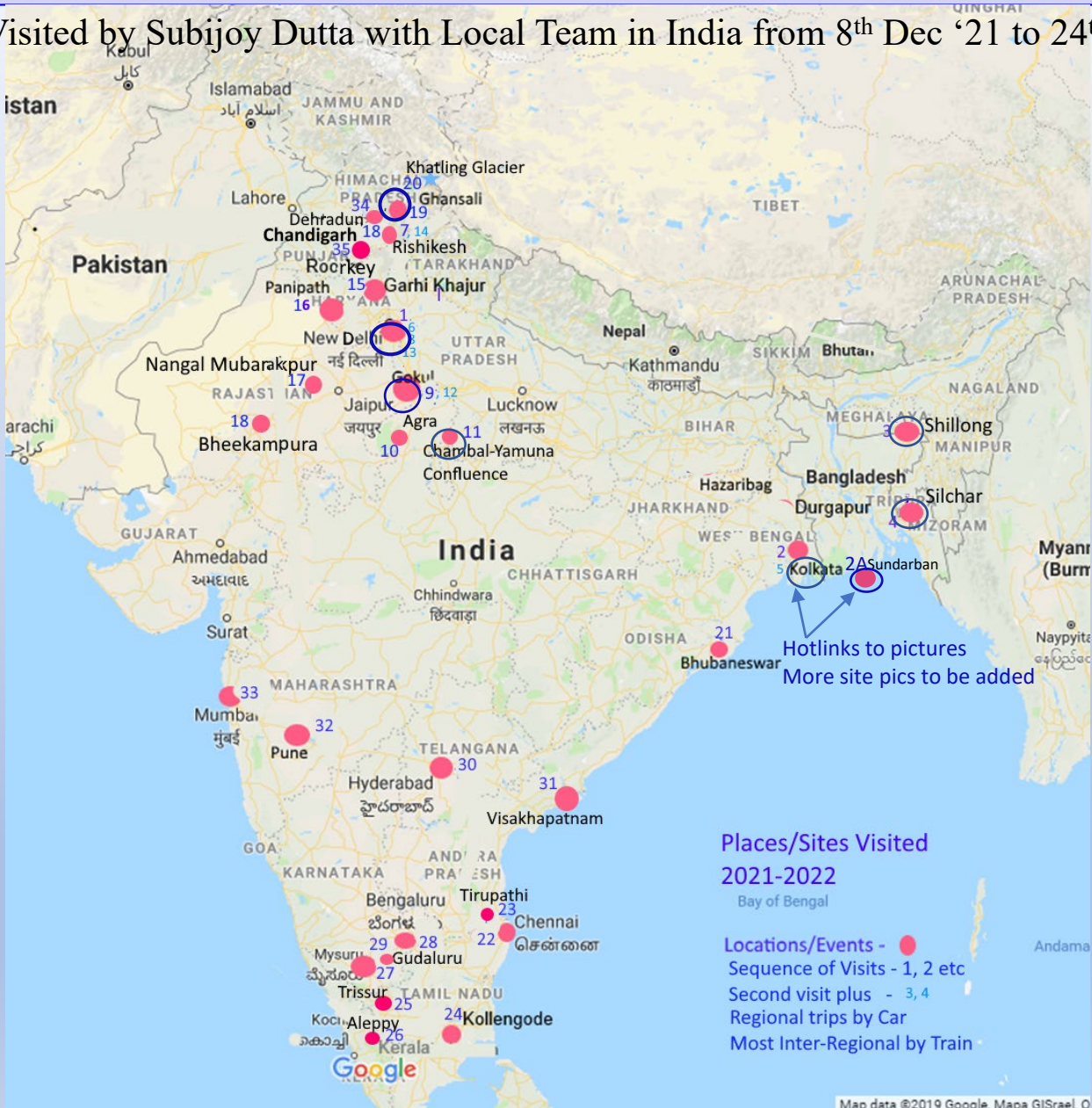




Subijoy Dutta, P.E., Proprietor/Director  
S&M Engineering, *LLC*  
1496 Harwell Avenue.  
Crofton, MD 21114 USA  
[www.snmengineering.com](http://www.snmengineering.com)

# New Technologies and Approaches to Build Climate Resiliency & Reversal of Global Warming

Places/Sites Visited by Subijoy Dutta with Local Team in India from 8<sup>th</sup> Dec '21 to 24<sup>th</sup> May, '22





# New Technologies and Approaches to Build Climate Resiliency & Reversal of Global Warming

Subijoy Dutta /S&M Engineering – Trip to India Dec. 8, 2021 to May 25, 2022. M +91 98119-50643

**Dec. 2021**

DECEMBER 2021	Mon	Tue	Wed	Thurs	Friday	Saturday
<b>5</b>	6	7	8 Arrive Delhi from Washington, Dulles Airport	9 Fly to Kolkata	10 Looked at sites in Kolkata area	11 Kolkata
<b>12 Dec. 2022</b> Basudev Puja).	13 Birati, Kolkata stay - meet Axis plus.	14 By Train to Guwahati	15	16	17	18
<b>19</b>	20 By Train to Guwahati	21 Visit Gautam L. – Explore Assam projects on water and environment	22 Visit Shillong – Chief Secy. Meghalaya – Env. Analysis need	23- Sucharit travels to Gau.	24 Sucharit travels to Shillong	25 Shillong Merry Christmas
<b>26</b> Travel to Silchar in Car (208 Km) – Hill Road with occasional Landslides	27 Ramkrishna Nagar. Stay in Karimganj	28 Return to Silchar	29 Stay with Dr. K.K Das. Discuss Environmental Book (Med. Waste) promotion	30 Fly to Kolkata	31 Kolkata	1 New Year's Day 2022

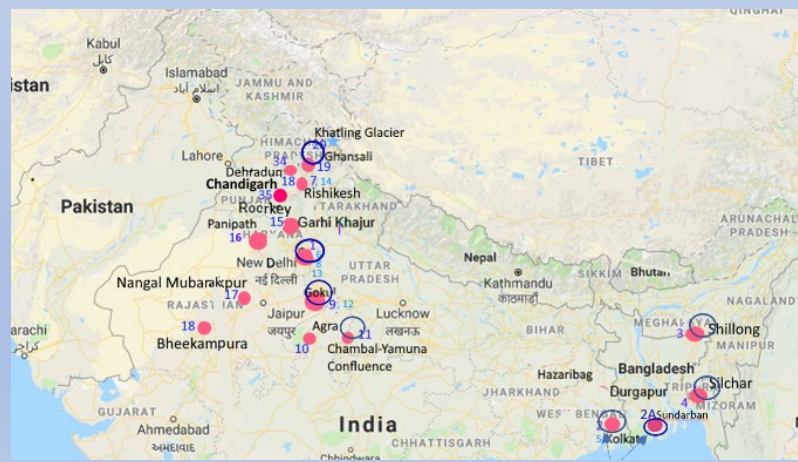


JANUARY 2022	Mon	Tue	Wed	Thurs	Friday	Saturday
<b>2</b>	3 Leave for Delhi by Express Train – Covid Safe Cabin	4 Arrive Delhi 11:00 AM- Meet Team – Car to Rishikesh	5 Dehradun Institute of Himalayan Geology.	6 Travel to Ghansali	7 Ghansali – MSW issue	8 Ghansali Rishikesh-Delhi
<b>9</b>	10 Gokul, Uttarakhand – W/W issues – Sites visited w/ Team	11 Visited Existing STPs in the area,	12 Visit Yamuna Ghat + Agra (Yamuna River) – Car to Etawah (Stay)	13 Explore Chambal River, MP	14 Agra STP	15 Gokul Stay
<b>16</b>	17 Delhi – Discuss with GBI - Shradha	18 Visit Bheekampura, Rajasthan – Water issues	19 Bagola, Rajasthan	20 Delhi	21 Dehradun	22 Rishikesh -
<b>23</b> Delhi	24 Delhi – by Express Train to Kolkata	25	26	27 Environmental Training – SOA Univ. by Zoom	28	29
<b>30</b>	31					

