Supplemental Information

Overfishing drives over one-third of all
sharks and rays toward a global extinction crisis

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A Sharks & Chimaeras

Bythaelurus alcockii
Parmaturus bigus
Bythaelurus bachi
Apristurus rivelis
Bythaelurus vivakii
Parmaturus macmillani
Apristurus spongius
Bythaelurus naylori
Apristurus duriophisii
Holothuria aquamarina
Apristurus callidus
Apristurus bruneus
Galatea gracile
Bythaelurus ovakii
Squalimodalatias garrãldi
Coreolymnosus macracanthus
Chimaera dideae
Apristurus aligerus
Etmopterus lalae
Figaro striatus
Cephaloscyllium cooii
Etmopterus mollerii
Bythaelurus alveari
Etmopterus unicorii
Planonanus indicus
Chimaera owatensis
Etmopterus brachyrhynchus
Chimaera orientalis
Squalus bahianus
Chimaera bocaccianus
Cephaloscyllium signatum
Scoliodon cyanurus
Squalus blainvillei
Hydrolycus barbouri
Chimaera jordani
Cephaloscyllium exoptyum
Squalus biceps
Ctenophorus westraliensis
Chimaera willetti
Haliacampus quagga
Hemichis albostris
Squalus albostris
Squalus mahe
Squalimodalatias sherwoodi
Rhacthimaera africana
Squalus quinimunis
Cephaloscyllium quicomum
Squalus alleni
Galeus gracilis
Cephaloscyllium pictum
Hydrolycus afrianius
Scoliodon hackai
Squalus libralis
Asymomus furulitus
Somniosus longus
Parmaturus nigraurostris
Chirigaleus australis
Squalus mendedus
Parascyllium australicus
Scoliodon ceyrosi
Chirigaleus asper
Squalimodalatias albocauda
Heterorhina ramalheira
Pithura kajao
Parascyllium elogatuem
Heterorhina ornamentalis
Alamadurus macrura
Gogolea novemvri
Echimanthus cookii
Heterorhina francisci
Chiloscyllium caeruleopunctatum
Pleacmyx annua
Carcharhinus humanus
Orectolobus relictus

B Rays

Criuina durbamenensis
Notoraja sapphirina
Brochiraja heuresa
Apristurus microspinifera
Notoraja lana
Fenestrastra macracanthi
Leucoraja elainaeae
Amblyraja reversa
Pavonara arenaria
Brochiraja leviiflora
Notoraja hirudicata
Bathyraja ishikawai
Brochiraja abalabata
Narcine nigricans
Smobatis flicata
Urolophus kasmirii
Notoraja ochromerma
Bathyraja abyssicola
Fenestrastra sibogae
Smobatis caerleae
Leucoraja campagnoi
Heterorhinc mola
Heterorhinc bentusii
Brochiraja aenigma
Brochiraja viticucuta
Brochiraja aspersa
Brochiraja spinifera
Criuina andamanica
Orbiantha philii
Dipturus johannisdavisi
Arhynchobatis aspersimus
Dipturus exquidenticus
Dipturus melanoscapus
Narine insidita
Dipturus lanceostratus
Inepta westraliensis
Amblyraja georgiana
Dipturus strechynius
Neotygon kuhlii
Bathyraja shuntovi
Dentiraja falicara
Torpedo fuscomaculata
Narine occullata
Amblyraja lae
Rhobnatos nudifolialis
Hemobyra parvorniga
Discopyge castelaci
Hemobyra yemenensis
Dentiraja fenderi
Raja hawegi
Acroteriobatis ocellatus
Dipturus longicornis
Rhinobatos holocryhnus
Zapteyns exasperata
Dipturus argentinensis
Rhinobatos omentalis
Hemitrygon paraenigma
Torpedo sinuspersici
Homobatus melas
Dipturus angusti
Aetomylaeus asperrimus
Dipturus argentinensis
Acroteriobatis omanensis
Rhinobatos saussureanus
Raja jozi
Dipturus johannisdavisi
Rhinobatos indoensis
Dipturus melanospilus
Makararaja chindwiaiensis
Dasyatis toxum
Rhinobatos ausini
Raja pita
Arhynchobatis aspersimus
Megatrygon microps
Rhinobatos neglecta
Uragymus acraheithron

Probability of being each IUCN Red List Category

LC
NT
VU
EN
CR
Cut-off
Figure S1. Predicted Red List category of 142 Data Deficient chondrichthians from Cumulative Link Mixed-effects Models, related to Figure 4.

(A) Sharks and chimaeras.

(B) Rays. A 50% probability was used to classify species into IUCN categories, and this is shown with a grey line. The top model included maximum size (cm) and median depth (m) as fixed effects.
Disproportionate coastal chondrichthyans are disproportionately threatened in the tropics and subtropics, related to Figure 5. Disproportionate is defined by greater than 50% and greater than 75% of species are threatened per cell.
| Unique threat                        | Intentional (target catch) | Unintentional catch | Both intentional & unintentional | Scale total |
|-------------------------------------|----------------------------|---------------------|----------------------------------|-------------|
| Subsistence/small scale            | 0.4% (4)                   | 1.9% (21)           | 1.7% (19)                        | 4.0% (44)   |
| Large-scale                         | 0.6% (7)                   | 34.5% (377)         | 1.4% (15)                        | 36.5% (399) |
| Both subsistence & industrial       | 0.0% (0)                   | 31.2% (340)         |                                  |             |
| Intentionality total                | 1.0% (11)                  | 67.5% (738)         |                                  |             |

| Combined threats                    | Intentional (target catch) | Unintentional catch | Scale total |
|-------------------------------------|----------------------------|---------------------|-------------|
| Subsistence/small scale            | 28.0% (306)                | 62.4% (681)         | 63.6% (694) |
| Large-scale                         | 21.4% (233)                | 95.2% (1,040)       | 96.0% (1,049)|
| Intentionality total                | 32.5% (355)                | 99.0% (1,082)       |             |

For unique threats, species are scored only when coded for the unique threat or the column or row pairwise combination. For the combined threats, species can be coded for up to all four combinations.

Table S1. Percent of all 1,091 species under exploitation classified by intentionality (intentional vs. unintentional) and scale of the fishery (subsistence/small-scale vs. large-scale) separated by unique and pairwise, and combined threats, Related to Figure 3.
### Data-sufficient Chondrichthysans ($n = 1,178$)

| Fixed effects | logLik  | AIC    | ΔAIC | AIC weight | Coefficient estimates | Standard Error | Random effect variance / standard deviation |
|---------------|---------|--------|------|------------|-----------------------|----------------|---------------------------------------------|
| Maximum Size  | -1230.72| 2473.44| 87.42| 9.01e-20   | 0.76                  | 0.18           | 2.32 / 1.52                                |
| Median Depth  | -1212.21| 2436.42| 50.39| 9.87e-12   | -1.50                 | 0.20           | 2.15 / 1.47                                |
| Maximum Size + Median Depth + Geographic Range | -1185.01| 2386.02| 0.00 | 8.66e-01   | 1.09 -1.97 +0.45     | 0.19           | 1.02 / 1.01                                |

### Data-sufficient sharks ($n = 528$)

| Fixed effects | logLik  | AIC    | ΔAIC | AIC weight | Coefficient estimates | Standard Error | Random effect variance / standard deviation |
|---------------|---------|--------|------|------------|-----------------------|----------------|---------------------------------------------|
| Maximum Size  | -529.30 | 1070.61| 11.83| 1.70e-03   | 0.91                  | 0.29           | 1.68 / 1.30                                |
| Median Depth  | -530.42 | 1072.84| 14.06| 5.56e-04   | -0.74                 | 0.27           | 2.26 / 1.50                                |
| Maximum Size + Median Depth | -522.39| 1058.77| 0.00 | 6.30e-01   | 1.21 -1.03            | 0.29           | 1.32 / 1.15                                |
| Maximum Size + Median Depth + Geographic Range | -521.94| 1059.87| 1.10 | 3.63e-01   | 1.08 -1.10 +0.29     | 0.32           | 1.30 / 1.14                                |

