# **High Conservation Value Rivers: Data Description**

*December 17, 2020*

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*This document describes the data inputs for the HCVR assessment. Each heading and sub-heading corresponds to layers in the map package* (HCV\_Map\_2020-12-17\_external.mpk)*. See HCVR Report for more information about the assessments and how these data were interpreted for policy recommendations.*

File name:

## **Freshwater status**

### Free-flowing rivers assessment

* Hydropower projects and barrages\*
  + Existing: Existing dams considered for FFR assessment.

\*While under construction and planned dams were used in the analysis, they are not included in the map packing, due to data sensitivity.

* MAP DOM-IMP: Dominant pressure factors for rivers with ‘Impacted’ FFR status. Listed by increasing river order.
* MAP DOM- ALL: Dominant pressure factors listed by increasing river order.
* MAP CSI: CSI for river reaches, listed by increasing river order.
* MAP FFR STATUS: River reaches mapped by river status (impacted, good, free-flowing) and listed by river size (very long, long, medium, short).
* Benchmark rivers: Benchmark rivers used for FFR assessment.

### Water Quality Assessment

* WQ Threshold: Mapped water quality values for river reaches that meet ‘inadequate’ threshold (WQPI >3), listed in increasing river order.
* WQ All: Mapped water quality values for all river reaches, listed by increasing river order.

## **Freshwater values**

### Biodiversity values

* Values
  + Fishes
    - Fish richness: Fish richness by river reach, categorized by number of species (1-201).
    - Endemic Fishes: Endemic fish species presence by river reach, categorized by number of species (1-9).
    - Threatened Fishes: Threatened fishes presence by river reach, categorized by number of species (1-7).
    - Long Migratory Fishes: Long migratory fish presence by river reach, categorized by number of species (1-5).
    - Short and Medium Migratory Fishes: Short and medium migratory fishes presence by river reach, categorized by number of species (1-8).
  + Flagship Species
    - Gharial: Gharial habitat by river reach, categorized into three categories (historical habitat, current habitat, gharial counted).
    - Dolphin: River dolphin habitat by river reach, categorized into three categories (historical habitat, current habitat, dolphin counted).
    - Mahseer: Mahseer presence by river reach, categorized by number of species (1-4).
  + Floodplain and riverain biodiversity
    - Rhino: Rhino bearing protected areas and their buffer zones.
    - Tigers: Tiger bearing protected areas and their buffer zones.
    - Otters: Otter habitat by river reach, categorized into three categories (current habitat, potential habitat, historical habitat).
    - Wetland Birds: River reaches that are important for wetland birds.
    - Critical Corridors: Critical corridors for species movement.
* Integrated Score: Integrated score (0-5), based on the biodiversity values, categorized by increasing river order.

### Recreation values

* Values
  + Angling: Angling sites by river reach, categorized into angling quality (poor, medium, good, very good) based on important gamefish species presence.
  + Rafting: Rafting river reaches, categorized into rafting type (only kayaking, only rafting, rafting and kayaking).
  + Trekking: River reaches that are important for trekking.
  + Protected Areas:
    - River reaches flowing through PAs
    - Protected Areas: Protected areas categorized by type (National Park, Wildlife Reserve, Hunting Reserve, Conservation Area, Bufferzone).
* Integrated Score: Integrated score (0-5), based on the recreation values, categorized by increasing river order.

### Livelihood values

* Values
  + Food and commercial values: Food and commercial values by river reach, categorized by number of fish species that have food and commercial value (1-129).
  + Water provision: Water provision values by river reach, ranked by importance (0-5).
* Integrated Score: Integrated score (0-5), based on the livelihood values, categorized by increasing river order.

### Socio-cultural values

* Values
  + Religious importance: River reaches that are of religious importance, categorized by importance (very low, low, medium, high, very high).
* Integrated Score: Integrated score (0-5), based on the socio-cultural values, categorized by increasing river order.

### **HCV Integration**

* River reach scale
  + HCV River Reach: River reach scale results listed by increasing river order.
* River scale
  + HCV DOM: Dominant HCV component listed by increasing river order.
  + HCV BB: HCV values at river scale listed by increasing river order
  + HCV BB Chart: Dominant HCV value by river
* HCV Typology: High conservation river typology (Type 1-4), listed by increasing river order.

**Ecosystem Representation**

* River classification: Classification of rivers into 29 categories.
* River sources/ influence: River sources/ influence categorized by source (glacier, glacier/ snow, snow, rain).