

Summary of Closure Management Actions for the Reef Fish Fishery of Puerto Rico and the U.S. Virgin Islands as Documented within the Management History Database

K. Godwin, G. Malone, S. Atkinson, A. Rios

SEDAR80-WP-11

13 July 2022



This information is distributed solely for the purpose of pre-dissemination peer review. It does not represent and should not be construed to represent any agency determination or policy.

Please cite this document as:

Godwin, K., G. Malone, S. Atkinson, A. Rios. 2022. Summary of Closure Management Actions for the Reef Fish Fishery of Puerto Rico and the U.S. Virgin Islands as Documented within the Management History Database. SEDAR80-WP-11. SEDAR, North Charleston, SC. 12 pp.

SEDAR80-WP-11

Summary of Closure Management Actions for the Reef Fish Fishery of Puerto Rico and the U.S.
Virgin Islands as Documented within the Management History Database

K. Godwin¹, G. Malone¹, S. Atkinson¹, A. Rios²

June 9, 2022

¹Cooperative Institute for Marine & Atmospheric Studies, Rosenstiel School of Marine & Atmospheric Science, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149

²National Marine Fisheries Service, Southeast Fisheries Science Center, Miami Laboratory, 75 Virginia Beach Drive, Miami, FL 33149

A Management History database is being compiled, cataloged, and standardized by the Cooperative Institute for Marine and Atmospheric Studies of the University of Miami in collaboration with the Rosenstiel School of Marine and Atmospheric Science, and the National Oceanic and Atmospheric Administration's National Marine Fisheries Service and Southeast Fisheries Science Center, Fisheries Statistics and Sustainable Fisheries Divisions. Support for this project is provided by the Fisheries Information System National Observer Program.

The Management History Database effort involves:

- Identifying Federal Register documentation associated with management actions affecting federally managed species throughout the Gulf of Mexico, South Atlantic, and U.S. Caribbean regions.
- Creating standardized records specifying the Fishery Management Plan (FMP), species, jurisdiction, and fishing sector (commercial and recreational) to which each management action is applied.

Once complete, the goal of the database is to provide a comprehensive and standardized record of published management actions to increase the efficiency of fisheries stock assessments, ACL monitoring, and ecosystem approaches. However, the database is still in development and is not yet available to the public. The intention of this working paper is not to replace current management history documents, but provide complementary tables of cited regulations.

We queried a prototype of the database for records related to fishery closures within the Reef Fish Fishery of Puerto Rico and the U.S. Virgin Islands. The records associated with closures and fishing seasons for both the commercial and recreational fisheries are summarized in Tables 1 through 12, divided by region, applicable species, and closure type.

The list of species included within the Caribbean reef fish species groups can be found at <https://www.ecfr.gov/current/title-50/part-622/appendix-Appendix%20A%20to%20Part%20622>.

Table 1. Seasonal commercial (com) closure records for individual species contained within the Management History database applicable to the entire Caribbean region.

| Fishery | Closure Type | Region Affected | Species | Start Year | End Year | Effective Date | End Date | First Day in Effect | Last Day in Effect | FR Citation |
|-------------|---------------------|-----------------------------------|---------------------|------------|----------|----------------|----------|---------------------|--------------------|-----------------------------|
| COM: ALL | Seasonal Closure | Caribbean EEZ | GROUPEr, NASSAU | 1985 | Present | 9/22/1985 | Present | Jan 1, 12:01 am | Mar 31 | 50 FR 34850 |
| | | | GROUPEr, BLACK | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | GROUPEr, RED | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | GROUPEr, TIGER | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | GROUPEr, YELLOWEDGE | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | GROUPEr, YELLOWFIN | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | SNAPPER, BLACK | 2005 | Present | 11/28/2005 | Present | Oct 1 | Dec 31 | 70 FR 62073 |
| | | | SNAPPER, BLACKFIN | 2005 | Present | 11/28/2005 | Present | Oct 1 | Dec 31 | 70 FR 62073 |
| | | | SNAPPER, LANE | 2005 | Present | 11/28/2005 | Present | Apr 1 | Jun 30 | 70 FR 62073 |
| | | | SNAPPER, MUTTON | 2005 | Present | 11/28/2005 | Present | Apr 1 | Jun 30 | 70 FR 62073 |
| | | | SNAPPER, SILK | 2005 | Present | 11/28/2005 | Present | Oct 1 | Dec 31 | 70 FR 62073 |
| | | | SNAPPER, VERMILION | 2005 | Present | 11/28/2005 | Present | Oct 1 | Dec 31 | 70 FR 62073 |