# New Technologies and Approaches to Build Climate Resiliency & Reversal of Global Warming

FEBRUARY 2022						
SUN	Mon	Tue	Wed	Thurs	Friday	Saturday
		1	2	3	4	5
	7	8	9	10	11	12
6						
13	14	15	16	17	18 Kolkata → Guwahati →	19 Arrive Guwahati → Shillong
20 Shillong → Silchar By Car	21 Silchar → Hailakandi → Karimganj, Assam – Ckt. House	22 Ramkrishnanagar Rural Assam. Land improvement (Terrace )	23	24 Silchar at SMSB – Med Waste Management	25	26
27 Car to Shillong	28 Stay at Nongthymmai					

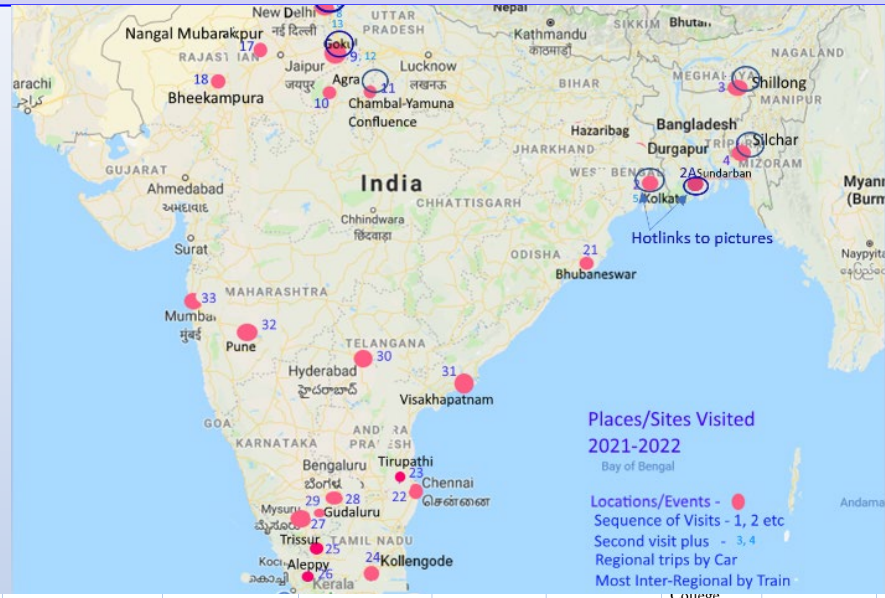
MARCH 2022						
SUN	Mon	Tue	Wed	Thurs	Friday	Saturday
		1 Stay at Shillong	2 Car to GAU. Guwahati → Kolkata Train	3 Arrive Kolkata 7:15 AM	4 Kolkata	5 Kolkata
6 Kolkata	7 Work on providing professional Training Webinars	8 Webinar preparation	9 Discuss w/ chairman of a local Coop Society	10 Environmental Technologies Webinar – Half Moon & Associates	10 Covid-19 Waste Management Webinar – Half Moon & Associates	12 Kolkata
13 Kolkata	14 Meet with Local Organizations	15 Kolkata Nabadarsha Coop.	16 Explore WB MSW	17 Kolkata	18 Kolkata	19 Kolkata
20 Kolkata	21 Kolkata	22 Sealdah – Train	23 New Delhi	24 Rajasthan Dhaulapur	25 Rajasthan, Masalpur, - site visits. Stay at Bharatpur- Hotel Haveli	26 Car to Gokul and Stay Guest House (new)
27 WWD 2022 Gokul	28 Delhi- Stay at DP	29 DP Stay – Delhi sites	30 Immigrant Community – WWD 2022 → Yamuna Nagar	31 Yamuna Nagar WWD 2022		





# New Technologies and Approaches to Build Climate Resiliency & Reversal of Global Warming

APRIL 2022						
SUN	Mon	Tue	Wed	Thurs	Friday	Saturday
					1 Visit Girish Chaudhry-Karnal, Haryana S&M Promotion	2 Stay in Karnal
3 In Karnal	4 Leave for Dehradun	5 Dehradun → Ghansali	6 WWD 2022 – HES, Ghansali Leave for <u>Guttu/Kopridhar</u>	7 <u>Khatling</u> Glacier	8 Stay at <u>Kopridhar</u> observatory	9 Ghansali
10 Dehradun	11 Dehradun – met Bhajan Singh, ex-MD, <u>PeyJal</u> (Uttarakhand Water Board)	12 Leave for Delhi	13 Train to Chennai	14 Train – all day	15 Arrive Chennai at 6:05 AM. Leave at 9:40 PM for Palakkad. Visited <u>Tirupathi</u> during the Day	16 Arrive Palakkad – Anil Kumar, CEO Sri Projects.
17 Visited nearby lake and Streams – Checked WQ	18 Trissur by Car. <u>Aleppi</u> – Stay at Hotel Royale Park	19 Visit Flooded area – Climate-Resiliency Project	20 <u>Aleppi</u> area and South	21 Tamarind Hotel, KTDC Nilambur, Kerala	22 Drive through <u>Gudaludu</u> (Ooty) area. Car to Mysore	23 JSS JCE College of Engineering, Dr. Sudhakar.
24 Bengaluru, Girish Joined.	25	26 Bengaluru →	27	28 Train to Hyderabad	29 Visit Savant Instruments, HYD. Zoom call w/ JSS	30 Board Train for Vizag

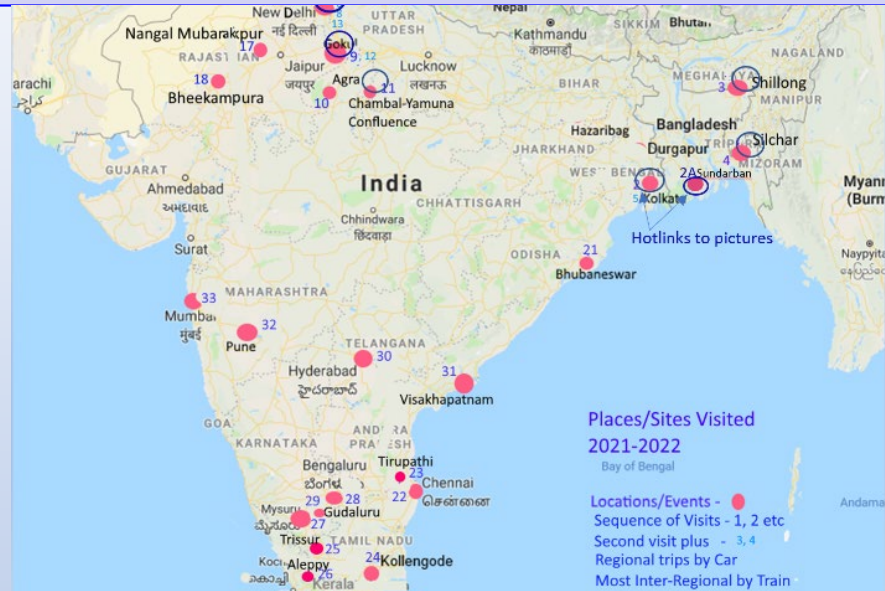


MAY 2022						
SUN	Mon	Tue	Wed	Thurs	Friday	Saturday
1 Arrive Vizag (5:30 AM)	2 MSW discussion with Bharati Teertha group	3 Visited a few sites	4 Recycle Reuse -Team	5 Medical waste	6 Met with Dr. Prakasam Tata	7 Visited Project sites in Vizianagaram with Dr. Prakasam Tata
8 Train to Pune 7 <sup>th</sup> Late night	9 Arrive Pune early AM Visited PG Banerjee	10 Travel to Navi Mumbai – <u>Indrajeet</u> Mou by car	11 Visited <u>Sureflo</u> Techon, Sudhir Gupta and Son, <u>Sohail</u>	12 Visited Powai Lake WQ status and Hyacinth removal equipment	13 Arrive Kolkata Late evening 10:30 PM	14 Kolkata - stay
15 Arranged for repair and upgrade work for the Office.	16 Kolkata Ponds visited per request	17 Kolkata	18 Leave for Delhi by Train	19 Arrive Delhi AM	20 Dehradun, UK projects	21 Visited Mangal Turbine site

	of the Chairman, local Panchayat					
22 Visited the song-river site near Dehradun	23 Had a video call with <u>Mr Rastogi</u> , Chief Engineer, <u>PeyJal</u> , UK State . Traveled to Karnal.	24 Went to Chandigarh from Karnal – met with the Punjab Urban Dev. Minister, <u>Kuldip Singh Dhaliwal</u> .	25 Traveled back to Washington, DC by KLM Airlines via Amsterdam.	26	27	28

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## Presentation Overview

- ❖ **Climate Change Issues and Impacts**
- ❖ **General Observation**
- ❖ **Impacts on Rivers and Species due to Global Warming**
- ❖ **Example Study Steps on a River System and a Himalayan Glacier**
- ❖ **Building Climate Resilience**
- ❖ **Complexities and Constraints**
- ❖ **Working together to face this challenge**







Glacier Breaks in Uttarakhand Leads to Deadly Flooding

5/30/2022



## **Climate Resiliency and Reversal Initiative**

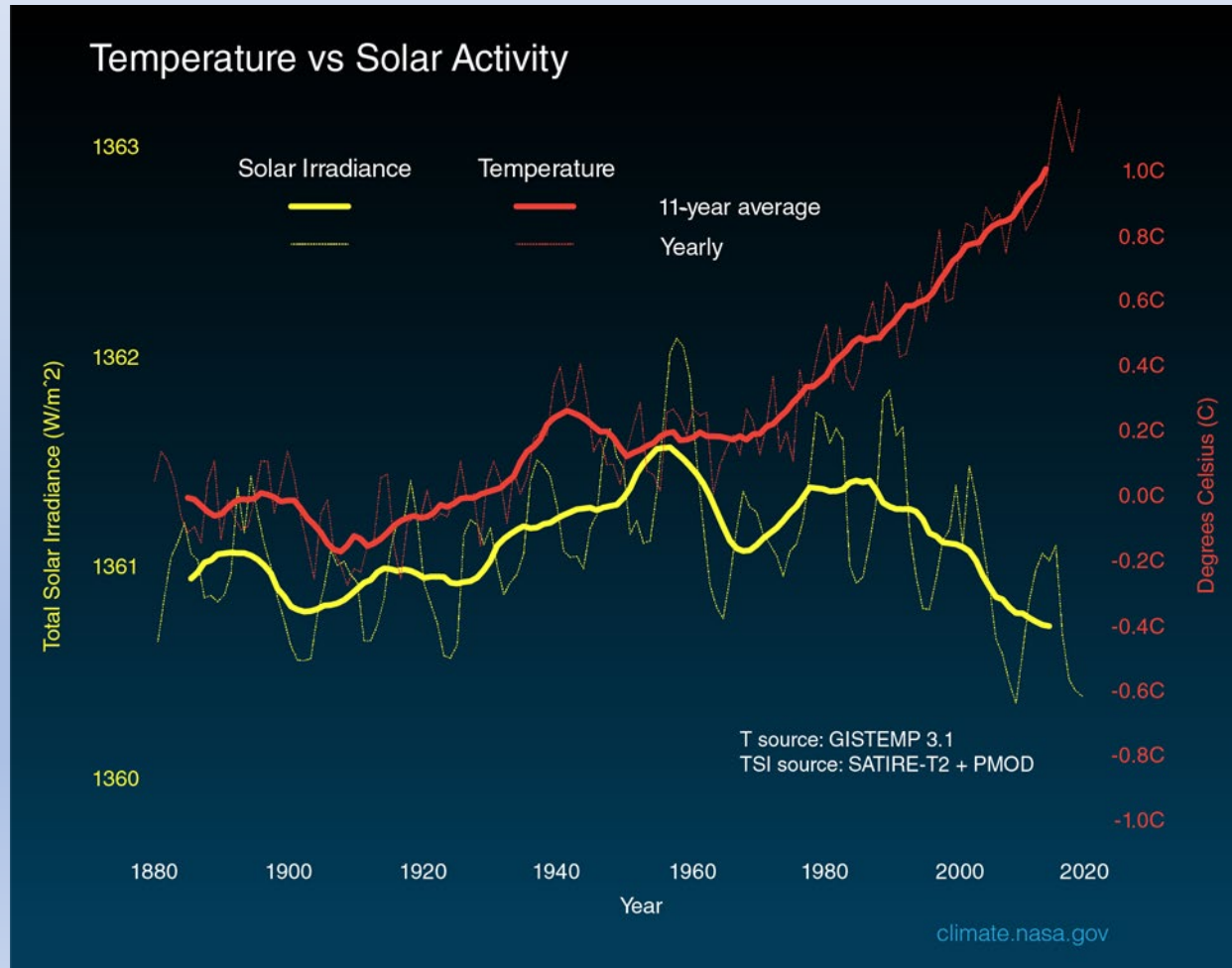
1. Recent disasters due to the weather pattern changes and calamities all across the globe underscores the need to focus on this issue.
2. A few major findings by the EC<sup>1</sup> and the National Aeronautics and Space Administration (NASA<sup>2</sup>) on tracking greenhouse gas emissions and the lower earth temperature increases are listed below:
  - Human activities are increasingly adding an enormous amount of greenhouse gases to those naturally occurring in the atmosphere, which is causing the greenhouse effect and global warming (EC, 2020).
  - It is evident from the data that greenhouse gases are trapping heat in the lower parts of the atmosphere causing the temperature rise.

