

Tiger Translocation for Genetic Diversity

Source: HT

Why in News?

Recently, the **Odisha** government translocated a **tigress named Jamuna** from **Tadoba Andhari Tiger Reserve** in Maharashtra to the **Similipal Tiger Reserve** (STR) in Odisha.

 Translocation was aimed at enhancing genetic diversity in Similipal, where there are concerns about inbreeding due to a small population.

What are Key Facts About this Translocation?

- Previous Translocation Attempts: In 2018, a tigress named Sundari was relocated to <u>Satkosia Tiger Reserve</u>, Odisha.
 - The <u>National Tiger Conservation Authority (NTCA)</u> gives approval for the translocation project.
- Translocation of Black Tigers:
 - Population: The Odisha Tiger Estimation conducted in 2024 found a total 24 adult tigers in Similipal, with a notable presence of pseudo-melanistic tigers.
 - STR is the **only habitat** where these **black tigers** are found in the wild.
 - Inbreeding Concerns: The high number of pseudo-melanistic tigers (13 out of 24 adults) in Similipal raises concerns about inbreeding and lack of genetic flow, prompting the need for external genetic input.
 - Future Initiatives: Plans are in place to establish a melanistic tiger safari in Similipal, which would be the first of its kind in the world.

Note:

- Black or pseudo-melanistic tigers exist because of a genetic trait that creates a unique phenotype and indicates a lack of genetic diversity.
 - They are characterised by wide and merged stripes

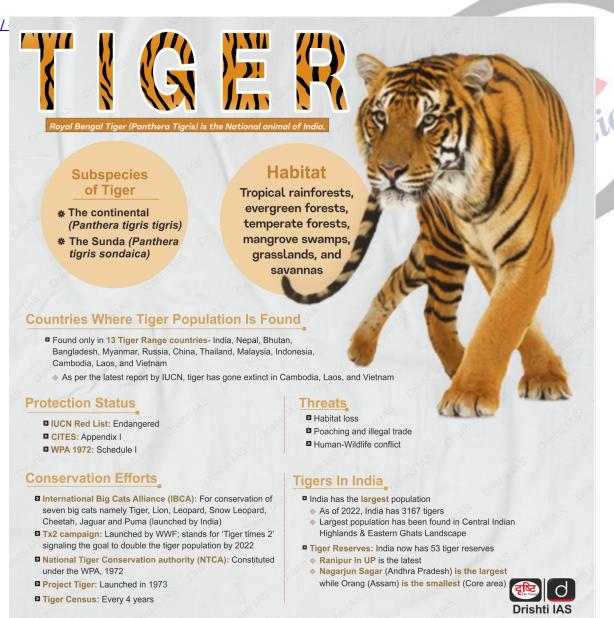
What are the Key Facts About Similipal Tiger Reserve?

- Location: Similipal tiger reserve and national park is located in Odisha's Mayurbhanj district.
 - It was designated as a tiger reserve under Project Tiger in 1973.
 - In 2009, UNESCO included Simlipal National Park in its list of Biosphere Reserve.
- Geography: Joranda and Barehipani waterfalls and Khairiburu and Meghashini peaks are located in Simlipal national park.
 - Burhabalanga, Palpala Bandan, Salandi, Kahairi, and Deo rivers pass through it.
 - It is named after the 'Simul' (Silk Cotton) tree.
- Biodiversity: Forest type is primarily dominated by tropical moist deciduous forests.
 - Mammals: <u>Tigers</u>, <u>leopards</u>, sambar deer, barking deer, gaurs, jungle cats, wild boars,

- four-horned antelopes, giant squirrels, and common langurs.
- Avian Species: <u>Grey hornbills</u>, Indian pied hornbills, and Malabar pied hornbills.
- Reptile: Mugger crocodiles inhabit Khairi and Deo Rivers.
- Indigenous Population: It is inhabited by indigenous tribes like Kolha, Santhala, Bhumija, Bhatudi, Gondas, Khadia, Mankadia, and Sahara.
 - The tribals worship **sacred groves** called **Jharia**.

What are the Key Facts About Tadoba Andhari Tiger Reserve?

- Location: It is situated in Maharashtra and is the oldest and largest national park in the state.
 - Tadoba/Taru is the local deity revered by the tribal people in the area.
 - Andhari is derived from the Andhari river which flows through the reserve.
- Geography: It contains two primary lakes, Tadoba Lake and Kolsa Lake, along with the Tadoba River.
- Biodiversity:
 - Flora: <u>Teak</u>, semal<u>, tendu</u>, beheda, karaya gum, mahua madhuca, arjun, <u>bamboo</u> etc.
 - **Fauna:** Tigers, Indian leopards, sloth bears, gaurs, nilgai, **dholes**, small Indian civets, sambars, **spotted deer, barking deer, and chital**.



UPSC Civil Services Examination, Previous Year Questions (PYQs)

Prelims

Q. Among the following Tiger Reserves, which one has the largest area under "Critical Tiger Habitat"? (2020)

- (a) Corbett
- (b) Ranthambore
- (c) Nagarjunasagar-Srisailam
- (d) Sundarbans

Ans: (c)

Q. Consider the following protected areas: (2012)

- 1. Bandipur
- 2. Bhitarkanika
- 3. Manas
- 4. Sunderbans

Which of the above are declared Tiger Reserves?

- (a) 1 and 2 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

Ans: (b)

PDF Reference URL: https://www.drishtiias.com/printpdf/tiger-translocation-for-genetic-diversity