

GS SCORE

An Institute for Civil Services

UPSC PRELIMS

FACT FILES

ENVIRONMENT

**BIODIVERSITY HOTSPOTS,
BIOSPHERE RESERVES**

for Civil Services Examination



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IAS 2021-22

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BATCH STARTS

10
AUGUST
2020

OPTIONAL
FOUNDATION

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FOUNDATION

by: **Dr. Piyush Choubey**

STARTS: **30** JULY, 2020

HISTORY
FOUNDATION

By: **Piyush Kumar**

BATCH STARTS: **20** JULY, 2020

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PRELIMS CUM MAINS

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2020

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TEST SERIES**

BATCH STARTS

2 AUGUST
2020

IAS 2021
MAINS TEST SERIES
**GS MAINS
Q & A**

BATCH STARTS

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2020

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**MAINS
ADVANCE**

BATCH STARTS

16 AUGUST
2020

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BIODIVERSITY HOTSPOTS, BIOSPHERE RESERVES

Biodiversity Hotspots

- A biodiversity hotspot is a region with a **high level of endemic species** that are under threat from humans.
- **The term hotspot was introduced in 1988 by Norman Myers.**
- According to the Conservation International the criteria for determining a hotspot are:
 - ▶ The area should support **>1500 endemic species,**
 - ▶ It must have **lost over 70 % of the original habitat**
- The **North American Coastal Plains** is the latest addition to the list of Biodiversity Hotspot of the world to become the 36th Biodiversity Hotspot. (Quantitative analysis showing the probability of extinction in wild in at least 50% in their 10 years)
 - ▶ It is therefore considered to be facing an extremely high risk of extinction in the world.

World's 36 Biodiversity Hotspots

I. Africa

- Cape Floristic Region
- Coastal Forests of Eastern Africa
- Eastern Afro-montane
- Guinean Forests of West Africa
- Horn of Africa
- Madagascar* **It has been declared as the hottest hotspot.**
- Maputaland-Pondoland-Albany
- The Succulent Karoo

NOTE: Eastern and Coastal Forests of Tanzania/Kenya have been declared as the hottest hotspot.

II. Asia-Pacific

- East Melanesian Islands
- Himalaya
- Indo-Burma
- Japan
- Mountains of Southwest China
- New Caledonia
- New Zealand
- Philippines
- Polynesia-Micronesia
- Southwest Australia
- Forests of Eastern Australia (new)
- Sundaland

- Wallacea
- The Western Ghats and Sri Lanka

III. Europe and Central Asia

- Caucasus
- Irano-Anatolian
- Mediterranean Basin
- Mountains of Central Asia

IV. North and Central America

- California Floristic Province
- Caribbean Islands* **It has been declared as the hottest hotspot.**
- Madrean Pine-Oak Woodlands
- Mesoamerica
- North American Coastal Plains