1 European Commission (EC). (2020) *Causes of climate change* [Online] Available from: [https://ec.europa.eu/clima/change/causes\\_en](https://ec.europa.eu/clima/change/causes_en) .

2 NASA. (2020) *Global Climate Change, Vital Signs of the planet*, [Online] Available from: <https://climate.nasa.gov/causes/> .



- This global warming are not caused by a more active Sun, as that would have caused warmer temperatures in all layers of the atmosphere.
- Instead, scientists have observed a cooling in the upper atmosphere, and a warming at the surface and in the lower parts of the atmosphere. (NASA, 2020)







- Many of these gases causing global warming occur naturally, but human activity is increasing the concentrations of some of them in the atmosphere, in particular (EC, 2020):
  - ◆ carbon dioxide (CO<sub>2</sub>),
  - ◆ methane,
  - ◆ nitrous oxide, and
  - ◆ fluorinated gases.

The resulting climatic disasters during the past few years causing unprecedented –

- ▶ floods, ▶ landslides, ▶ mudslides, ▶ tornadoes, ▶ hurricanes, ▶ forest fires, ▶ drought, and ▶ evolving viral outbreaks.

These intense climatic events are causing huge loss of lives, damages to properties, and businesses supporting current agricultural, and industrial infrastructure.

This effort is looking into two specific outcomes –

1. develop steps to prevent the loss/damage of lives and properties due to unprecedented weather events (***Climate Resiliency***) and
2. remedial steps involving ***Climate Reversal*** -

The remedial step involving climate reversal is a long-term effort to begin the reversal of the increasing trend of global temperature rise for [the past six decades](#) (NASA, 2020).

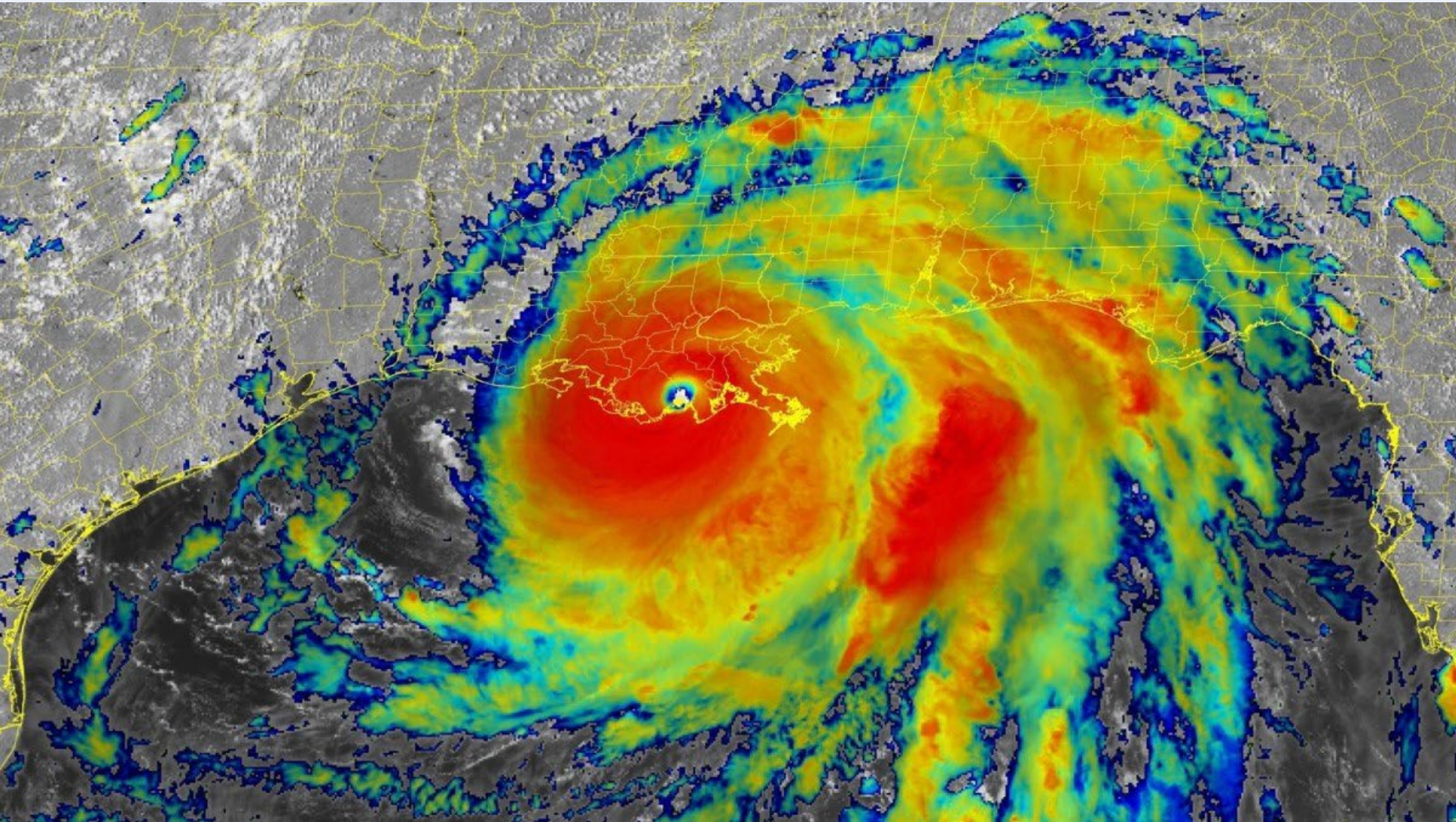


To build the *Climate Resiliency* among various global communities, it is prudent to begin with a few model areas where local facilities, supporting community contacts, and hydrological information on related waterbodies (streams/rivers) are available.

## **The Summary Approach:**

- ◆ Based upon the satellite data using ECO and LIDAR sensors, with specific ***ground truthing and validation***, developing a short background on
  - ✦ river basins and watersheds, ✦ their interdependency and
  - ✦ other watershed parameters that impact the quantity and quality
- ◆ Considering unavailability of clean drinking water during disasters, developing emergency drinking water purification systems for the climatic disasters.
- ◆ Developing a precise predictive model for a specific town/city/area of interest where we are hoping to predict the climate intensity and timing within a high level of accuracy.
- ◆ This effort includes ground sensors [data gathering and satellite based live weather extremes in partnership with NASA/NOAA- and combining the two.](#)
- ◆ Some of our team member already have partnership arrangements with NASA -





Infrared satellite image of Hurricane Ida at 3:21 p.m. EDT August 29, 2021, after making landfall near Port Fourchon, Louisiana. Ida was the most expensive weather disaster of 2021, with \$75 billion in damages. (Image credit: [NOAA](#))





## Local Ground-level Monitoring :

### River Monitoring

The river basin monitoring primarily consists of -

- ◆ measuring hydrological fluxes, storages and quality changes. This includes :
  - ✦ *tracking* of essential hydro-geo-meteorological parameters such as –
  - ✦ water level, water quality, topography, and weather.