Table 2. Seasonal recreational (rec) closure records for individual species contained within the Management History database applicable to the entire Caribbean region.

| Fishery | Closure Type | Region Affected | Species | Start Year | End Year | Effective Date | End Date | First Day in Effect | Last Day in Effect | FR Citation |
|-------------|---------------------|-----------------------------------|------------------------|------------|----------|----------------|----------|---------------------|--------------------|-----------------------------|
| REC: ALL | Seasonal Closure | Caribbean EEZ | GROUPEr, NASSAU | 1985 | Present | 9/22/1985 | Present | Jan 1, 12:01 am | Mar 31 | 50 FR 34850 |
| | | | SNAPPER, VERMILION | 2005 | Present | 11/28/2005 | Present | Oct 1 | Dec 31 | 70 FR 62073 |
| | | | SNAPPER, BLACKFIN | 2005 | Present | 11/28/2005 | Present | Oct 1 | Dec 31 | 70 FR 62073 |
| | | | SNAPPER, SILK | 2005 | Present | 11/28/2005 | Present | Oct 1 | Dec 31 | 70 FR 62073 |
| | | | SNAPPER, BLACK | 2005 | Present | 11/28/2005 | Present | Oct 1 | Dec 31 | 70 FR 62073 |
| | | | SNAPPER, LANE | 2005 | Present | 11/28/2005 | Present | Apr 1 | Jun 30 | 70 FR 62073 |
| | | | SNAPPER, MUTTON | 2005 | Present | 11/28/2005 | Present | Apr 1 | Jun 30 | 70 FR 62073 |
| | | | GROUPEr, YELLOWEDGE | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | GROUPEr, RED | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | GROUPEr, BLACK | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | GROUPEr, YELLOWFIN | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | GROUPEr, TIGER | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |

Table 3. Commercial (com) one time closure records for individual species contained within the Management History database applicable to the entire Caribbean region.

| Fishery | Closure Type | Region Affected | Species | Start Year | Effective Date | End Date | FR Citation |
|----------------------|--------------------|-------------------------------|--------------------------|-----------------------------|----------------|----------|--|
| COM: ALL | Prohibited Species | Caribbean EEZ | GROUPER, NASSAU | 1990 | 11/29/1990 | Present | 55 FR 46214 58 FR 53145 |
| | | | BUTTERFLYFISH, BANDED | 1993 | 11/15/1993 | Present | 58 FR 53145 |
| | | | BUTTERFLYFISH, LONGSNOUT | 1993 | 11/15/1993 | Present | 58 FR 53145 |
| | | | SEAHORSES | 1993 | 11/15/1993 | Present | 58 FR 53145 |
| | | | BUTTERFLYFISH, FOUREYE | 1993 | 11/15/1993 | Present | 58 FR 53145 |
| | | | PARROTFISH, BLUE | 2012 | 1/30/2012 | Present | 76 FR 82403 |
| | | | PARROTFISH, RAINBOW | 2012 | 1/30/2012 | Present | 76 FR 82403 |
| PARROTFISH, MIDNIGHT | 2012 | 1/30/2012 | Present | 76 FR 82403 | | | |

Table 4. Recreational (rec) one time closure records for individual species contained within the Management History database applicable to the entire Caribbean region.

