2** would include any species with available landings information provided by the Southeast Fisheries Science Center (e.g., dolphinfish, ballyhoo, crabs, octopus, snappers, groupers) regardless if currently included in any of the current FMPs. The St. Thomas/St. John FMP would also include species prohibited for harvest in the current FMPs. **Alternative 3** would include species within the FMUs with average annual landings, based on a pre-determined set of years (e.g., average annual landings based on the longest year sequence of most reliable landings data or average annual landings based on the most recent five years of available landings data) that equal or exceed a pre-determined minimum number of pounds. In addition, species for which harvest is prohibited would also be included in the new plan. For example, the Council could establish a limit of 20,000 pounds and only include species within the FMUs with average landings higher than this limit. In this example, FMUs such as angelfish, squirrelfishes, queen conch, wrasses, and goatfishes would not be included in the new St. Thomas/St. John FMP (Figure 1.1.). In addition, species
not currently managed by the Council, such as tuna, would be added, individually, or within the context of a newly developed FMU if their commercial landings exceed the 20,000 pound limit during a pre-determined set of years (Figure 1.2.). The choice of minimum average landings would be made by the Southeast Fisheries Science Center in consultation with the Council and its Scientific and Statistical Committee. Alternative 4 would include any species that meet pre-determined set of criteria established by the Council in collaboration with the Southeast Fisheries Science Center and the Caribbean Council’s Scientific and Statistical Committee. Criteria used to determine if a species is included or excluded in the new St. Thomas/St. John FMP could include biology, habitat, average historical landings during a pre-determined set of years, economic importance, depth distribution, and/or range of the species, among others.

Figure 1.1. Mean historical (2000-2012) commercial landings (lbs) in St. Thomas/St. John for FMUs currently managed by the Caribbean Council.
Figure 1.2. Mean historical (2000-2012) commercial landings (lbs) in St. Thomas/St. John for species not currently managed by the Caribbean Council.

*Tuna landings cannot be separated by species for years between 2000 through 2010. These years, landings of tuna species were reported under the general category of ‘tuna’. However, based on a proportion of catch by tuna species in years 2011 and 2012, most of the tuna landings (percentages of total landings between 2011-2012) are made of little tunny (68%), followed by yellowfin (14%), balckfin (12%), skipjack (2.5%), bigeye (2%), and very few albacores (0.5%).
Action 2. Establish Management Reference Points for FMUs in the St. Thomas/St. John Fishery Management Plan (FMP).

**Alternative 1.** No action. Retain the existing management reference points or proxies for FMUs currently managed by the Council.

**Alternative 2.** Revise existing management reference points or proxies for FMUs managed by the Council.

**Alternative 3.** Establish management reference points or proxies for new species added to the St. Thomas/St. John FMP.

Discussion: Selection of **Alternative 1** would retain the existing management reference points or proxies for FMUs currently managed by the Council. However, this alternative would not provide the option to the Council to establish reference points or proxies for any new FMU added to the St. Thomas/St. John FMP. Selection of **Alternative 2** would revise management reference points or proxies for the currently established FMUs. **Alternative 3** would establish management reference points or proxies for new species added to the St. Thomas/St. John FMP. Both **Alternative 2** and **Alternative 3** would require the Council to select a year sequence of landings data as the basis to revise or establish the management reference points or proxies. The alternatives selected by the Council in the 2010 and 2011 Caribbean Annual Catch Amendments could be used as baselines when revising or establishing the management reference points or proxies for the FMUs in the St. Thomas/St. John FMP (Table 1.1.). In addition, selection of **Alternative 3** would allow the Council to revise the existing management reference points for the currently managed FMUs.
Table 1.1. Management Reference Points or Proxies for all Caribbean Managed Species selected by the Council in the 2010 and 2011 Caribbean Annual Catch Limit Amendments (CFMC 2011a, b).