Ending point Yamuna-Chambal Confluence  
Coverage – 402.1 Km One-way



## **Watershed Monitoring**

- ◆ Monitor the watershed under study by using data from NOAA, NASA and other resources to track and monitor storm systems
- ◆ Undertaking a few such studies currently
- ◆ One such studies - [Yamuna River Bank Towns – STP Survey and Water Quality Testing](#)
- ◆ Conducted January 10 – 16, 2022



## Weather Monitoring

Use of data from NOAA, NASA and other resources to track and monitor storm systems (Ex: Storms Today) Storms

**FAMILIAR PATTERN**  
FRIDAY

**CHILLY FLOW CONTINUES**

**MILDER**

**Rain, snow, and freezing temperatures heading to Northeast**

A dip in the jet stream will deliver chilly air to the Northeast that could allow for some light snowfall across part of the region's interior

**Accuweather** Accuweather, Accuweather  
Published 12:04 p.m. ET April 27, 2022 | Updated 12:08 p.m. ET April 27, 2022

8:19

Reykjavik, Iceland

Today	Tomorrow	10 days
Today Rain	90%	49° 41°
Saturday, 30 Apr Partly cloudy		49° 42°
Sunday, 1 May Cloudy		46° 33°
Monday, 2 May Showers	50%	44° 38°
Tuesday, 3 May Showers	50%	44° 40°
Wednesday, 4 May Showers	50%	46° 41°
Thursday, 5 May Showers	40%	45° 39°
Friday, 6 May Showers	40%	47° 41°
Saturday, 7 May Scattered showers	30%	49° 42°
Sunday, 8 May Scattered showers	30%	49° 42°



## Social Networking:

- ❖ This is an era of social networking, which has transformed the way people connect and share information with each other.
- ❖ People are creating their digital identities and transcending the geo-political boundaries to freely interact, share information and develop relationships between organizations to work on common issues.
- ❖ We are working towards adopting a digital presence, democratize the data and gather public support.
- ❖ We are working on compiling information generated through IoT and satellite systems , further curated with hydrological models that can help the digital river information.
- ❖ We have already begun educating and disseminating information among people with priority placed on most vulnerable populations (Ex: Gangi, Guttu, Kopardhar, and Bhilangana area, Uttarakhand).



## Khatling Glacier Study



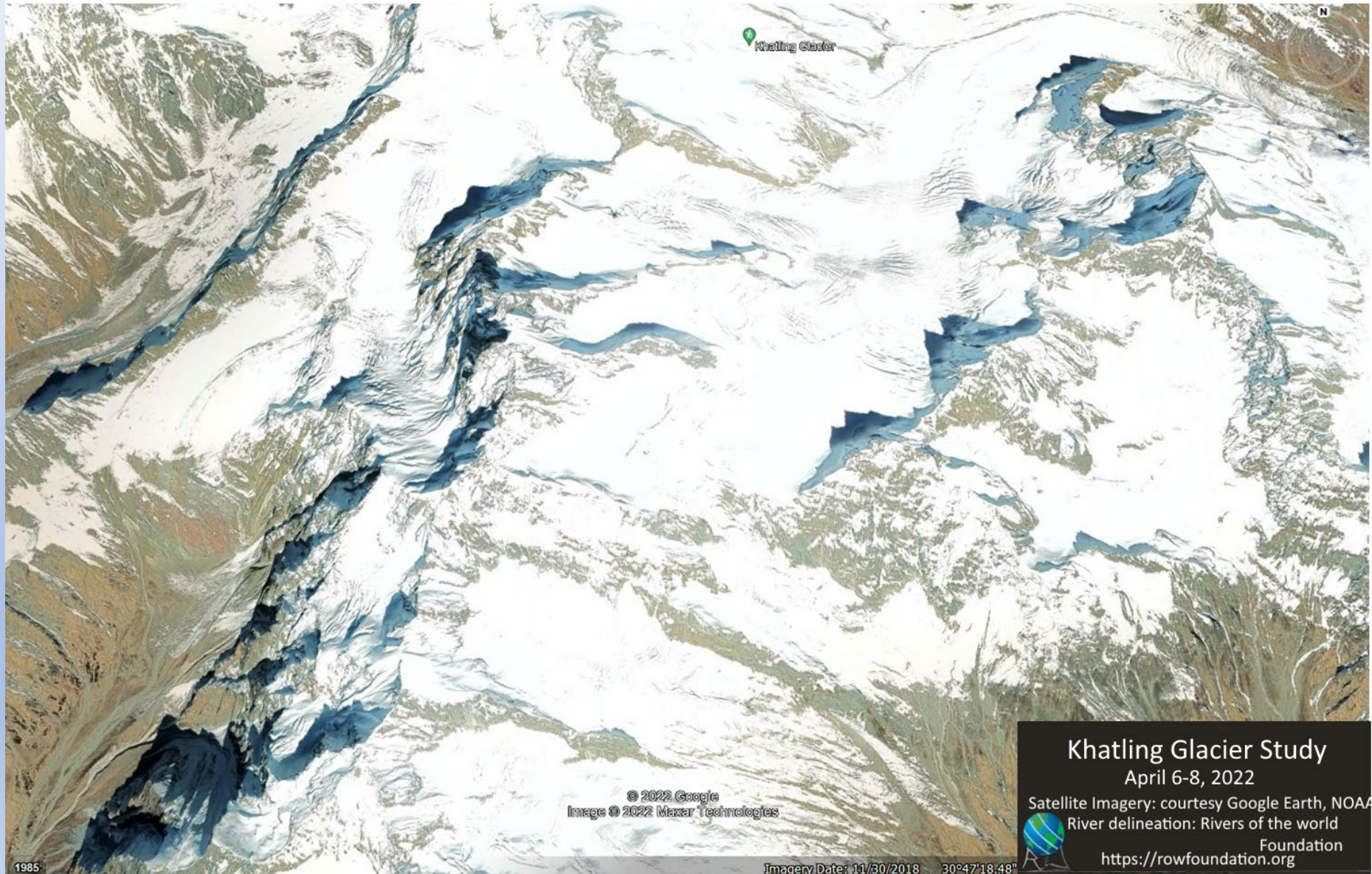
**Khatling Glacier Study**  
April 6-8, 2022

Satellite Imagery: courtesy Google Earth, NOAA  
River delineation: Rivers of the world  
Foundation  
<https://rowfoundation.org>









