



6TH

UNITED NATIONS | COSTA RICA | PSIPW

CONFERENCE ON SPACE TECHNOLOGY FOR WATER MANAGEMENT

HOSTED BY THE INTER-AMERICAN INSTITUTE
FOR COOPERATION ON AGRICULTURE

7-10 MAY, SAN JOSÉ, COSTA RICA



MINISTERIO DE
RELACIONES EXTERIORES
Y CULTO

GOBIERNO
DE COSTA RICA



Prince Sultan Bin Abdulaziz
International Prize for Water



**Session T4. Space technologies monitoring forests, agroforestry,
watersheds and their interplay**
Jim Nelson and Edgar Espinosa

Conclusions

- ❑ Demonstrated different applications on using space technologies to develop models
 - ❑ Defining parameters land use conditions
 - ❑ digital elevation
 - ❑ critical watershed monitoring
 - ❑ Modeling
- ❑ Monitoring change over time - Examples
 - ❑ Mangroves
 - ❑ Disappearing Aral Sea
- ❑ Satellite data must be combined with robust in situ monitoring data to improve bias and calibrate models derived from global earth observing systems
- ❑ Considerable discussion on capacity development and training stakeholders to use and trust in these information systems for decision-making and policy formation.

Primary gaps

- ❑ Finding better ways for capacity development
- ❑ Continued support of in situ information to improve space technology solutions

Recommendations

- ❑ As scientists and users of this information we need to
 - ❑ clearly communicate value
 - ❑ be honest with its limitations
- ❑ ... so that we can effectively advocate for the resources necessary to close the gaps.



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Thank you
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