<table>
<thead>
<tr>
<th>Species</th>
<th>MSY Proxy</th>
<th>OFL</th>
</tr>
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<tbody>
<tr>
<td><strong>Snapper, Grouper, Parrotfish and Queen Conch FMUs (CFMC 2011a)</strong></td>
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</tbody>
</table>
| Puerto Rico (PR): snapper, grouper, parrotfish | **MSY proxy** = Commercial: average annual landings from 1999-2005  
Recreational: average annual catch from MRFSS during 2000-2005 | **OFL** = **MSY proxy**: overfishing occurs when annual catches exceed the OFL, unless NMFS' Southeast Fisheries Science Center (in consultation with the Council and its SSC) determines the overage occurred because data collection/monitoring improved, rather than because catches actually increased. |
| Puerto Rico: queen conch | **MSY proxy** = average annual commercial landings from 1999-2005 | | |
| St. Croix (STX) and St. Thomas/St. John STT/STJ: snapper, grouper, parrotfish, and queen conch | **MSY proxy** = average annual commercial landings from:  
1999-2005 for St. Croix  
2000-2005 for St. Thomas/St. John | | |
| **OFL** | **All FMUs, for PR, STT/STJ, and STX** | | |
| Parrotfish | **ABC** = Puerto Rico = 80,000 pounds (lbs)  
St. Croix = 300,000 lbs  
St. Thomas/St. John = 50,000 lbs | | |
| Queen Conch | **ABC** = 50,000 lbs for St. Croix  
= 0 lbs for St. Thomas/St. John  
= 0 lbs for Puerto Rico | | |
| Snapper and grouper (PR, STT/STJ, and STX) | **ABC** = **OFL** | | |
| **OY and ACL** | **Snapper and grouper (PR, STT/STJ, and STX)** | **OY** = **ACL** = \([OFL \times (0.85)]\)  
St. Croix: an additional 5.8822% reduction | |
| Parrotfish (PR, STT/STJ, and STX) | **OY** = **ACL** = \([ABC \text{ specified by SSC} \times (0.85)]\)  
St. Croix: an additional 5.8822% reduction | | |
| Grouper Units 1 (Nassau) and 2 (goliath), midnight parrotfish, blue parrotfish, rainbow parrotfish (PR, STT/STJ, and STX) | **OY** = **ACL** = 0 | | |
| Queen conch | St. Croix: **OY** = **ACL** = **ABC specified by SSC**  
Puerto Rico and STT/STJ: **OY** = **ACL** = 0 | | |
| **Angelfish, Boxfish, Goatfish, Grunts, Wrasses, Jacks, Scups and Porgies, Squirrelfish, Surgeonfish, Triggerfish and Filefish, Spiny Lobster, Tilefish, Aquarium Trade FMUs (CFMC 2011b)** | | |
| Puerto Rico: grunts, goatfishes, squirrelfish, scups & porgies, jacks, triggerfish & filefish, boxfish, and wrasses FMUs | **MSY proxy** = Median annual landings from:  
Commercial: 1988-2009  
Recreational: 2000-2009 | **OFL** = **MSY proxy** adjusted using the ORCS scalar; overfishing occurs when annual landings exceed the OFL, unless NOAA Fisheries' Southeast Fisheries Science Center (in consultation with the Council and its SSC) determines the overage occurred because data collection/monitoring improved, rather than because landings actually increased. |
| Puerto Rico: spiny lobster FMU | **MSY proxy** = Median annual landings from 1988-2009 | | |
| Puerto Rico: surgeonfish, angelfish, and tilefish FMUs (Caribbean wide) | **MSY proxy** = Maximum of a single year of recreational landings x 3. | | |
| St. Croix and St. Thomas/St. John: grunts, goatfishes, squirrelfish, scups & porgies, jacks, triggerfish & filefish, boxfish, wrasses, angelfish, and surgeonfish, and spiny lobster FMUs | **MSY proxy** = Mean annual landings from:  
1999-2008 for St. Croix  
2000-2008 for St. Thomas/St. John | | |
| Aquarium trade species FMU (Caribbean-wide) | **MSY proxy** = median annual landings from years 1988-2009 obtained from Puerto Rico commercial and recreational landings. | | |
| **OFL** | **Puerto Rico (all FMUs)** | **OFL** = **MSY proxy**: overfishing occurs when annual landings exceed the OFL, unless NOAA Fisheries' Southeast Fisheries Science Center (in consultation with the Council and its SSC) determines the overage occurred because data collection/monitoring improved, rather than because landings actually increased. | |
| **USVI (all FMUs); aquarium trade and tilefish FMUs (Caribbean-wide)** | **OFL** = **MSY proxy**: overfishing occurs when annual landings exceed the OFL, unless NOAA Fisheries' Southeast Fisheries Science Center (in consultation with the Council and its SSC) determines the overage occurred because data collection/monitoring improved, rather than because landings actually increased. | | |
ABC

<table>
<thead>
<tr>
<th>All FMUs, for PR, STT/STJ, and STX</th>
<th>ABC= OFL</th>
</tr>
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OY and ACL

| Grunts, goatfishes, squirrelfish, scups & porgies, jacks, triggerfish & filefish, boxfish, wrasses, spiny lobster FMUs (PR, STT/STJ, and STX); tilefish FMU (Caribbean-wide) | OY = ACL = [ABC x (0.90)] |
| Surgeonfish and angelfish FMUs (PR, STT/STJ, and STX); aquarium trade FMU (Caribbean-wide) | OY = ACL = [ABC x (0.75)] |

1OFLs defined for the entire Caribbean Region. 2OFLs defined per island/island group. 3All islands means Puerto Rico, St. Croix, and St. Thomas/St. John.

Action 3. Identify/Describe Essential Fish Habitat (EFH) for new species in the St. Thomas/St. John FMP.

**Alternative 1.** No Action. Do not identify essential fish habitat for new species added to the St. Thomas/St. John FMP.

**Alternative 2.** Describe and identify EFH according to functional relationships between life history stages of federally-managed species and U.S. Caribbean marine and estuarine habitats.

**Alternative 3.** Designate habitat areas of particular concern in the St. Thomas/St. John FMPs based on confirmed spawning locations and on areas or sites identified as having particular ecological importance to managed species.

Discussion: **Alternative 1** would prevent the Council from designating EFH for any new species added to the St. Thomas/St. John FMP. Therefore, if **Alternative 1** is selected, the Council would not comply with the Magnuson-Stevens Act requirement of designating EFH for all managed species. **Alternative 2** would specify functional relationships for life stages (e.g., eggs and larvae) and the habitat types that might be regarded as meriting special attention for their importance to managed species. The Magnuson-Stevens Act defines EFH as “those waters and substrate necessary to fish for spawning, breeding, feeding or growth to maturity.” These are the functions that marine and estuarine habitats support. Under this alternative, the distribution of species and life stages is inferred from information on these functional relationships. For example, the reef fish fishery in the U.S. Caribbean consists of all waters from mean high water to the outer boundary of the EEZ including habitats used by eggs and larvae, and all substrates from mean high water to 100 fathoms depth used by other life stages. **Alternative 3** would allow the Council to establish habitat areas of particular concern (HAPCs) for any new species in the St. Thomas/St. John FMP. The EFH regulations encourage regional Fishery Management Councils to designate these HAPCs within areas identified as EFH in order to focus conservation priorities on specific habitat areas that play a particularly important role in the life cycles of federally managed fish species. For example, the Council has identified the Hind Bank Marine Conservation District and Grammanik Bank as HAPCs based on the occurrence of confirmed red hind spawning aggregations.
References