### Data-sufficient rays ($n = 598$)
|                      | LogLik | AIC  | ΔAIC | p(ΔAIC) | p(ΔAIC)  |
|----------------------|--------|------|------|----------|----------|
| Maximum Size         | -667.43| 1346.85 | 76.71 | 1.61e-17 | 0.78     |
|                      |        |       |      |          |          |
| Median Depth         | -647.75| 1307.50 | 37.36 | 5.64e-09 | 2.08     |
|                      |        |       |      |          |          |
| Maximum Size + Median Depth | -627.07| 1270.14 | 0.00  | 7.31e-01 | 1.26     |
|                      |        |       |      |          |          |
| Maximum Size + Median Depth + Geographic Range | -627.07| 1270.14 | 0.00  | 7.31e-01 | 1.26     |

LogLik = log likelihood, AIC = Akaike Information Criterion, ΔAIC = difference in AIC from top model.

Table S2. Cumulative Link Mixed-effects Models of the life history and distributional covariates of IUCN status, Related to Figure 4. Separated for all data-sufficient chondrichthyans, sharks, and rays. The models are of the form \( p(\text{IUCN status}) = \) biological and ecological traits, random effect = taxonomic family.
| Fixed Effects | AUC values |
|--------------|------------|
|              | CR  | EN  | VU  | NT  | LC  | thr | Mean |
| Size         | 0.703| 0.650| 0.554| 0.456| 0.816| 0.675| 0.636 |
| Depth        | 0.717| 0.669| 0.656| 0.505| 0.831| 0.755| 0.676 |
| Range        | 0.569| 0.627| 0.561| 0.203| 0.815| 0.638| 0.555 |
| **Size+Depth** | **0.778**| **0.732**| **0.668**| **0.634**| **0.840**| **0.805**| **0.730** |
| Size+Range   | 0.699| 0.653| 0.557| 0.458| 0.815| 0.676| 0.637 |
| Depth+Range  | 0.728| 0.711| 0.674| 0.542| 0.835| 0.783| 0.698 |
| Size+Depth+Range | 0.771| 0.735| 0.675| 0.620| 0.840| 0.806| 0.728 |

The Area Under the Curve (AUC) score represents the probability of a model predicting the correct category, with scores closer to 1 represent high accuracy and those closer to 0.5 representing low predictive accuracy. To choose the model with the highest overall predictive accuracy across categories, the mean AUC of all five categories was calculated. We also calculated the average AUC across the three threatened categories.

**Table S3. Predictive model accuracy for chondrichthyan extinction risk, Related to Figure 4.**

Each model included the IUCN category or as the response variable, and additive combinations of maximum linear dimension (cm), median depth (m) and geographic range as fixed effects, and taxonomic Family as a random effect to account for phylogenetic non-independence.
| Common name          | Latin name      | Species number | Threatened species number | Threatened species (%) | p-value* |
|---------------------|-----------------|----------------|---------------------------|------------------------|----------|
| Devil Rays          | Mobulidae       | 9              | 9                         | 100.0                  | 0.0001   |
| Giant Guitarfishes  | Glaucostegidae  | 6              | 6                         | 100.0                  | 0.0028   |
| Pelagic Eagle Rays  | Aetobatidae     | 5              | 5                         | 100.0                  | 0.0074   |
| Sawfishes           | Pristidae       | 5              | 5                         | 100.0                  | 0.0074   |
| Wedgefishes         | Rhinidae        | 10             | 9                         | 90.0                   | 0.0010   |
| Hammerhead Sharks   | Sphynidae       | 9              | 8                         | 88.9                   | 0.0023   |
| Weasel Sharks       | Hemigaleidae    | 8              | 7                         | 87.5                   | 0.0056   |
| Gulper Sharks       | Centrophoridae  | 15             | 11                        | 73.3                   | 0.0053   |
| Eagle Rays          | Myliobatidae    | 18             | 13                        | 72.2                   | 0.0030   |
| Requiem Sharks      | Carcharhinidae  | 57             | 39                        | 68.4                   | 0.0000   |
| Guitarfishes        | Rhinobatidae    | 34             | 23                        | 67.7                   | 0.0004   |
| Angel Sharks        | Squatinidae     | 22             | 13                        | 59.1                   | 0.0325   |
| Stingrays            | Dasyatidae      | 91             | 51                        | 56.0                   | 0.0002   |