| Fishery | Closure Type | Region Affected | Species | Start Year | Effective Date | End Date | FR Citation |
|----------------------|--------------------|-------------------------------|--------------------------|-----------------------------|----------------|----------|--|
| REC: ALL | Prohibited Species | Caribbean EEZ | GROUPER, NASSAU | 1990 | 11/29/1990 | Present | 55 FR 46214 58 FR 53145 |
| | | | BUTTERFLYFISH, BANDED | 1993 | 11/15/1993 | Present | 58 FR 53145 |
| | | | BUTTERFLYFISH, LONGSNOUT | 1993 | 11/15/1993 | Present | 58 FR 53145 |
| | | | SEAHORSES | 1993 | 11/15/1993 | Present | 58 FR 53145 |
| | | | BUTTERFLYFISH, FOUREYE | 1993 | 11/15/1993 | Present | 58 FR 53145 |
| | | | PARROTFISH, BLUE | 2012 | 1/30/2012 | Present | 76 FR 82403 |
| | | | PARROTFISH, RAINBOW | 2012 | 1/30/2012 | Present | 76 FR 82403 |
| PARROTFISH, MIDNIGHT | 2012 | 1/30/2012 | Present | 76 FR 82403 | | | |

Table 5. Seasonal commercial (com) closure records contained within the Management History database applicable to certain species and all species within Caribbean sub-regions.

| Fishery | Closure Type | Species | Region Affected | Start Year | End Year | Effective Date | End Date | First Day in Effect | Last Day in Effect | FR Citation |
|-------------|---------------------|----------------|---|------------|----------|----------------|-----------|---------------------|--------------------|-----------------------------|
| COM: ALL | Seasonal Closure | All Species | BAJO DE SICO REEF FISH FISHERY MANAGEMENT AREA | 2010 | Present | 12/2/2010 | Present | Oct 1 | Mar 31 | 75 FR 67247 |
| | | | GRAMMANIK BANK REEF FISH FISHERY MANAGEMENT AREA | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | HIND BANK MARINE CONSERVATION DISTRICT (MCD) REEF FISH FISHERY MANAGEMENT AREA | 1990 | Present | 11/29/1990 | Present | Dec 1 | Feb 28 | 55 FR 46214 |
| | | | MUTTON SNAPPER SPAWNING AGGREGATION REEF FISH FISHERY MANAGEMENT AREA | 1993 | 1996 | 11/15/1993 | 12/6/1996 | Mar 1 | Jun 30 | 58 FR 53145 |
| | | | | 1996 | Present | 12/7/1996 | Present | Mar 1 | Jun 30 | 61 FR 64485 |
| | | | RED HIND SPAWNING AGGREGATION EAST OF ST. CROIX REEF FISH FISHERY MANAGEMENT AREA | 1993 | Present | 11/15/1993 | Present | Dec 1 | Feb 28 | 58 FR 53145 |
| | | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - ABRIR LA SIERRA BANK | 1996 | Present | 12/7/1996 | Present | Dec 1 | Feb 28 | 61 FR 64485 |
| | | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - BAJO DE SICO | 1996 | Present | 12/7/1996 | Present | Dec 1 | Feb 28 | 61 FR 64485 |
| | | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - TOURMALINE BANK | 1996 | Present | 12/7/1996 | Present | Dec 1 | Feb 28 | 61 FR 64485 |
| | | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO REEF FISH MANAGEMENT AREA | 1993 | Present | 11/15/1993 | Present | Dec 1 | Feb 28 | 58 FR 53145 |
| | | HIND, RED | WEST OF 67°10'W. LONGITUDE | 2005 | Present | 11/28/2005 | Present | Dec 1 | Mar 1 | 70 FR 62073 |

Table 6. Seasonal recreational (rec) closure records contained within the Management History database applicable to certain species and all species within Caribbean sub-regions.

