

Climate Change Issues – Building Resilience and Reversal of Global Warming



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Climate Change Issues – Building Resilience and Reversal of Global Warming

Presentation Overview

- ✧ **Climate Change Issues and Impacts**
- ✧ **General Observation**
- ✧ **Impacts on Rivers and Species due to Global Warming**
- ✧ **Effort towards Reversal of Global Warming**
- ✧ **Building Climate Resilience**
- ✧ **Complexities and Constraints**
- ✧ **Working together to face this challenge**



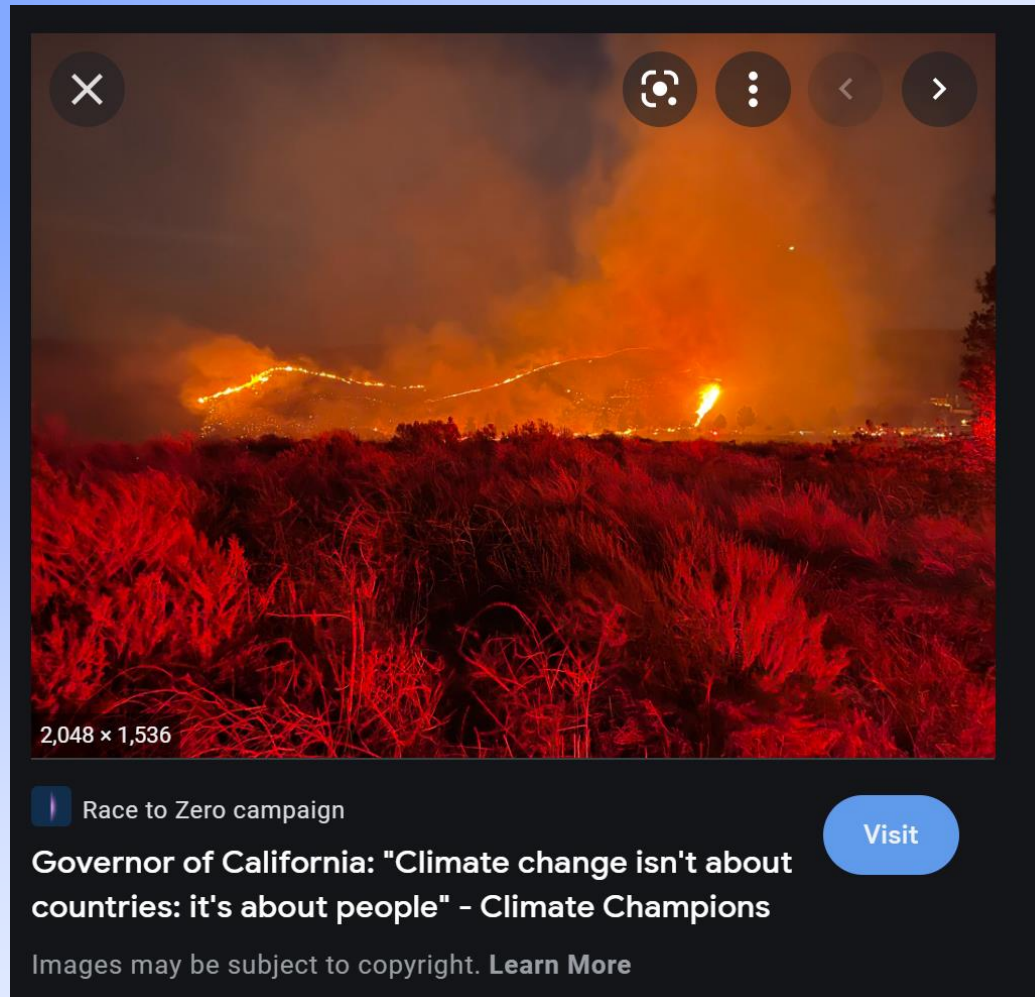
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Glacier Breaks in Uttarakhand Leads to Deadly Flooding

February 2, 2022

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California's 2021 wildfire caused Extreme Problems

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Climate Change Issues and Impacts

Impacts on Rivers and Watersheds

- ❖ Rivers are drying and the water temperatures are on the rise
- ❖ Temperature-Sensitive species, such as the River Dolphins are slowly becoming extinct.
- ❖ Recent Yamuna River Study from Delhi to Chambal River Confluence
 - ◆ carbon dioxide (CO₂); ◆ methane; ◆
 - ◆ nitrous oxide; ◆ fluorinated gases

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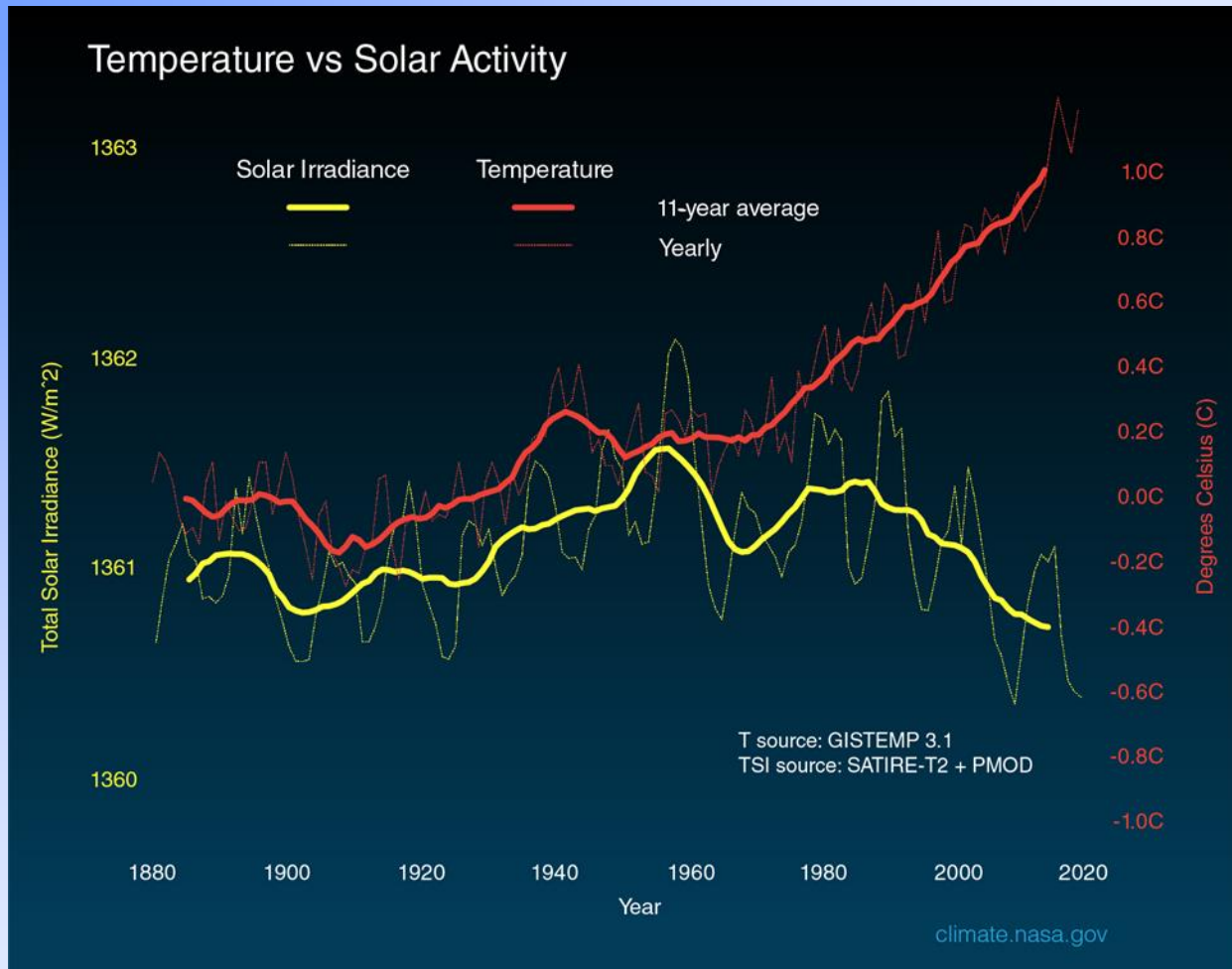
A report on climate change by NASA provided significant research data to reach almost identical conclusions as the European Commission (NASA, 2020).