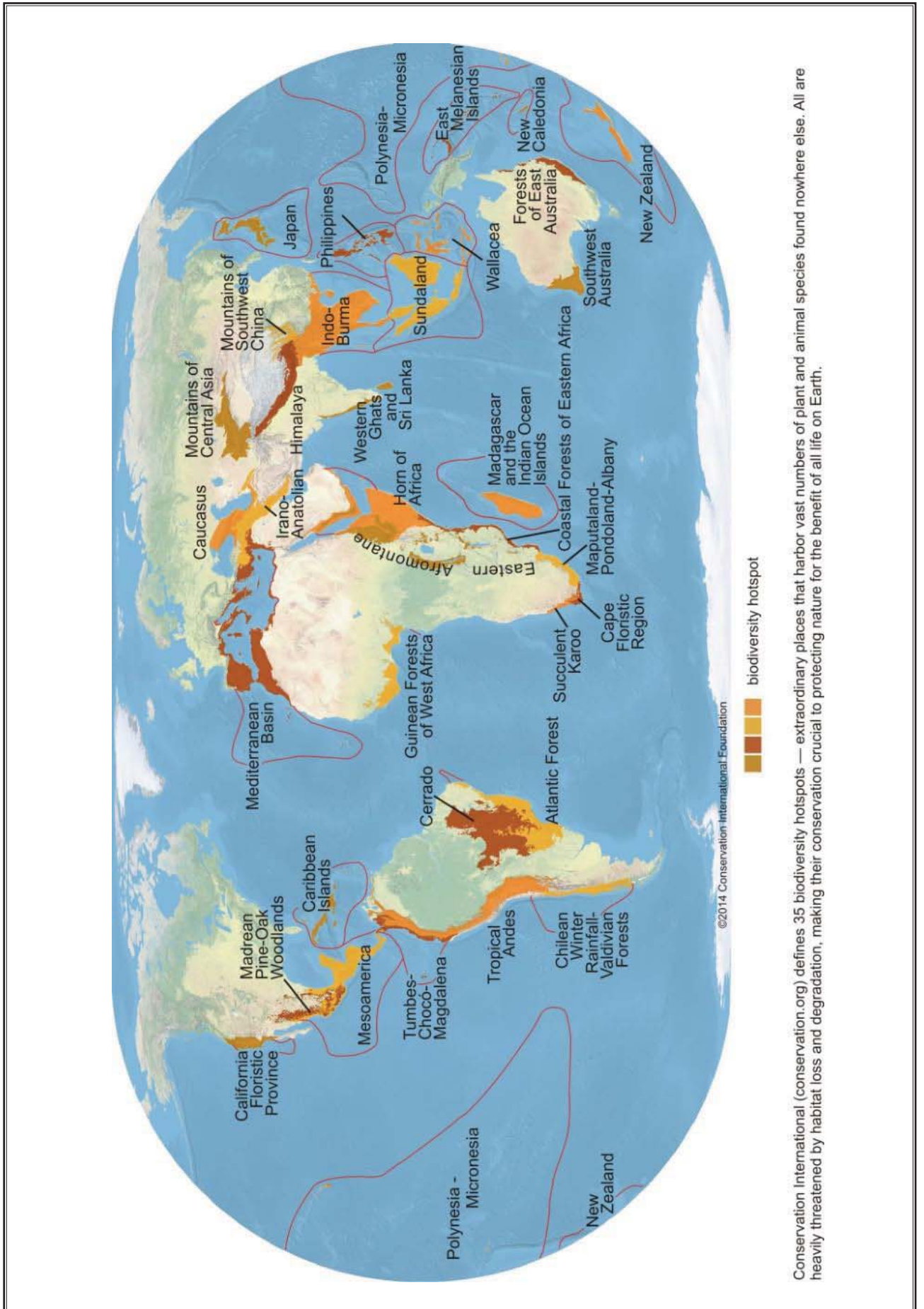
V. South America

- Atlantic Forest* **It has been declared as the hottest hotspot.**
- Cerrado
- Chilean Winter Rainfall-Valdivian Forests
- Tumbes-Chocó-Magdalena
- Tropical Andes

Biodiversity Hotspots in India

- **Himalaya:** Includes the entire Indian Himalayan region (and that falling in Pakistan, Tibet, Nepal, Bhutan, China, and Myanmar).
- **Indo-Burma:** Includes entire North-eastern India, **except Assam and Andaman group of Islands** (and Myanmar, Thailand, Vietnam, Laos, Cambodia, and southern China).
- **Sundaland:** Includes Nicobar group of Islands (and Indonesia, Malaysia, Singapore, Brunei, Philippines).
- **The Western Ghats and Sri Lanka:** Includes entire Western Ghats (and Sri Lanka).

NOTE: Except Himalaya Hotspot, other biodiversity hotspots in India have been declared as the hottest hotspot.



Conservation International (conservation.org) defines 35 biodiversity hotspots — extraordinary places that harbor vast numbers of plant and animal species found nowhere else. All are heavily threatened by habitat loss and degradation, making their conservation crucial to protecting nature for the benefit of all life on Earth.

