Training Workshop on
Modern river management and historic reconstruction
with advanced fluvial remote sensing
9th-10th April, 2016, IIT Kanpur

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Background
This workshop is an outcome of a research project funded by the Ministry of Earth Sciences on the use of declassified archival images for establishing the reference condition of the Ganga river. The CIA operated multiple spy satellite programs and collected a large number of earth observation photos in the 1960s and 1970s. These photos from programs such as CORONA, GAMBIT and HEXAGON are now declassified and offer us a unique view of the landscape at the very early stages of intense development and thus before the worst ecological damages occurred. However, the actual usage of these images poses significant technical challenges. We would like to share the experience gained during the execution of this project and the protocols developed for using declassified archival images.

Aims of the workshop
- To create awareness about the use of declassified imagery such as CORONA and their potential for research applications
- To share the knowledge developed through the present case study
- To explore various applications of declassified archival imagery.

The programme
- Introduction to declassified imagery: historical perspectives and issues
- Image properties and geometry
- Image rectification – two step georectification
- Image classification of CORONA data
- LULC classification from CORONA data
- Demonstration and hands-on exercises

Registration
Free for PhD students from academic institutions and a fee of Rs. 6000 from working scientists and professionals. Accommodation for the participants will be arranged at the visitor’s hostel of IIT Kanpur on sharing basis

Contacts
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Schedule:
9th April
0930-1000 Tea
1000-1030 Inauguration, scope and need of the workshop
1030-1130 Introduction to Declassified imagery: historical perspectives and issues
1130-1300 Image properties and geometry of CORONA and GAMBIT
1300-1400 Lunch
1400-1545 Image georectification procedures from contemporary satellite data.
1545-1600 Tea
1600-1730 Evolution of the Ganga in the Anthropocene: a case study

10th April
0930-1100 Image classification of declassified imagery: standard and advanced methods
1100-1130 Tea
1130-1300 Alluvial stratigraphy: building the aquifer system
1300-1400 Lunch
1400-1530 LULC classification from declassified imagery
1500-1530 Tea
1530-1630 Hands-on exercises
1630-1730 Round table: applications and potential of declassified imagery in India
1730-1745 Future perspectives and workshop closure
Registration Form

Name (Dr/Mr/Mrs/Miss): ………………………………………………………………………………………………………………………………………………………………………………………..

Father’s Name: ……………………………………………………………………………………………………………………………………………………………………………………………………

Date of Birth (DD/MM/YY): …………………………………………………………………………………………………………………………………………………………………………………………….

Gender (Male/ Female): ……………………………………………………………………………………………………………………………………………………………………………………………

Nationality: ………………………………………………………………………………………………………………………………………………………………………………………………………

Professional association and Contact Information: ………………………………………………………………………………………………………………………………………………………………………

Contact Number: (Office / Mobile): ……………………………………………………………………………………………………………………………………………………………………………………………

Email: ………………………………………………………………………………………………………………………………………………………………………………………………………

Specific area of interest: …………………………………………………………………………………………………………………………………………………………………………………

Explain how the corona dataset will be helpful for your research work: ………………………………………………………………………………………………………………………………………………………………………

Date: 

Signature