

# ***FOUNDATION FOR ENVIRONMENT CLIMATE AND TECHNOLOGY***

## **ANNUAL PROGRESS 2017 -All ACTIVITIES**

### ***Communication Material***

- FECT – 15<sup>th</sup> Anniversary Compilation
- Various FECT Flyers

### ***Peer Reviewed Journal Publications***

- None

### ***Books & Book Chapters***

- Zubair, L., Shazla Mohamed, Mizna Mohamed (Eds), Proceedings of the Workshop on Climate and Water Security in the Maldives, Foundation for Environment Climate and Technology, Kandy.

### ***Technical Reports***

- Rathnayake, Udara., Zubair, L., Wickramagamage, P. *System Dynamic Model for Water Scarcity in Maldives*, FECT Technical Report 2016-09, Foundation for Environment, Climate and Technology, Digana, December 2016.
- Zubair, L., Lokuhetti, R. Visvanathan, J. Zahid, Michael, B. (2016). *Climate Monitoring and Prediction for Maldives*, FECT Technical Report 2016-11, Foundation for Environment Climate and Technology, Kandy
- Wijerathne, K. and L. Zubair (2017). *Survey of Water Use and Water Budgeting in Greater Malé Maldives (Villingili, Hulhumale&Hulhule)*. FECT Technical Report 2017-01 Foundation for Environment, Climate and Technology, (Pages 25)
- Wickramagamage, P. (2017): *Water Resources of the Republic of Maldives*. FECT Technical Report 2017-03, (Pages 44) Foundation for Environment, Climate and Technology, Digana.
- LareefZubair, Nishan Ahmed, Majeeda Mohamed, Zahid, (2017): *Climate Drives the Seasonal and Regional Variation in Dengue Incidence in the Maldives*, FECT Technical Report 2017-11, (Pages 15) Foundation for Environment, Climate and Technology, Digana

### ***Discussions / Meetings***

- January 2017 - A Review Meeting for FECT staff and Collaborators was held at the Digana Resort in Rajawella to Brainstorm on past and on-going projects, common issues, review work to fix problems and improve work and working conditions, to identify priorities and to draft a strategic plan for 2017
- January 2017- LareefZubair, JananVisvanathan visited Maldives and had meetings with Non-government partners, private sector participants and USAID officials. 24<sup>th</sup> - 25<sup>th</sup> of January 2017.
- July 3 – Prof. P. Wickramagamage and Dr. L. Zubair participated in the Kabul River Basin Project review convened by the PEER program and USAID at the Hilton Hotel in Colombo.
- July- FECT staff and Collaborators had a meeting on past and on-going projects with Peer Grant Manager, DalalNajib and USAID's Jason Porter on 6<sup>th</sup> July at FECT office Akurana.
- July- LareefZubair, AsharaNijamdeen visited Maldives and had meetings with Nongovernment partners, private sector participants and USAID officials on 8<sup>th</sup> to 12<sup>th</sup> of July 2017.
- December- Maldives Visit - LareefZubair, visited Maldives and had meetings with Maldives National University, Health Protection Agency, Marine Research Centre and Nongovernment partners, private sector participants, Renewable Energy Maldives and LaMER on 9<sup>th</sup> to 11<sup>th</sup> of December 2017.

### ***Grants Ongoing / Completed***

- **ASIRI: Remote Sensing of Atmospheric Waves and Instabilities (RAWI)**. This examines the ocean-atmosphere linkages over the tropical Indian Ocean region. Project conducted by the Office of Naval Research, administered by University of Notre Dame (L. Zubair, Co-PI 2014- 2017).
- **PEER Drought Cycle 3: Developing Monitoring Tools for Managing Drought Risk and addressing the Riddle of Increased Drought Tendency amidst the Wetter Climate Change Projections for Sri Lanka and Maldives** from the US National Academy of Sciences (PI - L. Zubair, Mizna Mohamed, 2014-2017). **Completed.**
- **PEER Hazards Cycle 4: Can drought, flood and landslide hazard be skillfully assessed at fine spatial resolution from combining constrained streams of observed, remotely sensed and model predicted data in Sri Lanka and Maldives?** From the US National Academy of Sciences (PI – P. Wickramagamage, L.