- Figure 2.2 below compares global surface temperature changes and the Sun's energy that Earth receives in watts per square meter since 1880. The lighter/thinner lines show the yearly levels while the heavier/thicker lines show the 11-year average trends. Eleven-year averages are used to reduce the year-to-year natural noise in the data, making the underlying trends more obvious.

Figure 2.2 Global Surface Temperature Changes and the Solar Irradiance (Source: NASA, 2020, Credit: NASA/JPL-Caltech)

The amount of solar energy that Earth receives has followed the Sun's natural 11-year cycle with small ups and downs with no net increase since the 1950s. Over the same period, global surface temperature has risen markedly. It is therefore extremely unlikely that the Sun has caused the observed global temperature warming trend over the past half-century.

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Education/Awareness for Reducing Global Warming
Setup Climate Change Centers

ROW/S&M Engineering plan to –

- approach a number of organizations who are active on the climate change.
- Create Climate Change Centers
- Arrange For Schools/colleges and other organizational day visits
- Develop small monitoring tools to provide to rural people

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Effort towards Reversal of Global Warming

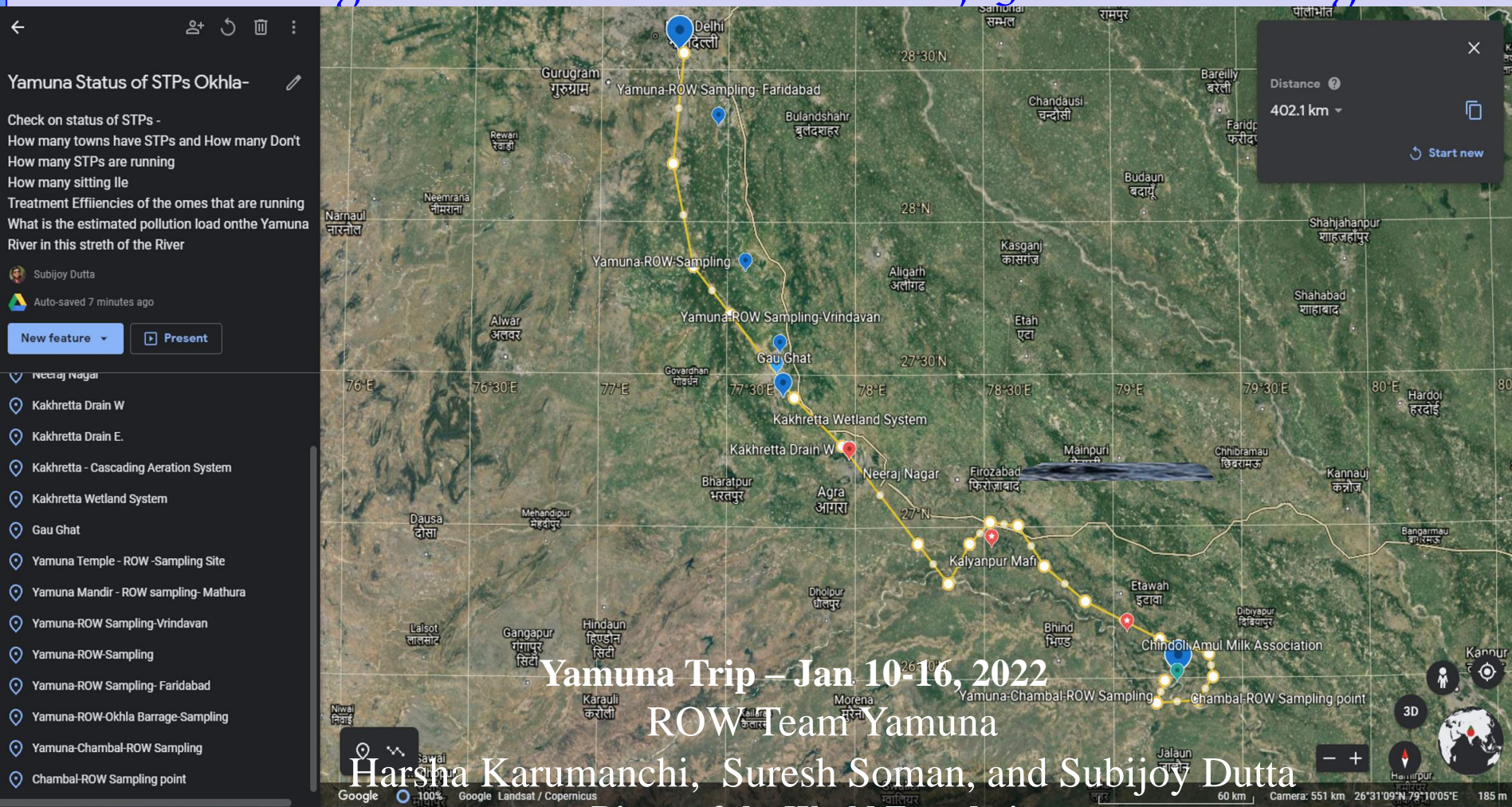
An open learning center for Schools and Communities – Can be arranged with a local School or Organization jointly to engage groups of students and communities by arranging day trips to learn about the water and the Impacts of Climate Change. Recent Disasters can be highlighted such as -