Khatling Glacier

© 2022 Google  
Image © 2022 Maxar Technologies

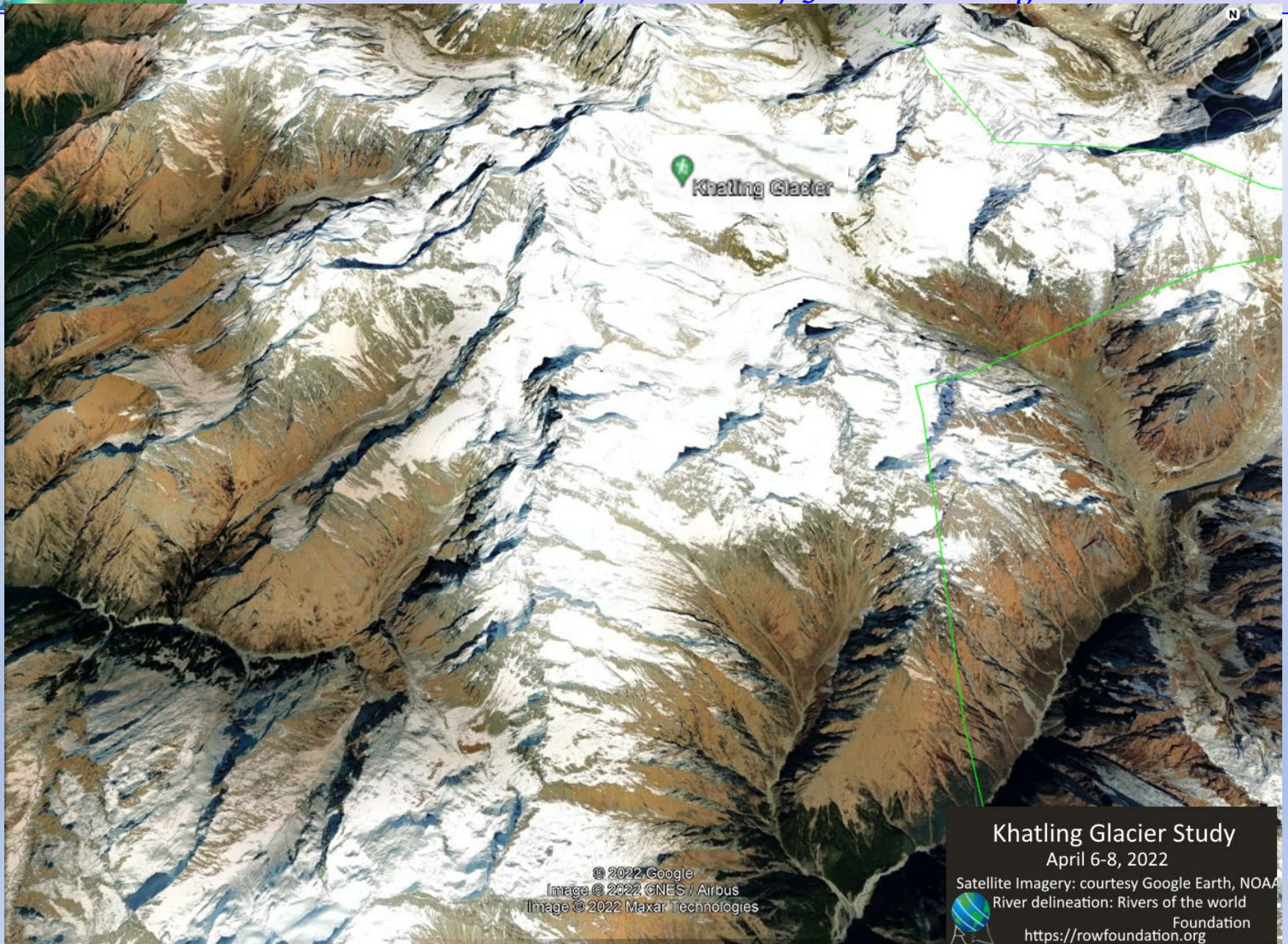
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# New Technologies and Approaches to Build Climate Resiliency & Reversal of Global Warming



Khatling Glacier

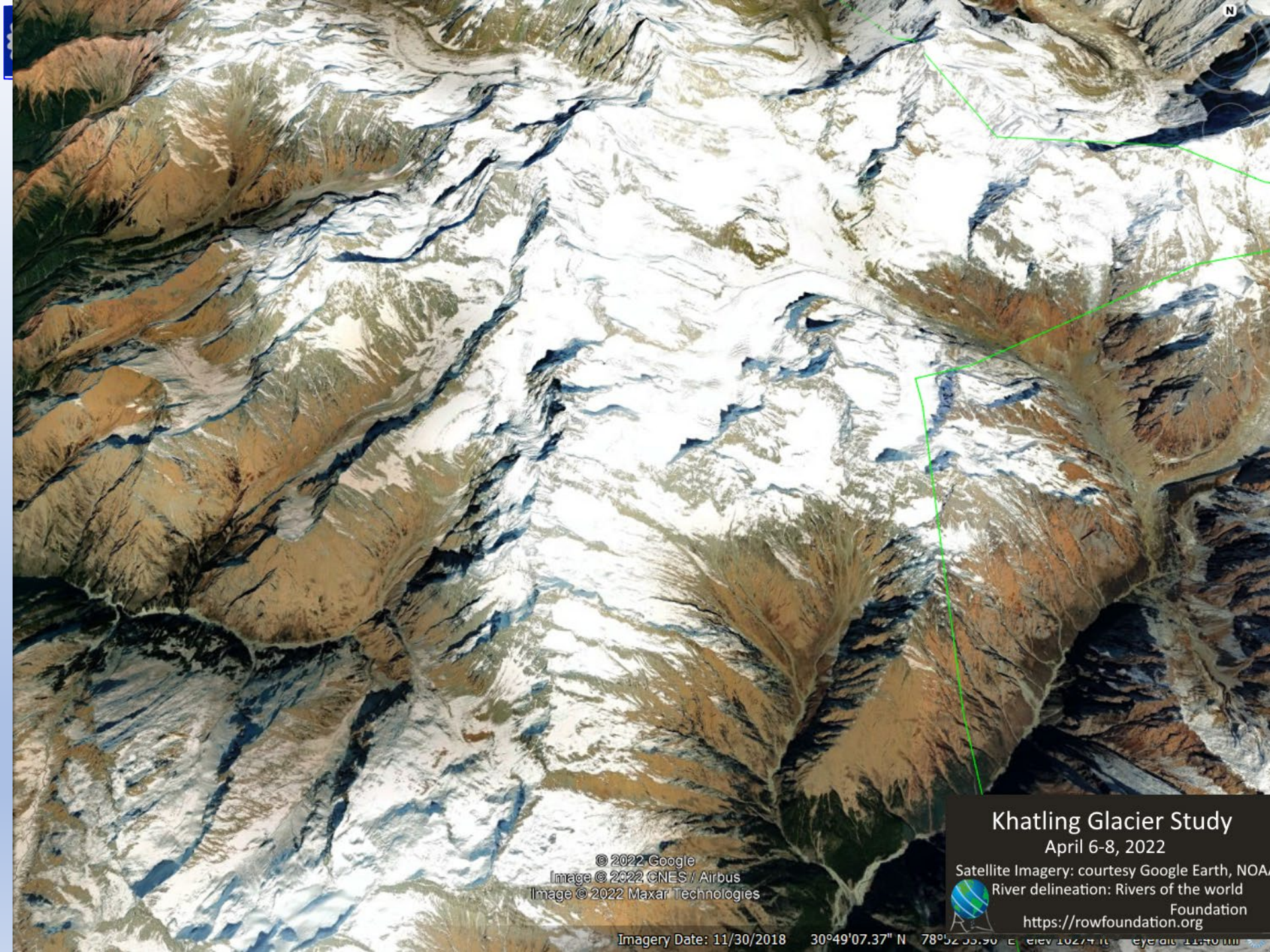
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Image © 2022 Maxar Technologies

**Khatling Glacier Study**  
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Imagery Date: 11/30/2018 30°49'07.37" N 78°52'55.50" E elev 10274 ft elevs 11700 ft