| Fishery | Closure Type | Species | Region Affected | Start Year | End Year | Effective Date | End Date | First Day in Effect | Last Day in Effect | FR Citation |
|-------------|---------------------|---|---|------------|------------|----------------|-----------|---------------------|-----------------------------|-----------------------------|
| REC: ALL | Seasonal Closure | All Species | BAJO DE SICO REEF FISH FISHERY MANAGEMENT AREA | 2010 | Present | 12/2/2010 | Present | Oct 1 | Mar 31 | 75 FR 67247 |
| | | | GRAMMANIK BANK REEF FISH FISHERY MANAGEMENT AREA | 2005 | Present | 11/28/2005 | Present | Feb 1 | Apr 30 | 70 FR 62073 |
| | | | HIND BANK MARINE CONSERVATION DISTRICT (MCD) REEF FISH FISHERY MANAGEMENT AREA | 1990 | Present | 11/29/1990 | Present | Dec 1 | Feb 28 | 55 FR 46214 |
| | | | MUTTON SNAPPER SPAWNING AGGREGATION REEF FISH FISHERY MANAGEMENT AREA | 1993 | 1996 | 11/15/1993 | 12/6/1996 | Mar 1 | Jun 30 | 58 FR 53145 |
| | | | | 1996 | Present | 12/7/1996 | Present | Mar 1 | Jun 30 | 61 FR 64485 |
| | | | RED HIND SPAWNING AGGREGATION EAST OF ST. CROIX REEF FISH FISHERY MANAGEMENT AREA | 1993 | Present | 11/15/1993 | Present | Dec 1 | Feb 28 | 58 FR 53145 |
| | | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - ABRIR LA SIERRA BANK | 1996 | Present | 12/7/1996 | Present | Dec 1 | Feb 28 | 61 FR 64485 |
| | | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - BAJO DE SICO | 1996 | Present | 12/7/1996 | Present | Dec 1 | Feb 28 | 61 FR 64485 |
| | | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - TOURMALINE BANK | 1996 | Present | 12/7/1996 | Present | Dec 1 | Feb 28 | 61 FR 64485 |
| | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO REEF FISH MANAGEMENT AREA | 1993 | Present | 11/15/1993 | Present | Dec 1 | Feb 28 | 58 FR 53145 | |
| | HIND, RED | WEST OF 67°10'W. LONGITUDE | 2005 | Present | 11/28/2005 | Present | Dec 1 | Mar 1 | 70 FR 62073 | |

Table 7. Commercial (com) one time closure records contained within the Management History database applicable to all species within Caribbean sub-regions.

| Fishery | Closure Type | Species | Region Affected | Subsector | Start Year | Effective Date | End Date | FR Citation |
|---------|--------------|-------------|---|--------------------------|------------|----------------|-----------|-----------------------------|
| COM | Closure | All Species | HIND BANK MARINE CONSERVATION DISTRICT (MCD) REEF FISH FISHERY MANAGEMENT AREA | ALL | 1989 | 12/6/1989 | 2/28/1990 | 54 FR 50624 |
| | | | GRAMMANIK BANK REEF FISH FISHERY MANAGEMENT AREA | ALL | 2005 | 2/1/2005 | 4/30/2005 | 70 FR 300 |
| | | | | BOTTOM LONGLINE | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | | GILLNETS OR TRAMMEL NETS | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | | POTS AND TRAPS | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | MUTTON SNAPPER SPAWNING AGGREGATION REEF FISH FISHERY MANAGEMENT AREA | BOTTOM LONGLINE | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | | GILLNETS OR TRAMMEL NETS | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | | POTS AND TRAPS | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | RED HIND SPAWNING AGGREGATION EAST OF ST. CROIX REEF FISH FISHERY MANAGEMENT AREA | BOTTOM LONGLINE | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | | GILLNETS OR TRAMMEL NETS | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | | POTS AND TRAPS | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - ABRIR LA SIERRA BANK | BOTTOM LONGLINE | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | | GILLNETS OR TRAMMEL NETS | 2005 | 11/28/2005 | Present | 70 FR 62073 |
| | | | | POTS AND TRAPS | 2005 | 11/28/2005 | Present | 70 FR 62073 |