Zubair, Zahid, 2015 –2018).

- **ENRN: El Nino Ready Nations, from the Center for Capacity Building, University of Colorado, Dr. Mickey Glantz (PI), sponsored by USAID.) Completed.**

#### **Grant Reporting**

- **PEER Drought:** 3 Quarterly Reports and Annual Technical Report were submitted, this project formally closed in December.
- **PEER Hazards:** 3 Quarterly Reports and Annual Technical Report were submitted.

#### **Proposals, Concept notes and Expression of Interest**

- December 2017 - *STEM Education and Capacity Building for Resources and Risk Management in Remote Outposts capitalizing on PEER projects on water, drought and hazards: Gaafu Dhaalu Atoll in Southern Maldives* Principal Investigator: Lareef Zubair, Prof. Wickramagama, **PEER supplementary proposal**

#### **Training & Staff**

- Himash Ariyaratne, Charuni Jayasekera, and Tharuka Rankothge completed internships for 1-4 months and left along with Jonathan Frank
- Tuan Hadgie, F. Shakira, Nushrath Najimudeen, Asansa Abeywardene, Rasika Abeyasinghe, Priyan Liyanage and Shifna Rameez joined the staff
- Rimza Zacky, Janan Vishwanathan, Ruchira Lokuhetti, Ashara Nijamdeen and Jonathan Frank carried on from 2016.

#### **Operational Services**

**Climate Services for Sri Lanka:** Provided Climate Services for the Mahaweli Authority and Maldives. Archives of advisory reports are available at: <http://fectsl.blogspot.com/>; Weekly expert input is made available via <http://fectsl.blogspot.com>; <http://www.climate.lk> and <http://fectsl.wordpress.com/>

- **Climate Services for Maldives:** Collaboration with the Maldivian Meteorological Services
- Monthly Hydro-meteorological Advisory services to Maldives.  
via <http://fectmv.blogspot.com> & <http://www.tropicalclimate.org/maldives>
- **Climate Services for the Comoros:** <http://www.tropicalclimate.org/comoros/> provides updated information.

#### **Brochures/Flyers**

- Translated the two-page brochure to Sinhala and Tamil languages

#### **Project Websites and Blogs:**

Our projects each have a webpage which is accessible via [www.climate.lk](http://www.climate.lk) or [www.tropicalclimate.org](http://www.tropicalclimate.org). In addition, we maintained blogs for the following projects at

- MDP: <https://mdpsl.wordpress.com/> (5 posts, 249 views, 174 visitors)
- AgMIP project: <https://agmipsl.wordpress.com/> (38 posts, 4059 views, 1956 visitors)
- PEER: <https://peersl.wordpress.com/> (43 posts, 4276 views, 2315 visitors)

#### **Websites, Social Media and Mailing Lists for Maldives**

We have maintained websites, social media and mailing lists for Maldives.

**Websites:** <http://www.tropicalclimate.org/maldives>

#### **Blogs:**

<http://fectsl.blogspot.com> and [fectmv.blogspot.com](http://fectmv.blogspot.com) are being regularly updated.

<https://maldivesclimate.wordpress.com/> (1 post, 22 views, 9 visitors)

#### **Twitter:**

<https://twitter.com/fectmv> (65 posts and 53 followers)

#### **Facebook:**

<http://facebook.com/fectmv> (344 posts and 216 likes)

#### **Mailing List:**

**Subscription:** via <http://www.climate.lk/subscribe.html>

Direct link: <http://eepurl.com/bPkohP> (89 subscribers, 32 campaigns)

#### **Weather and Soil Moisture Instruments:**

- For Southern Maldives: AWS operated by LaMER at Small Island Research Centre, Southern Maldives
- Soil Moisture and Temperature Measurement Instruments at 4 depths along with transmission and automated data-logging were provided for the Maldives.