*p-value derived from a one-tailed binomial test of the probability that the percent threatened is significantly greater than for all chondrichthyans (37.5%) at the 0.05 level. The families with five or more species are in descending ordered with the greatest percent of threatened species uppermost.

Table S4. Most speciose threatened families of chondrichthyans, with species richness, the number and percent of species threatened, Related to Figure 5.
| Theme       | Scope                                      | Participants | Dates           | Location     | Funding                                                                                                                                 |
|-------------|--------------------------------------------|--------------|-----------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Taxonomic   | Sawfishes                                  | 28           | 21-24th May 2012| London, UK   | NOAA Award NA12NMF4690058 from Fisheries Headquarters Program Office (FHQ); SOSF project #204, the Mohamed bin Zayed Species Conservation Fund, project #11252587. Further support was provided by IUCN SSC Sub-Committee for Species Conservation Planning, Environment Agency-Abu Dhabi, Chester Zoo, North West Group of Fauna and Flora International, Flying Sharks, Global Ocean, and Dallas World Aquarium. |
| Regional    | Northeast Pacific wide-ranging              | 28           | 21st March 2014  | Seattle, USA | Seattle Aquarium                                                                                                                                 |
| Regional    | Northeast Atlantic, Mediterranean Sea, & Black Seas | 19           | 12-15th May 2014 | Plymouth, UK | European Commission (Directorate General for the Environment Service Contract No. 070307/2011/607526/SER/B.3) and the IUCN Centre for Mediterranean Cooperation (IUCN-Med) |
| Taxonomic   | Devil Ray                                  | 17           | 9-13th June 2014 | Durban, South Africa | SOSF project #235; US State Department IUCN contribution                                                                                                                                 |
| Regional    | Australia                                  | 26           | 16-20th February 2015 | Townsville, Australia | Fisheries Research and Development Corporation (FRDC)                                                                                                                                 |
| Regional    | Northeast Pacific endemics                 | 11           | 15th July 2015  | Reno, USA    | N/A                                                                                                                                 |
| Regional    | Arabian Seas Region                         | 25           | 5-11th Feb. 2017 | Abu Dhabi, UAE | Environment Agency, Abu Dhabi, SOSF Grant # 370. Additional financial support was provided by IFAW, and CMS Sharks MoU                        |
| Type         | Region                        | Participants | Date                          | Location             | Organiser                      |
|--------------|-------------------------------|--------------|-------------------------------|----------------------|-------------------------------|
| Regional     | Sub-Equatorial Africa        | 17           | 23-25th April 2018            | Grahamstown, South Africa | Shark Conservation Fund       |
| Regional     | Southwest Atlantic           | 21           | 31st May to 1st June 2018     | João Pessoa, Brazil   | Shark Conservation Fund       |
| Taxonomic    | Chimaeras                     | 5            | 10-11th June 2018             | João Pessoa, Brazil   | Shark Conservation Fund       |
| Habitat      | Pelagic sharks & rays         | 15           | 5-9th Nov. 2018               | Dallas, USA           | Shark Conservation Fund       |
| Regional     | Eastern Central and Southeast Pacific | 22   | 4-8th February 2019          | Cali, Columbia        | Shark Conservation Fund       |
| Regional     | Northwest & Western Central Atlantic | 21  | 16-21 June 2019             | The Bahamas           | Shark Conservation Fund       |
| Regional     | Northwest Pacific            | 17           | 25-30th August 2019          | Nagasaki, Japan       | Shark Conservation Fund       |
| Habitat      | Deepsea                       | 15           | 18-22 Nov. 2019              | Vancouver, Canada     | Shark Conservation Fund       |
| Regional     | Southeast Asia               | 29           | 13 2-hour calls, 15th April to 28th May 2020 | Virtual | Shark Conservation Fund       |
| Regional     | West Africa                  | 37           | 10 2-hour calls, 7th July to 5th August 2020 | Virtual | Shark Conservation Fund       |

CMS Sharks MoU- Convention of Migratory Species Sharks Memorandum of Understanding, IFAW - International Fund for Animal Welfare, NOAA - US Department of Commerce, National Oceanic and Atmospheric Administration/National Marine Fisheries Service, SOSF - Save Our Seas Foundation.