- + Global Warming
- + Flood
- + Fire
- + Drought
- + Retreating glaciers
- + Rise in sea level

Demonstrate to students and communities about the importance of protecting water and environment and show what they can do to reverse the trend of global warming to avoid disasters due to climate change.

✧ **Impacts on Rivers and Species due to Global Warming**

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आगरा से पहली बार इस प्लेटफॉर्म पर उठा यमुना के पुनरुद्धार का मामला

पर्यावरण प्रेमी लंबे समय से विभिन्न प्लेटफॉर्म पर यमुना की साफ-सफाई की मांग उठा रहे हैं। इस मुहिम को शहर के लोगों के साथ ही अन्य क्षेत्रों से भी काफी समर्थन मिल रहा है।



by समाचार4मीडिया ब्यूरो

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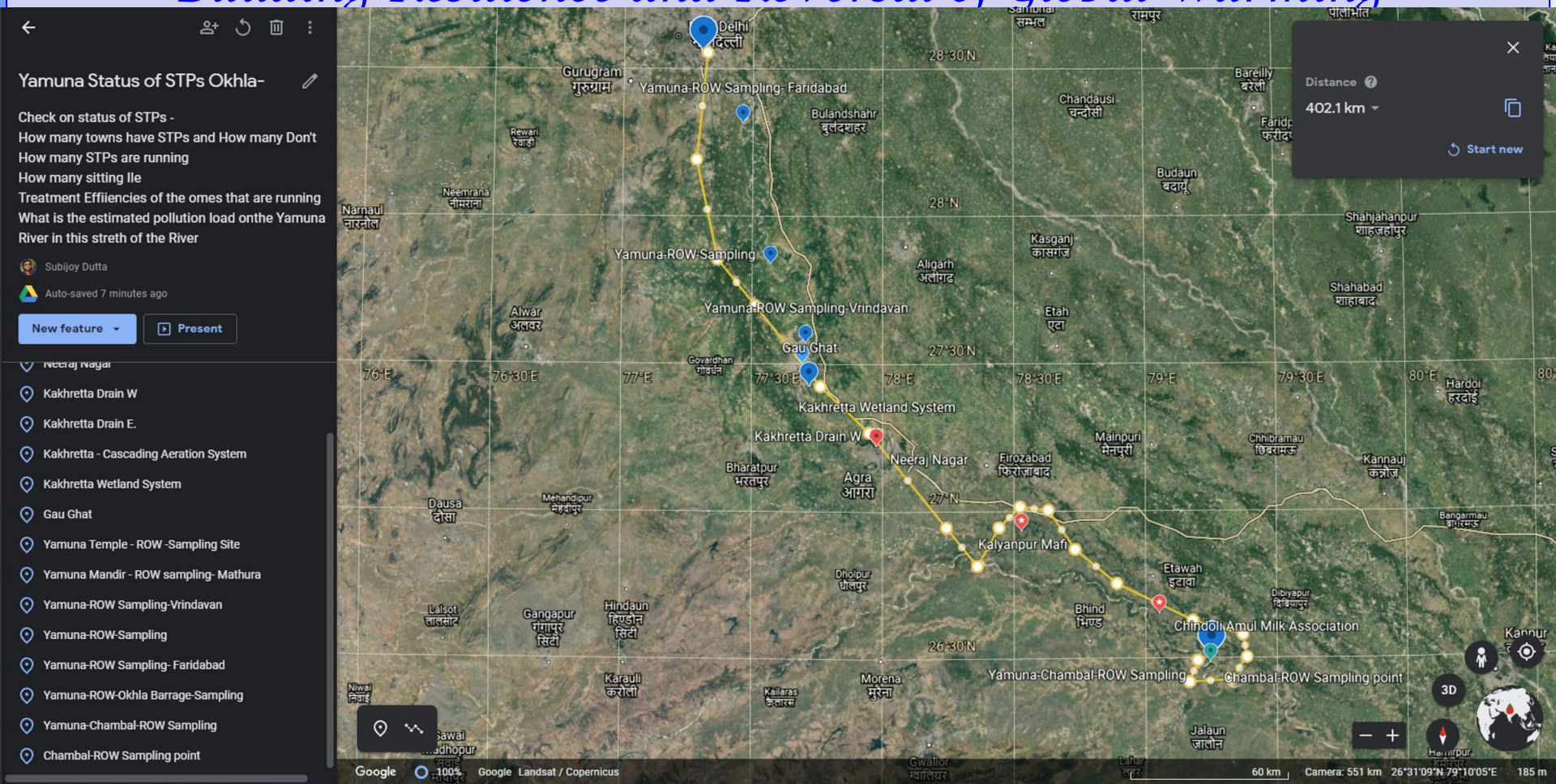