IAS 2021 INTEGRATED TEST SERIES for MAINS & PRELIMS

Single Source for Integrated Preparation

TOTAL NO OF
93
TESTS:

MAINS

TOTAL NO OF TESTS: **49**

- | | |
|-----------|-----------------------------|
| 30 | GS Mains Topical Tests |
| 08 | GS Sectional Revision Tests |
| 03 | Essay Mock Tests |
| 08 | GS Mock Tests after Prelims |

PRELIMS

TOTAL NO OF TESTS: **44**

- | | |
|-----------|-----------------------|
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| 06 | Current Affairs Tests |
| 05 | Revision Tests |
| 06 | Sectional Tests |
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| 06 | Mock Tests |

BATCH -1 Starts:

25 JULY, 2020

Programme Fee

₹ 30,000 + GST

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Biodiversity Hope Spots

- Hope Spot are special places that are critical to the health of the ocean.
- Dr.Sylvia Earle introduced the concept of Hope Spot because a very less number i.e. only 6% of the ocean is protected while comparing with the land which is 12% protected.
- Hope Spot Network is a joint initiative of Mission Blue and International Union Of Conservation of Nature (IUCN).
- The Andaman and Nicobar and the Lakshadweep islands have been designated as 'Hope Spots' by the International Union for Conservation of Nature (IUCN) in 2013. The two islands are the first spots in India to be named hope spots and part of 31 new spots across the world in addition to the existing 19 hope spots.

Biosphere Reserves

- The first biosphere reserve of the world was established in 1979. There are 701 Biosphere reserves across 124 countries in the world which also include 21 trans-boundary sites.
- The largest Biosphere reserve in India is the Gulf of Mannar and the smallest Biosphere Reserve in India is Panna in Madhya Pradesh.

S. No	Year	Name	State	MAB List	Type	Key Features
1	1986	Nilgiri Biosphere Reserve	Tamil Nadu, Kerala, and Karnataka	2000	Western Ghats	<p>Key Species: NilgiriTahr, Lion-Tailed Macaque</p> <p>National Parks: Mukurthi National Park, Bandipur National Park, Nagarhole National Park, Silent Valley National Park</p> <p>Wildlife Sanctuary: Mudumalai Wildlife Sanctuary, Wayanad Wildlife sanctuary</p>
2	1988	Nokrek	Meghalaya	2009	East Himalayas	<p>Key Species: Asian Elephants and Red Panda</p>
3	1988	Nanda Devi	Uttarakhand	2004	Western Himalayas	<p>Key Species: Nilgiri Tahr, Snow leopard, Himalayan Black Bear, and bharal/ blue sheep.</p> <p>Drained by Rishi Ganga</p>

4	1989	Great Nicobar Biosphere Reserve	Andaman and Nicobar Islands	2013	Islands	Key Species: Saltwater Crocodile National Parks: Cambell Bay National park, Galathea National Park
5	1989	Gulf of Mannar	Tamil Nadu	2001	Coasts	Key Species: Dugong or Sea Cow The estuaries of Thamirabarani River of south India
6	1989	Sundarbans	West Bengal	2001	Gangetic Delta	Key Species: Royal Bengal Tiger It is the largest single block of tidal halophytic mangrove forest in the world To the east it is bordered by the Baleswar River
7	1989	Manas	Assam		East Himalayas	Key Species: Golden Langur, Red Panda, Bengal Florican, Pygmy Hog Manas River
8	1994	Simlipal	Odisha	2009	Deccan Peninsula	Key Species: Gaurs, Royal Bengal Tiger, Wild elephant Waterfalls like Joranda and Barehipani Santhal tribal settlements, Meghasani, the highest peak in the national park
9	1997	Dibru-Saikhowa	Assam		East Himalayas	Key Species: Golden Langur Rivers: Brahmaputra River; Lohit River; Dibru River
10	1998	Dihang-Dibang	Arunachal Pradesh		Eastern Himalaya	Key Species: Red Panda, Asiatic Black Bear National Parks: Mouling National Park Wildlife Sanctuary: Dibang Wildlife Sanctuary
11	1999	Pachmarhi Biosphere Reserve	Madhya Pradesh	2009	Semi-Arid	Key Species: Giant Squirrel, Flying Squirrel, Chinkara, Nilgai, Wild Dogs