Table S5. Red List workshops by theme and scope detailing participant numbers, dates, location, and funding sources, Related to STAR Methods.
| Aaron Carlisle          | Dave Kulka       | John Carlson         | Momodou Jallow      |
|------------------------|------------------|----------------------|---------------------|
| Aaron Lobo             | David Allen      | Jonathan Smart       | Momodou Sidibeh     |
| Abdoulaye Ba           | David Morgan     | Joost Pompert        | Monika Böhmer       |
| Abraham Basani Sianipar| David Ebert      | Jorge Morales        | Nathan Pacoureaux   |
| Adam Barnett           | David Robinson   | Jorge Nunes          | Nicholas Dulvy      |
| Adrian Guttridge       | Dawit Tesfamichael| Juan Carlos Pérez Jiménez | Nikola Simpson |
| Adriana Cevallos       | Dayv Lowry       | Juan Martín Cuevas   | Olaf Ormseth        |
| Ahmad Ali              | Dennis Tanay     | Julia Lawson         | Oscar Miguel Lasso-Alcalá |
| Alberto González       | Dharmadi         | Julia Spaet          | Paola Mejía-Falla   |
| Alec Moore             | Diego Cardenosa  | Julie Neer           | Oscar Sosa-Nishizaki|
| Alejandra Briones      | Dwi Ariyoga Gautama | Justin Cordova     | Patricia Charvet    |
| Alen Soldo             | Dyhia Belhabib   | Justine Dossa        | Paula Carlson       |
| Alessandro Ponzo       | Ed Farrell       | Karen Crow           | Peter Kyne          |
| Alex Tamo              | Edwin Grandcourt | Kat Gledhill         | Phil Doherty        |
| Ali Hood               | Elena Buscher    | Katalin Csatadi      | Rachel Cavanagh     |
| Alifa Haque            | Elisa Areano     | Katelyn Hermann      | Rachel Graham       |
| Alistair Harry         | Eloisa Espinoza  | Kelly van Hees       | Rachel Walls        |
| Alvaro Abella          | Emmanuel Chartrain| Kelsi Chiquillo     | Ranny Yuneni        |
| Amie Bräutigam         | Enzo Acuña       | Ken Graham           | Rhett Bennett       |
| Ana Nieto              | Eric Schneider   | Kerry Sink           | Richard Sherley     |
| Ana-Lucia Furtado Soares| Evgeny Romanov   | Kerstin Forsberg     | Riley Polom         |
| Andrea Launer          | Fábio Motta      | Khadeeja Ali         | Rima Jabado         |
| Name                          | Name                          | Name                          | Name                          |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Andrea Marshall              | Fabrizio Serena              | KK Bineesh                    | Rob Leslie                    |
| Andrea Pauly                 | Fahmi                         | Kristian Metcalfe             | Rodrigo Barreto               |
| Andrés Felipe Navia           | Fereidoon Owfi                | Kristin Walovich              | Romney McPhie                 |
| Andrew Chin                  | Framoudou Doumbouya           | KV Akhilesh                   | Rory McAuley                  |
| Ania Budziak                 | Francesco Ferretti            | Kwang-Ming Lui                | Ryan Freedman                 |
| Annie Pek Kiok Lim           | Francis Neat                  | Laura Paesch                  | Samantha Sherman              |
| Antt Maung                   | Francisco Concha              | Leontine Baje                 | Santiago Montealegre-Quijano  |
