

ICFM Webinar 10

2022 Pakistan Floods

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2 ICFM9 update

- ICFM9 – Tsukuba, Japan February 19-21, 2023
- LOC under the leadership of Prof. Toshio KOIKE
- Conference web page – www.icfm9.jp
 - Submission of extended abstracts completed
 - Over 180 under review (check ‘MyPage’)
 - Registration is in progress
- Looking forward to seeing you all in Tsukuba



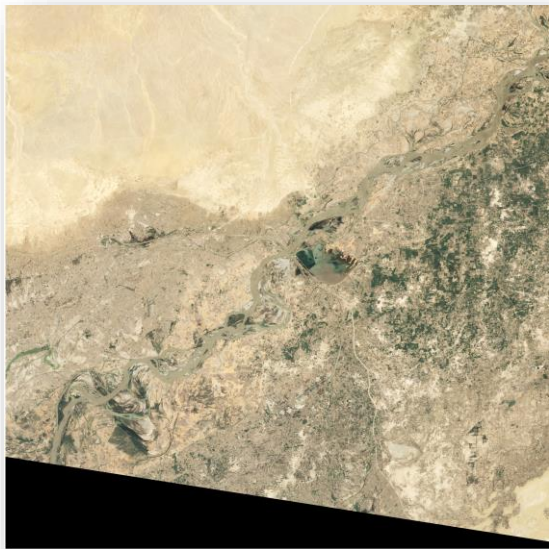
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- 1,700 lives lost
- 1/3 of the country inundated
- Damage up to US\$40 billion
- 33 million people affected

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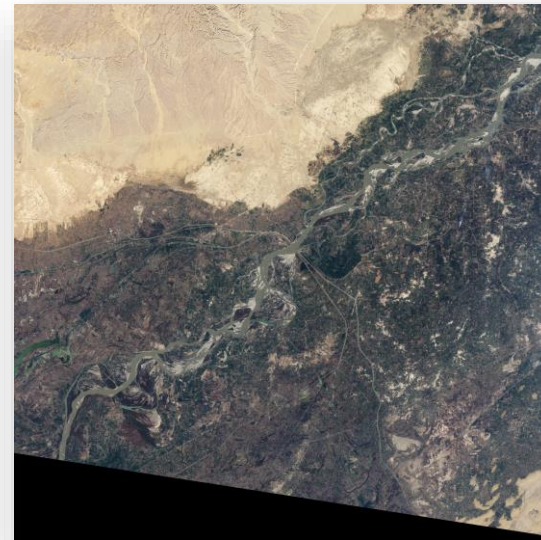
- Indus river provides the key water resources for the economy of Pakistan - especially the breadbasket of Punjab province
- 4000 years of irrigation agriculture supported by Indus river



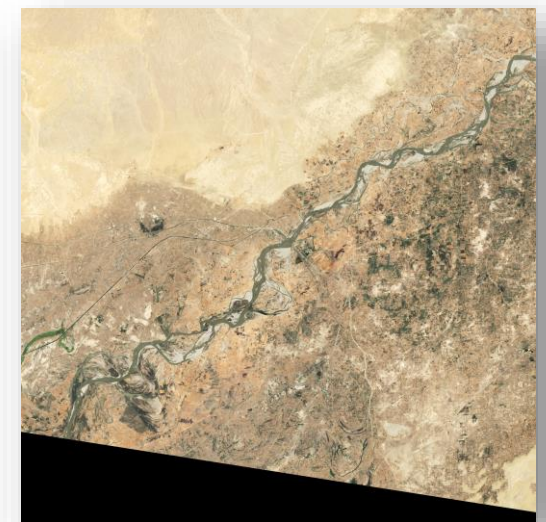
June



August



January



April

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- Causes

- The wettest monsoon season since records began in 1961
- In some regions the rainfall has been 500% above average
- More than 70 districts declared “calamity”

- Climate change: 50-70% increase in extremes due to human activities
- Vulnerability: **population 1950 38 million - 2022 236 million**
corruption
mismanagement

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- Solutions

- Poverty reduction (10% increase due to flooding)
- Reduction of vulnerabilities
- Increase in resilience
 - Housing standards
 - Agriculture assistance (seed and fertilizer)
- Climate change mitigation and adaptation
- International collaboration
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- Lessons learned
- Professor Vimal Mishra – India
 - Topic: The Pakistan flood in August 2022: causes and implications
- Professor Sun Dongya – China
 - Topic: Challenges of flood management in Pakistan under new precipitation scenarios

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- Thank you
- Presenters
- Participants
- Organization by the ICFM Permanent Secretariat at IWHR
 - Leadership of Dr. Zhang CHENG (Chairperson)