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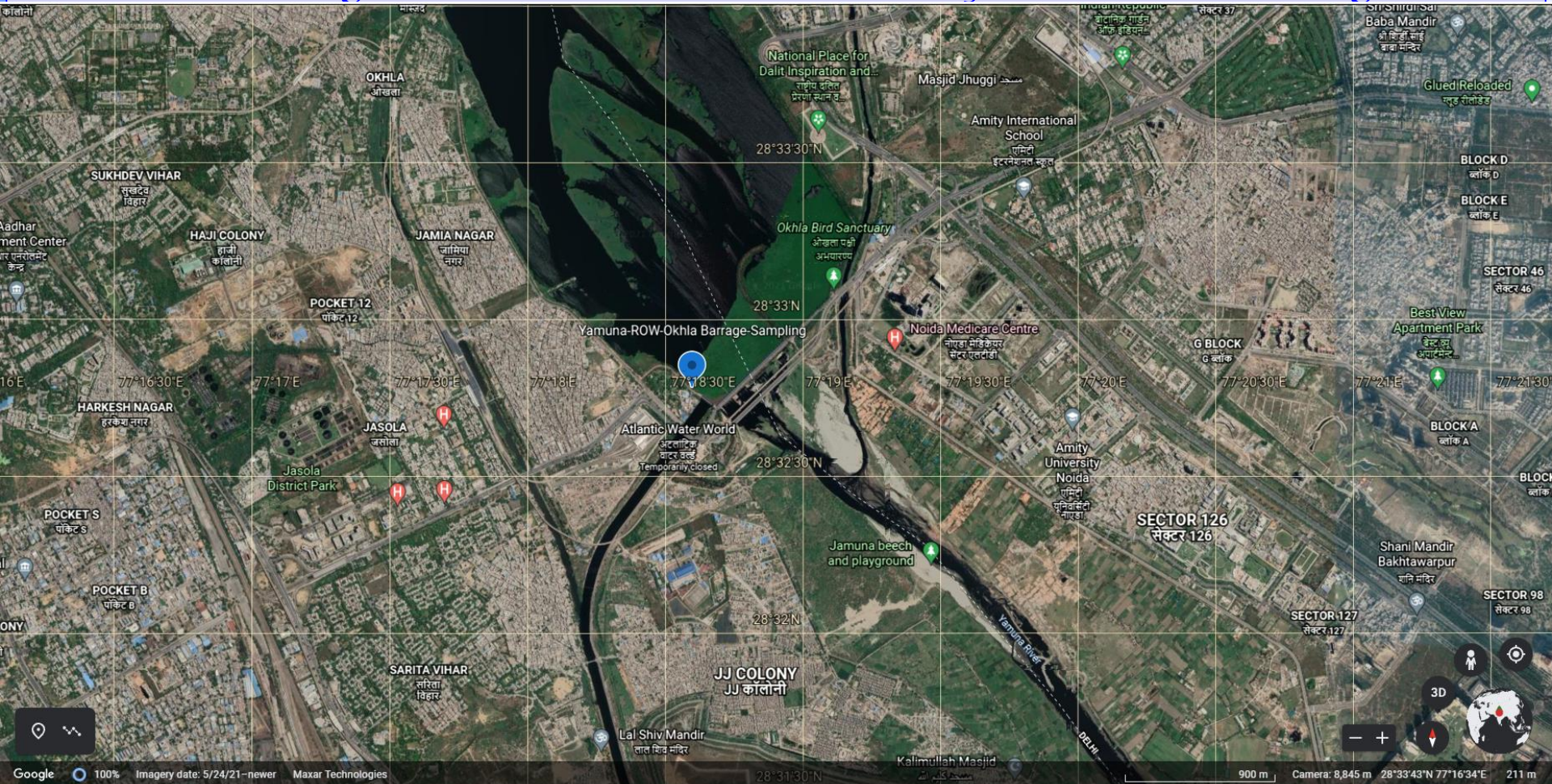
उत्तर प्रदेश के आगरा में यमुना नदी के कायाकल्प और सफाई के मुद्दे को पहली बार डिजिटल प्लेटफॉर्म पर उठाया गया है। रिवर कनेक्ट कैम्पेन के तहत 'चेंज डाट ओआरजी' (change.org) के माध्यम से यह ऑनलाइन पिटीशन की गई है।

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Map Showing the latest available (October 8, 2020) imagery of Yamuna Watershed
With selected towns marked with blue dots for STP survey and WQ checking
January 10 - 16, 2022

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Pic1 – Starting point – Okhla Dam, New Delhi