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IAS 2021

GS MAINS ADVANCE

GS Paper 1, 2, 3, 4 + Essay + Mains Test Series

A Solution for 1250 Marks

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BATCH STARTS

16 AUGUST

6:00 PM to 8:30 PM

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						Satpura National Park, Bori Sanctuary, Pachmarhi Sanctuary
12	2000	Khangchendzonga	Sikkim	2018	East Himalayas	Key Species: Snow Leopard, Red Panda, Sloth Bear, Russell's Viper There are many glaciers in the park famous one is Zemu Glacier
13	2001	Agasthyamalai Biosphere Reserve	Kerala, Tamil Nadu	2016	Western Ghats	Key Species: NilgiriTahr, Elephants, Lion Tailed Macaques Wildlife Sanctuary: Kalakkad Mundanthurai Tiger Reserve (TN), Neyyar Wildlife Sanctuary Peppara Wildlife Sanctuary, Shenduruny Wildlife Sanctuary.
14	2005	Achanakamar - Amarkantak	Madhya Pradesh, Chhattisgarh	2012	Maikala Hills	Key Species: Chital, Wild Bear, Leopard, Tiger Panthera, striped Hyaena. Rivers: The Narmada, the Johilla and the Son River
15	2008	Great Rann of Kutch	Gujarat		Desert	Key Species: Indian Wild Ass Rivers: Luni River drains into it Wildlife Sanctuary: Indian Wild Ass Sanctuary, Kutch Desert Wildlife Sanctuary, Narayan Sarovar Sanctuary, Kutch Bustard Sanctuary Banni Grasslands Reserve and Chari-Dhand Wetland Conservation Reserve
16	2009	Cold Desert	Himachal Pradesh		Western Himalayas	Key Species: Snow Leopard National Park: Pin Valley National Park Wildlife Sanctuary: Kibber Wildlife Sanctuary; Sarchu Wildlife Sanctuary
17	2010	Seshachalam Hills	Andhra Pradesh		Eastern Ghats	Key Species: Red Sanders and Slender Loris.

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GS MAINS

Q & A

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Notes with
Answers

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GS Topical
Notes

Ethics
Case Study
Workbook

Essay Practice
Workbook

1200⁺ Question
Answer Practice
Workbook

Batch-1 Starts **8** August, 2020

₹ FEE

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Sectional: ₹ 22,000/- (+GST)

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18	2011	Panna	Madhya Pradesh	Ken River	<p>Key Species: Tiger, Chital, Chinkara, Sambhar and Sloth bear</p> <p>River: Ken River passes through it</p>
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- o The **first Biosphere Reserve in India is the Nilgiri Biosphere Reserve** that is a part of Tamil Nadu, Karnataka, and Kerala.
- o **NOTE:** The Bold Biosphere Reserves have been included in UNESCO’s MAB List.



IAS MAINS 2020

LIVE & INTERACTIVE CLASSES

MAINS 2020 CLASSES

- 1 GS MAINS QIP
- 2 ETHICS CLASSES
- 3 ESSAY CLASSES
- 4 POL. SC. ADVANCE
- 5 PUB AD. ADVANCE

MAINS 2020 TEST SERIES

- 1 GS MAINS TEST SERIES
- 2 ETHICS & ESSAY TEST SERIES
- 3 POL. SC. TEST SERIES
- 4 PUB. ADM. TEST SERIES
- 5 HISTORY TEST SERIES

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IAS PRELIMS 2020 ONLINE

01

TARGET PT 2020

45 Days Online Prelims Classes through 4000+ MCQ

02

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PRELIMS PRACTICE PROGRAMME | TOTAL: 65 TESTS

03

CSAT Online Classes

4 WEEKS CSAT ONLINE CLASSES

04

PRELIMS MOCK TEST

TOTAL: 20 TESTS

05

PRELIMS Test Series

COMPLETE REVISION TESTS | TOTAL: 38 TESTS

06

Current Affairs Classes

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