Table 7 Continued. Commercial (com) one time closure records contained within the Management History database applicable to all species within Caribbean sub-regions.

| Fishery | Closure Type | Species | Region Affected | Subsector | Start Year | Effective Date | End Date | FR Citation |
|---------|--------------|-------------|--|--------------------------|------------|----------------|----------|------------------------------------|
| COM | Closure | All Species | <u>RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - BAJO DE SICO</u> | BOTTOM LONGLINE | 2005 | 11/28/2005 | Present | <u>70 FR 62073</u> |
| | | | | GILLNETS OR TRAMMEL NETS | 2005 | 11/28/2005 | Present | <u>70 FR 62073</u> |
| | | | | POTS AND TRAPS | 2005 | 11/28/2005 | Present | <u>70 FR 62073</u> |
| | | | <u>RED HIND SPAWNING AGGREGATION WEST OF PUERTO RICO - TOURMALINE BANK</u> | BOTTOM LONGLINE | 2005 | 11/28/2005 | Present | <u>70 FR 62073</u> |
| | | | | GILLNETS OR TRAMMEL NETS | 2005 | 11/28/2005 | Present | <u>70 FR 62073</u> |
| | | | | POTS AND TRAPS | 2005 | 11/28/2005 | Present | <u>70 FR 62073</u> |
| | | | <u>BAJO DE SICO REEF FISH FISHERY MANAGEMENT AREA</u> | BOTTOM LONGLINE | 2010 | 12/2/2010 | Present | <u>75 FR 67247</u> |
| | | | | GILLNETS OR TRAMMEL NETS | 2010 | 12/2/2010 | Present | <u>75 FR 67247</u> |
| | | | | POTS AND TRAPS | 2010 | 12/2/2010 | Present | <u>75 FR 67247</u> |

Table 8. Recreational (rec) one time closure records contained within the Management History database applicable to all species within the Caribbean sub-regions.

| Fishery | Closure Type | Species | Region Affected | Start Year | Effective Date | End Date | FR Citation |
|-------------|--------------|-------------|---|------------|----------------|-----------|------------------------------------|
| REC: ALL | Closure | All Species | <u>HIND BANK MARINE CONSERVATION DISTRICT (MCD) REEF FISH FISHERY MANAGEMENT AREA</u> | 1989 | 12/6/1989 | 2/28/1990 | <u>54 FR 50624</u> |
| | | | <u>GRAMMANIK BANK REEF FISH FISHERY MANAGEMENT AREA</u> | 2005 | 2/1/2005 | 4/30/2005 | <u>70 FR 300</u> |

Table 9. Commercial (com) one time closure records contained within the Management History database applicable to species groups within Caribbean sub-regions.

| Fishery | Closure Type | Region Affected | Species | Start Year | Start Day | End Day | FR Citation |
|----------|--------------|---|-------------------------------|------------|------------------------|------------|-----------------------------|
| COM: ALL | Closure | PUERTO RICO MANAGEMENT AREA | BALISTIDAE—TRIGGERFISHES | 2016 | 10/16/2016, 12:01am | 12/31/2016 | 81 FR 34283 |
| | | | | 2017 | 8/13/2017, 12:01am | 9/30/2017 | 82 FR 31489 |
| | | | LABRIDAE—WRASSES | 2014 | 10/20/2014, 12:01am | 12/31/2014 | 79 FR 62575 |
| | | | | 2016 | 11/16/2016, 12:01am | 12/31/2016 | 81 FR 34283 |
| | | | LUTJANIDAE—SNAPPERS UNIT 2 | 2016 | 11/26/2016, 12:01am | 12/31/2016 | 81 FR 34283 |
| | | | | 2017 | 9/15/2017, 12:01am | 9/30/2017 | 82 FR 31489 |
| | | | MONACANTHIDAE— FILEFISHES | 2016 | 10/16/2016, 12:01am | 12/31/2016 | 81 FR 34283 |
| | | | | 2017 | 8/13/2017, 12:01am | 9/30/2017 | 82 FR 31489 |
| | | | SCARIDAE—PARROTFISHES | 2016 | 12/19/2016, 12:01am | 12/31/2016 | 81 FR 34283 |