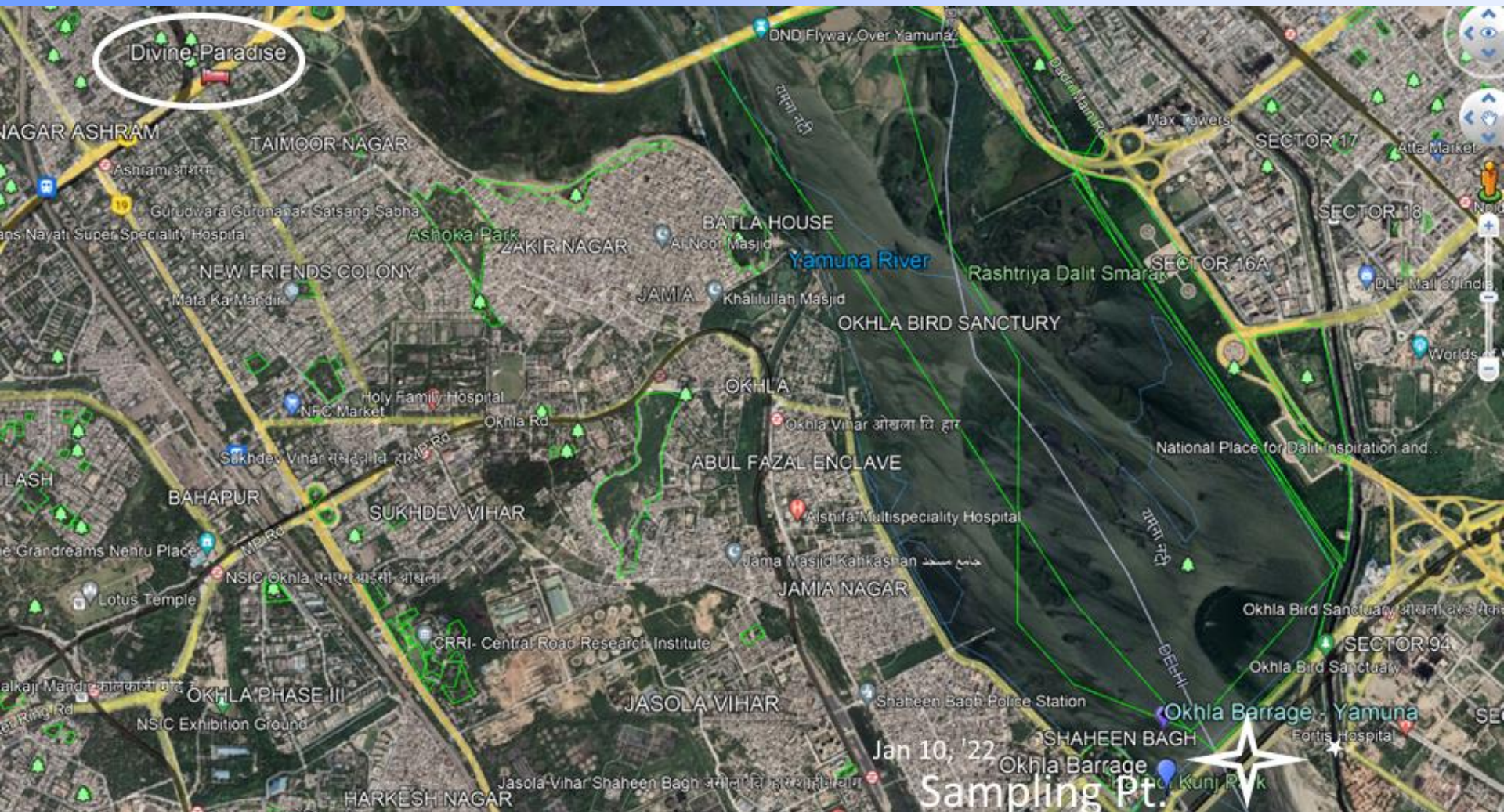
Picture PXL_20211011_202601339.jpg

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Pic 2 – Ending point Yamuna-Chambal Confluence
Coverage – 441 Km One-way

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See some Yamuna and Chambal Pictures

<https://photos.app.goo.gl/7bmuFYTenbbQmrwm9>

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Rajasthan (Alawar area) with Mr. Rajendra Singh (known to me for the past ~20 years,

I visited several rural villages and Schools with Rajendra Singh during the past two days and evenings, where people are facing a lot of health issues due to poor drinking water quality of the borewells. Tested -

- 15 community wells and household drinking water wells
- discussed with Mr. Rajendra Singh and the village head/chairman of the several gram Panchayats about-
- installation of spun and ultra/microfilters combination to provide clean drinking water to these villages.
- ROW Foundation identified 10 water sources in these villages where ROW Foundation can install these filters at a participatory total (ROW) cost of \$10,000.
- The village communities and Tarun Bharat Sangh will provide additional \$5,000, mostly in kind with local labors, construction of structure and reliable water supply and electric lines to and from the pumps .

See pictures of the impacted school children and villagers a the link below:

<https://photos.app.goo.gl/7bmuFYTenbbQmrwm9>

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QUESTIONS?



Please send questions or comments to –
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