| Aristide Takoukam            | Francisco Marcante Santana    | Lewis Barnett                 | Sara Ratão                    |
| Armelle Jung                 | George Burgess                | Lindsay Davidson              | Sarah Fowler                  |
| Ashkay Tanna                 | Getulio Rincon               | Luc Badji                     | Sarah Gravel                  |
| Atsuko Yamauchi              | Gina Ralph                    | Lucy Harrison                 | Sarah Lewis                   |
| Bamikole Williams            | Godefroy De Bruyne            | Lucy Keith-Diagne             | Sarika Singh                  |
| Baraka Kuguru                | Grant Johnson                 | Luciana Ferreria              | Shannon Barry                 |
| Barry Bruce                  | Guido Leurs                   | Ly Seyha                      | Shawn Larson                  |
| Beatriz Naranjo              | Guillermo Porrinos            | Lyle Squire                   | Sho Tanaka                    |
| Breanna Machuca              | Giuseppe Notartolo-di-Sciara  | Malcolm Francis               | Simona Cló                    |
| Brendan Talwar               | Gustavo Chiaramonte           | Mamadou Dia                   | Sonja Fordham                 |
| Brit Finucci                 | Guy Stevens                   | Manuel Duriel                 | Sophy McCully Philips         |
| Brooke Anderson              | Hajime Ishihara               | Maria del Pilar Blanco-Parra  | Stela Fernando                |
| Cameron Provost              | Heather Koldeway              | Marina Garcia                 | Stiven Pires                  |
| Carlos Bustamante            | Helen Yan                     | Mario Espinoza                | Susan Smith                   |
| Carmen Santos                | Henning Winker                | Mark Erdmann                  | Tariq Al Mamari               |
| Cassie Rigby                 | Hollie Booth*                 | Mark Stanley-Price            | Tassapon Krajangdara*         |
| Catarina Pien | Hsuan-Ching (Hans) Ho | Martin Clark | Terry Walker |
|--------------|----------------------|-------------|-------------|
| Chante Davis | Hua Hsun Hsu         | Martin Hall | Thomas Farrugia |
| Charlene da Silva | Ian Jacobsen | Mary O'Malley | Tooraj Valinassab |
| Charlie Huveneers | Igbal ElHassan | Mathieu Ducroq | Van Quang Vo |
| Chip Cotton | Igor Volvenko         | Matthew Gollock | Vicente Faria |
| Choong-Hoon Jeong | Isabelle Ender | Matt McDavitt | Vicky Vasquez |
| Chris Chabot | Issah Seidu           | Maximin Djondo | Wade Smith |
| Chris Lowe | Itzigery Burgos       | Meaghen McCord | Wade VanderWright |
| Chris Mull | James Kemp            | Megan Van der Bank | Will White |
| Christine Dudgeon | Jean Utzurrum | Melissa Nehmans | William Smyth |
| Cindy Tribuzio | Jenny Bigman          | Melita Samoily | Xiao Chen |
| Colin Simpfendorfer | Jess Cheok   | Mia Comeros-Raynal | Ximena Vélez-Zuazo |
| Connor White | Jessica Jang         | Michelle Heupel | Yasuko Semba |
| Cristopher Avalos | Jie Zhang    | Mika Diop | Yury Dyldin |
| Daniel Fernando | Jim Ellis            | Moazzam Khan | Zoe Crysler |
| Danielle Derrick | Joe Bizzarro | Mohammad Hassan Ali | |