© 2022 Google  
Image © 2022 CNES / Airbus  
Image © 2022 Maxar Technologies

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30°49'07.37" N

78°52'33.90" E

elev 10274 ft

eye alt 113000 ft





Bhilangana-River-below-Khatling-Glacirer -WSP#4B ❄️  
WSP#4a-Trib-Good-WQ 📍

Image © 2022 Maxar Technologies

## Khatling Glacier Study

April 6-8, 2022

Satellite Imagery: courtesy Google Earth, NOAA

River delineation: Rivers of the world



Foundation

<https://rowfoundation.org>

1985

Imagery Date: 11/30/2018 30°39'41.61" N 78°50'52.01" E elev 8643 ft eye alt 11152 ft



## *New Technologies and Approaches to Build Climate Resiliency & Reversal of Global Warming*

<b>Khatling Glacier Study - Location and WQ Data +</b>		
<b>Study Points</b>	<b>Location Lat/Lon</b>	<b>Remarks/WQ Trest data</b>
Spring-Flow-Water Sampling Point WSP #1	30° 35' 15.18025" N 78° 49' 30.50058" E	Check Dam area <b>TDS: 37 ppm</b> Conductivity: 78 umho/cm Temp.: 22.2 C pH - 6.0
Gangi Village WSP #2	30° 38' 6.7902" N 78° 51' 5.55142" E	Gangi Village - North ~200 ft. aove the end of Vehicular Traffic Elev. 8608 <b>TDS: 28 ppm</b> Cond.: 59 umho/cm Temp.: 20 C pH - 6.0
Gangi-Khatling- bridge- const. WSP #3	30° 38' 32.62074" N 78° 51' 3.69295" E	Elev. 8543 Gangi to base of Khatling midway. Pul (Bridge u/ construction) <b>TDS: 16ppm</b> Conductivity: 34 umho/cm Temp.: 15.4C pH - 6.0
Trib-Good-WQ -WSP#4a	30° 39' 33.94595" N 78° 51' 2.83691" E	WSP #4A 1.0 Tributary of Bhilangana River from West side <b>TDS: 13 ppm</b> Conductivity: 27 umho/cm Temp.: 12.3C pH - 6.5
Bhilangana-below-Khatling - WSP#4B	30° 39' 34.34429" N 78° 51' 4.42919" E	WSP #4B 2.0 Bhilangana from the source Khatling Glacier Elev. 7798 ft. <b>TDS: 27 ppm</b> Conductivity: 58umho/cm Temp.: 14.4 C pH - 6.0.



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

"This comprehensive work will serve working engineers, government regulators, and environmental stewards. The reader will be solidly grounded in a wide range of solutions for environmental remediation. And such solutions will surely continue to be needed for a long time to come."

*John H. Lienhard V, PhD, PE, Massachusetts Institute of Technology, Cambridge, MA, USA*

"This book is an excellent practitioner's guide to a wide range of issues that professionals may encounter with hazardous waste in a variety of environmental situations. [...] The book will also be a very useful resource for students preparing for a career in environmental protection and hazardous waste management."

*William E. Roper, PhD, P.E. Visiting Professor, Johns Hopkins University, Baltimore, Maryland, USA*

"In this latest book by Subijoy Dutta, P.E. on municipal, industrial and medical waste management, he has exhaustively dealt with all pertinent issues. Of particular interest to me as a medical practitioner is chapter 14, where special emphasis is placed on COVID-related wastes and their management."

*Dr. Kumar Kanti Das, F.A.C.S, F.R.C.S, Kalyani Hospital, Silchar, India*

*Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes* will provide the reader with a simple and clear path to analyzing the full range of options to manage/treat any solid, hazardous, or medical waste problems/issues at hand.

This book aims to disseminate information on available remediation treatment technologies to developing and developed countries. It will also include adequate information on all available treatment technologies for waste treatment technologies (hazardous, non-hazardous municipal solid waste, and medical waste). The technologies will be grouped into the following categories: Containment Technology; Soil Washing; Thermal Treatment; Vapor Extraction; Bioremediation including Phytoremediation; Plasma/Incineration; Other Physical/Chemical Treatments.

It enlightens the effect of emissions during remediation activities on climate change and suggests measures to identify and control such emissions. It also covers the application of remote sensing technologies with examples and the impending issue of proper disinfection and disposal of COVID-19-related waste.

Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes  
Second Edition

Dutta

Second Edition

# Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes

## Remedial Scope and Efficacy



Subijoy Dutta



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<https://www.snmengineering.com/docs/Environmental-Treatment-Flyer-w-review.pdf>



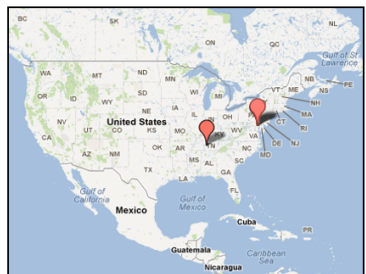
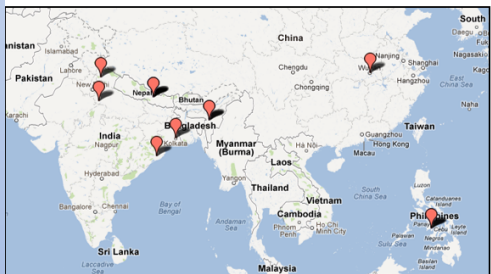
## Local Partnerships and Associates in India - S&M Engineering, LLC

**Working Hand in Hand With Local Governments and Communities**



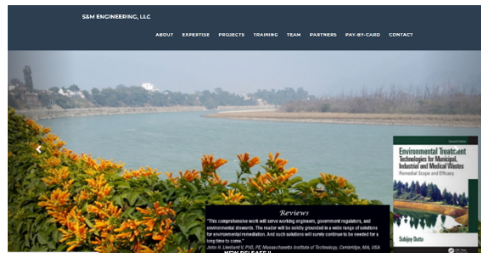
**Countries Where We Work Currently:**

- India
- China
- United States
- Philippines
- Nepal



*S&M Engineering, LLC*

Visit us at [www.snmengineering.com](http://www.snmengineering.com)



S & M Engineering also established a subsidiary and Registered office in Kolkata, S & M Engineering Services, 352/3, M.B. Road, Birati, Kolkata (Trade License ID – 9770) in early 2012.