Table 10. Recreational (rec) one time closure records contained within the Management History database applicable to species groups within Caribbean sub-regions.

| Fishery | Closure Type | Region Affected | Species | Start Year | Start Date | End Date | FR Citation |
|----------|--------------|---|-------------------------------|------------|------------------------|------------|-----------------------------|
| REC: ALL | Closure | PUERTO RICO MANAGEMENT AREA | BALISTIDAE— TRIGGERFISHES | 2017 | 9/18/2017, 12:01am | 9/30/2017 | 82 FR 31489 |
| | | | CARANGIDAE—JACKS | 2016 | 11/4/2016, 12:01am | 12/31/2016 | 81 FR 34283 |
| | | | | 2017 | 9/28/2017, 12:01am | 9/30/2017 | 82 FR 31489 |
| | | | LABRIDAE—WRASSES | 2017 | 4/19/2017, 12:01am | 12/31/2017 | 82 FR 18400 |
| | | | MONACANTHIDAE— FILEFISHES | 2017 | 9/18/2017, 12:01am | 9/30/2017 | 82 FR 31489 |
| | | | SCARIDAE—PARROTFISHES | 2017 | 11/4/2017, 12:01am | 12/31/2017 | 82 FR 18400 |
| | | ST. CROIX MANAGEMENT AREA | LEATHERJACKETS— BALISTIDAE | 2013 | 11/21/2013, 12:01am | 12/31/2013 | 78 FR 18247 |

Table 11. One-time commercial (com) fishing season records contained within the Management History database applicable to species groups within Caribbean sub-regions.

| Fishery | Closure Type | Region Affected | Species | Start Year | Start Date | End Date | FR Citation |
|-------------|---------------------|---|-------------------------------|------------|------------------------|------------|-----------------------------|
| COM: ALL | Open Fishing Season | PUERTO RICO MANAGEMENT AREA | LUTJANIDAE—SNAPPERS UNIT 2 | 2013 | 9/21/2013, 12:01am | 12/31/2013 | 78 FR 18247 |
| | | ST. CROIX MANAGEMENT AREA | LEATHERJACKETS— BALISTIDAE | 2013 | 11/21/2013, 12:01am | 12/31/2013 | 78 FR 18247 |
| | | | MONACANTHIDAE— FILEFISHES | 2013 | 11/21/2013, 12:01am | 12/31/2013 | 78 FR 18247 |
| | | ST. THOMAS/ST. JOHN MANAGEMENT AREA | GROUPERS—SERRANIDAE | 2013 | 12/20/2013, 12:01am | 12/31/2013 | 78 FR 18247 |

Table 12. One-time recreational (rec) fishing season records contained within the Management History database applicable to species groups within Caribbean sub-regions.

| Fishery | Closure Type | Region Affected | Species | Start Year | Start Date | End Date | FR Citation |
|-------------|---------------------|---|------------------------------|------------|------------------------|------------|-----------------------------|
| REC: ALL | Open Fishing Season | ST. THOMAS/ST. JOHN MANAGEMENT AREA | GROUPERS—SERRANIDAE | 2013 | 12/20/2013, 12:01am | 12/31/2013 | 78 FR 18247 |
| | | PUERTO RICO MANAGEMENT AREA | LABRIDAE—WRASSES | 2013 | 10/21/2013, 12:01am | 12/31/2013 | 78 FR 18247 |
| | | ST. CROIX MANAGEMENT AREA | MONACANTHIDAE— FILEFISHES | 2013 | 11/21/2013, 12:01am | 12/31/2013 | 78 FR 18247 |