*denotes significant contribution in absentia

We also thank these five volunteers: Shamsa Al Hameli, Karen K. Frazer, Sarah Gravel, Romney McPhie, and Pedro Warner. We ask forgiveness for any names that may have been inadvertently omitted or misspelled.

Table S6. List of 243 Red List Assessment workshop participants ordered alphabetically by first name, Related to STAR Methods.
| Latin binomial                  | Previous taxonomic concept | Revised taxonomic concept |
|--------------------------------|-----------------------------|---------------------------|
| Aetobatus flagellum            | EN (2006)                   | EN (2020)                 |
| Aetobatus narinari             | NT (2006)                   | EN (2020)                 |
| Aetomylaeus nichofii           | VU (2003)                   | VU (2015)                 |
| Bathytoshia brevicaudata       | LC (2015)                   | LC (2020)                 |
| Bathytoshia centroura          | LC (2007)                   | VU (2019)                 |
| Bathytoshia lata               | LC (2007)                   | VU (2020)                 |
| Bythaelurus lutarius          | DD (2004)                   | DD (2018)                 |
| Carcharhinus dussumieri        | NT (2003)                   | EN (2018)                 |
| Carcharhinus porosus           | DD (2006)                   | CR (2019)                 |
| Centrophorus granulosus        | VU (2006)                   | EN (2019)                 |
| Cephaloscyllium fasciatum      | DD (2010)                   | CR (2019)                 |
| Cephaloscyllium umbratile      | DD (2007)                   | NT (2019)                 |
| Chiloscyllium plagiosum        | NT (2006)                   | NT (2020)                 |
| Chimaera ogilbyi               | VU (2015)                   | NT (2019)                 |
| Dipturus chilensis             | VU (2007)                   | EN (2019)                 |
| Ginglymostoma cirratum         | DD (2006)                   | VU (2019)                 |
| Glaucostegus cemiculus         | EN (2007)                   | CR (2018)                 |
| Glaucostegus typus             | VU (2003)                   | CR (2018)                 |
| Glyphis gangeticus             | CR (2007)                   | CR (2021)                 |
| Gymnura micrura                | DD (2006)                   | NT (2020)                 |
| Hexanchus nakamurai            | DD (2008)                   | NT (2019)                 |
| Species                          | Status 1  | Status 2 |
|---------------------------------|----------|----------|
| *Himantura uarnak*              | VU (2015)| EN (2020)|
| *Hypanus americanus*            | DD (2006)| NT (2019)|
| *Lamiopsis temminckii*          | EN (2008)| EN (2020)|
| *Mobula hypostoma*              | DD (2008)| EN (2018)|
| *Mobula mobular*                | EN (2014)| EN (2018)|
| *Myliobatis tenuicaudatus*      | LC (2003)| LC (2015)|
| *Narke japonica*                | VU (2019)| VU (2021)|
| *Neotrygon kuhlii*              | DD (2015)| DD (2017)|
| *Platyrhina sinensis*           | VU (2008)| EN (2019)|
| *Pliotrema warreni*             | NT (2004)| LC (2019)|
| *Pristis pristis*               | CR (2005)| CR (2013)|
| *Psammobatis normani*           | LC (2019)| LC (2020)|
| *Raja miraletus*                | LC (2003)| LC (2019)|
| *Rajella fyllae*                | LC (2008)| LC (2019)|
| *Rhinobatos schlegelii*         | DD (2004)| CR (2019)|
| *Scoliodon laticaudus*          | NT (2005)| NT (2020)|
| *Scyliorhinus canicula*         | LC (2008)| LC (2020)|
| *Scyliorhinus haeckelii*        | DD (2004)| DD (2019)|
| *Scyliorhinus torazame*         | LC (2008)| LC (2020)|
| *Sinobatis borneensis*          | LC (2008)| LC (2020)|
| *Squalus blainville*            | DD (2008)| DD (2020)|
| *Squalus megalops*              | DD (2003)| LC (2019)|
| *Squalus mitsukurii*            | DD (2007)| EN (2019)|
| Species               | Status 1 | Status 2 |
|-----------------------|----------|----------|
| *Squatina dumeril*    | DD (2006)| LC (2017)|
| *Squatina guggenheim* | EN (2007)| EN (2018)|
| *Taeniura lymma*     | NT (2005)| LC (2020)|
| *Telatrygon zuguei*  | NT (2006)| VU (2019)|
| *Tetronarce nobiliana* | DD (2004)| LC (2020)|
| *Tetronarce tremens* | LC (2019)| LC (2021)|

Table S7. Species that underwent a revision in taxonomic concept since the first assessment, but that we have not classified as Not Evaluated because a species with this name was previously assessed, Related to STAR Method.