S & M Engineering established two new offices in 2022 –

- one in **Rishikesh, Uttarakhand**, under the active supervision and coordination of **Mr. Sudhir Nautiyal**, Founder of the Himalayan English School, Ghansali, Uttarakhand. Mr. Nautiyal can be reached at [hes.ghansali@gmail.com](mailto:hes.ghansali@gmail.com).
- And the second in Rohini area of **New Delhi, India** for business development and project

**S&M Team – A few team members below:**



Sudhir Nautiyal



Suresh Soman



Shiromani(SM) Singh



Subijoy Dutta



Matthew Perry



William E. Roper



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*Clean and Vibrant Waters  
Connected Communities  
Ecosustainable Development*



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2. **Rishikesh, India**
3. **Delhi, India**

## Technical Specialty and Innovative Approach on Topical Issues



**SUSTAINABLE DEVELOPMENT**



**WATER MANAGEMENT**



**PROTECTING BIODIVERSITY**



**RIVER SUBSISTENCE**

**S&M Engineering is deeply involved in –**

- Building Climate Resiliency
- Reverse Global temperature rise and
- Restoring/Protecting the biological, economic and cultural well-being of rivers/waters - centering around water sources



*Developing and Implementing Innovative Technical Solutions in Rural and Urban Settings*

S&M Engineering announces the publication of the book, *Environmental Treatment Technologies for Municipal, Industrial and Medical Wastes*, by Subijoy Dutta, ISBN 9780367435509, CRC Press, UK, September 2021. This book addresses the following topical items-

- The Climate change Issues
- Remote Sensing Technologies
- COVID-19 related waste management

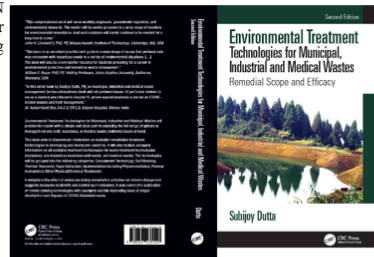
*Promoting Awareness in Communities*



*Training School Students/Teachers to conduct Water Testing and Monitoring.*  
(Picture: Himalayan English School,

**Our Services –**  
Listed on the front page plus

*Delivering Riverkeeper Training and Environment Educational Programs in Philippines*



**Our Partners:**

- [Sureflo Techcon Pvt. Ltd.](#), Mumbai, Maharashtra, India
- [Savant Instruments Pvt. Ltd.](#) Hyderabad, Telangana, India

**Our Technical Specialty**

Locating suitable areas and installing small, demonstration projects involving the following techniques:

- ❖ Deep Pond™ Wastewater Treatment Systems
- ❖ Innovative Diffuser/Aeration Systems
- ❖ Constructed Wetland Systems for Grey Water
- ❖ Other Biological Systems and Bioreactors

**Our Team of International Experts Includes:**






- Environmental Engineers
- Wastewater Treatment Specialists
- Wetland Biologists
- Program Development Specialists

Contact us at  
[snengineering1@gmail.com](mailto:snengineering1@gmail.com)  
 phone:/WhatsApp: +1 410.353.1987 (US)  
 +91 98119-50643 (India)



## **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.





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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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Monday, 01 November, 2021

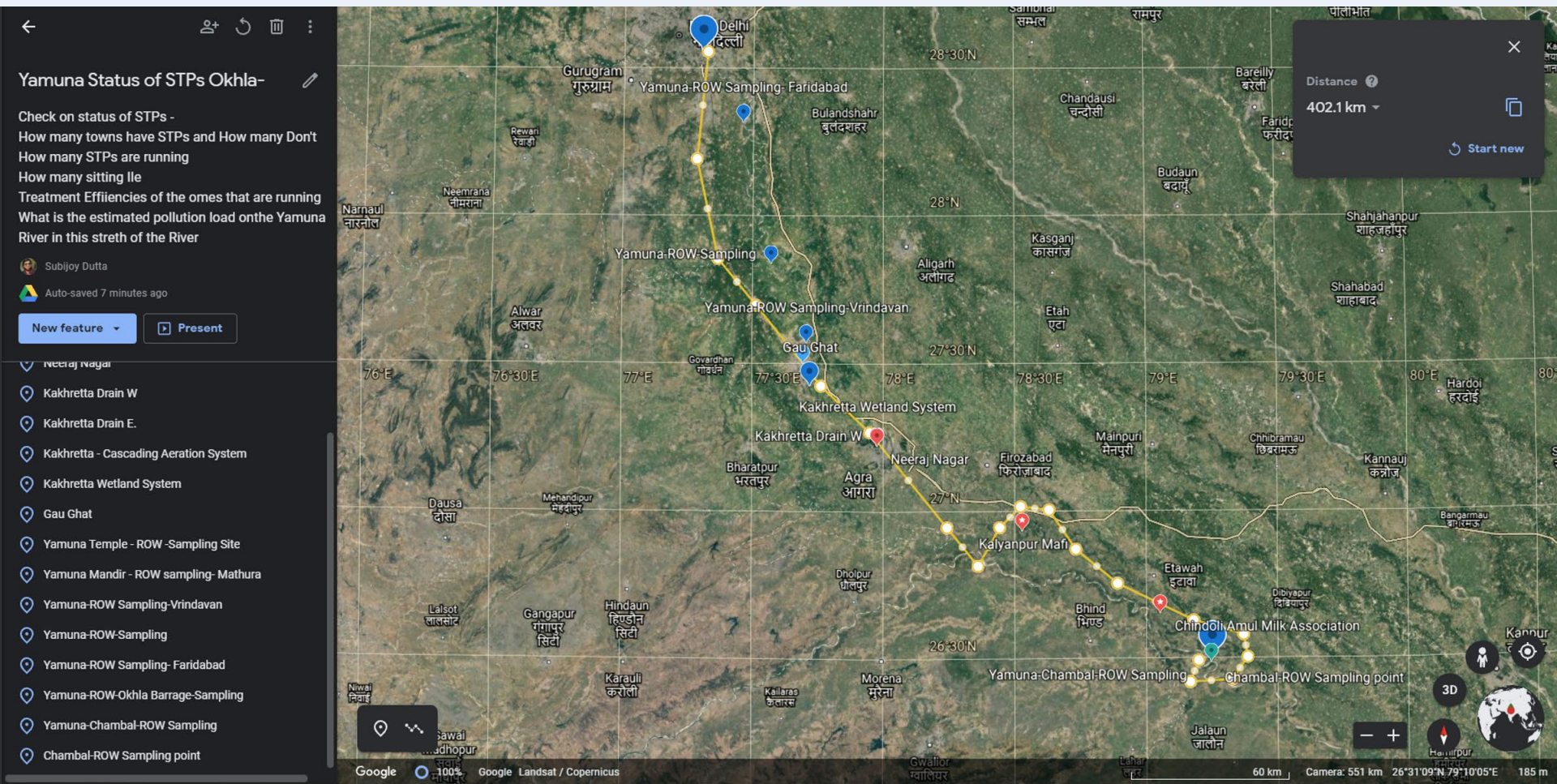


Share



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।





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





S & M Engineering LLC

Meeting All of Your  
Environmental Needs

## *New Technologies and Approaches to Build Climate Resiliency & Reversal of Global Warming*



See some Yamuna and [Chambal Pictures](#)



Yamuna River,  
Gokul, Feb 2019



Yamuna River,  
Gokul, Jan 11, 2022

Please send questions or comments to –  
Subijoy Dutta,  
nine eight one one nine-five zero six four three /  
rowfoundation@gmail.com  
ROW Foundation, Crofton, MD USA  
Web: <https://rowfoundation.org>





## **SOUTH INDIA VISIT**

South India States –

1. Chennai, Tamil Nadu (brief)
2. Trichur, Aleppy, Palakkad, Kerala
3. Mysuru, Bengaluru, Karnataka,
4. Hyderabad, Secunderabad, Telengana,
5. Visakhapatnam, and Vizianagaram, Andhra Pradesh and
6. Navi Mumbai and Mumbai proper, Maharashtra

Prospective Site Visits and Projects in the South will be covered  
in a Separate Presentation



## 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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## QUESTIONS?

Please send comments or questions to Subijoy Dutta  
[snmengineering1@gmail.com](mailto:snmengineering1@gmail.com)

5/30/2022