Suryansh Chattree <suryansh.chattree2024@nst.rishihood.edu.in>

Fwd: Rajasthan Innovation Challenge Project

1 message

Sonali Chauhan <sonalicues@gmail.com>　　　　　　　　Fri, Jun 13, 2025 at 12:06 PM
To: govind.agrawal2024@makers.rishihood.edu.in, suryansh.chattree2024@nst.rishihood.edu.in

Dear Govind,
As discussed, I am forwarding the email conversation I had with another expert. This is more about the kind of data and analysis we need. Hope this helps and does not create any confusion.

---------- Forwarded message ---------

Dear Dr. Sonali
Good morning. Congratulations for first round success.
Among the three objectives, the first one needs species, specific occurrence data from the field (partially some location data available through GBIF website) and GIS techniques. We can generate potential distribution maps (high suitability) based on MaxENT model (opensource machine learning) and bioclimatic variables.

Second one. Predicting future expansion. We can use MaxENT and SSP scenarios.
For the third one, identify drivers. Active fire locations data available from FIRMS https://firms.modaps.eosdis.nasa.gov/map/
or Bhuvan.
Distance to roads and settlements and others we need spatial data and GIS packages.

We will discuss today evening or tomorrow. I will inform you.

Best regards

Dr. C. Sudhakar Reddy
　　　　　　M.Sc., Ph.D., F.B.S., F.A.P.T., F.I.A.T., F.T.A.S., S.M.I.E.E.E.
Scientist-SG & Head, Forest Biodiversity and Ecology Division,
National Remote Sensing Centre,
Indian Space Research Organisation

On Thu, Jun 12, 2025 at 8:31 PM Sonali Chauhan <sonalicues@gmail.com> wrote: