

Seasonal Forecast to Impact Outlook for Disaster Resilience in Asia-Pacific

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**17th Session of the
Forum on Regional Climate Monitoring, Assessment and Prediction for Asia
(FOCRAII)**

***ESCAP Resolution 71/12* Strengthening Regional Cooperation Mechanism for the Implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030 in Asia and the Pacific**

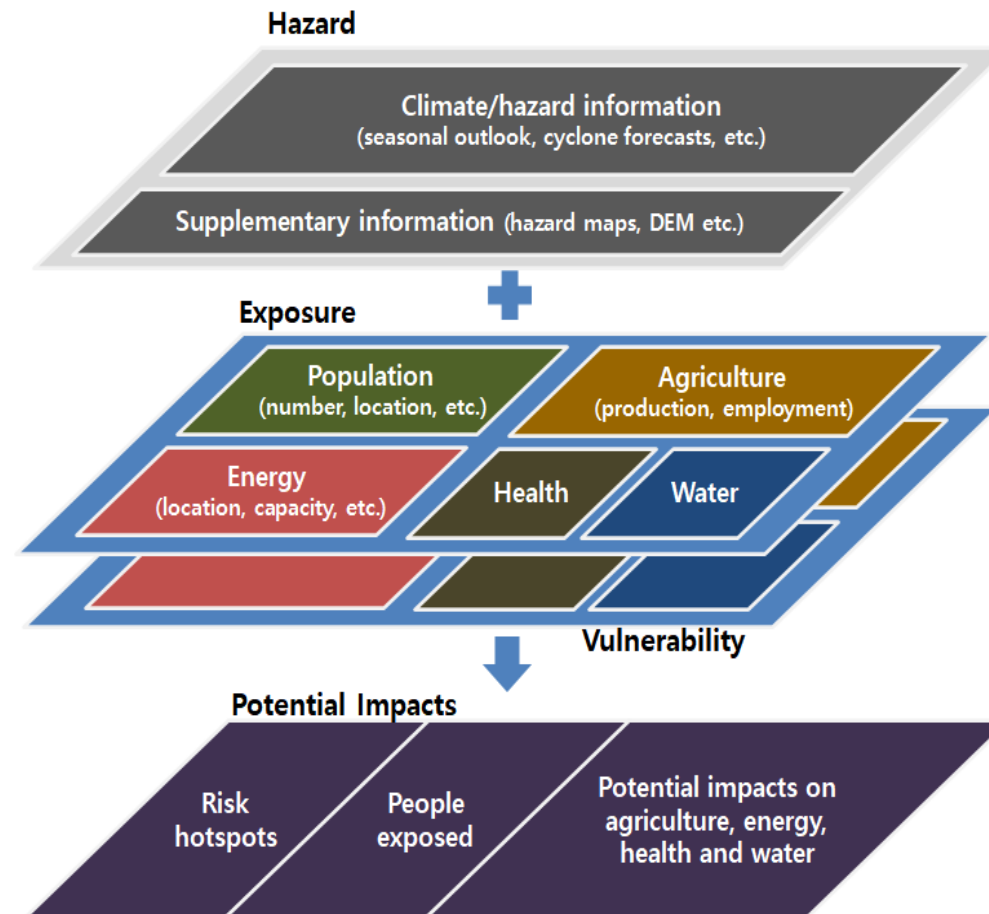
- *To guide actions... **to strengthen** disaster risk modelling, assessment, mapping, monitoring and **multi-hazard early warning systems...**, **particularly those related to hydrometeorological issues**, by deepening existing regional cooperation mechanisms such as the ESCAP/WMO Typhoon Committee, the WMO/ESCAP Panel on Tropical Cyclones...*

***ESCAP Resolution 73/7* Enhancing regional cooperation for the implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030 in Asia and the Pacific**

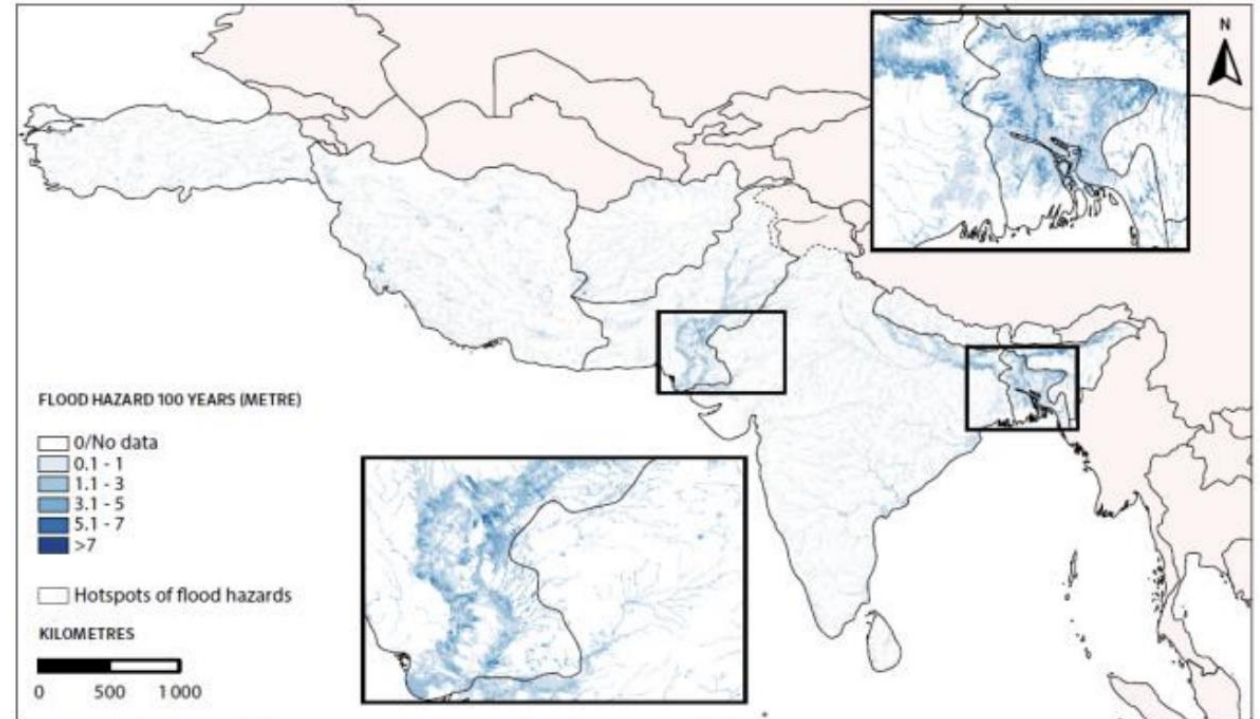
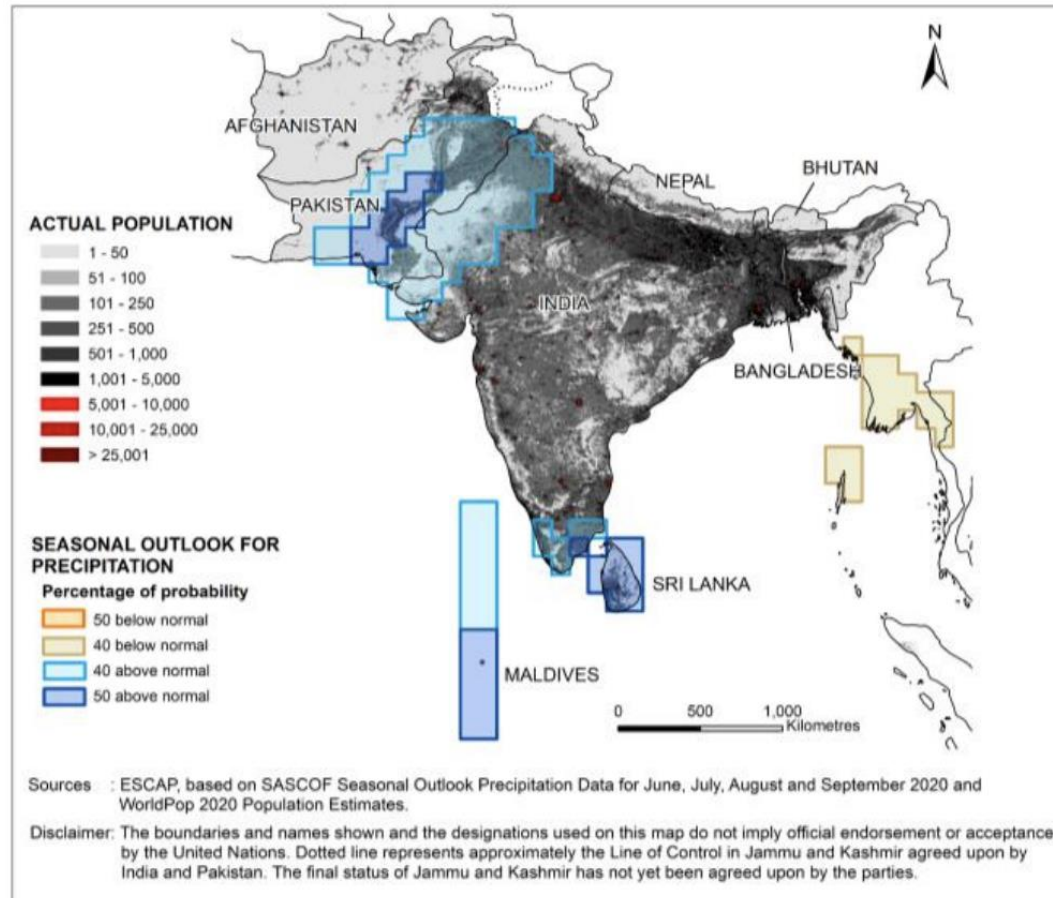
- *Continue to support and facilitate **multi-hazard early warning systems, impact-based forecasting** and disaster risk assessment to strengthen regional cooperation mechanisms;*

Based on requests from member States through ESCAP resolutions, ESCAP has supported for enhancing the capacities for impact-based forecasting.

- **IBF based on seasonal forecasts** - Concept and cases were presented to SASCOF, EASCOF and FOCRAII.
- **IBF based on observed and forecast tracks of tropical cyclones (quadrant wind)** - Concept and a case were presented to and discussed at TC and PTC.



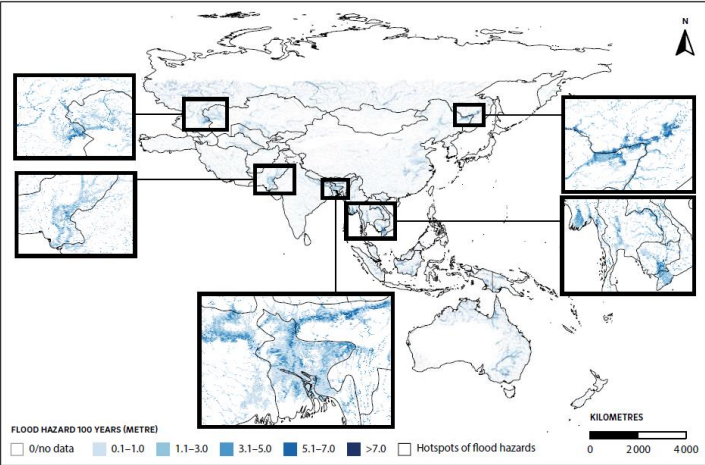
Last year, for instance, areas that need attention were identified.



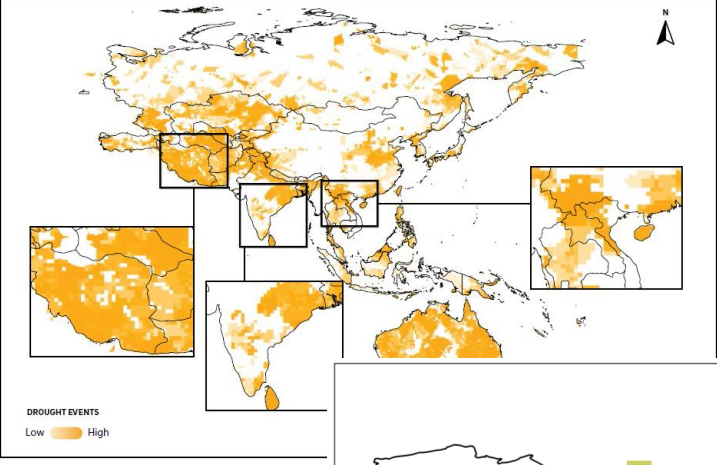
In August/September, Pakistan was severely hit by heavy rains and experienced urban flooding with over 400 lives lost and around 305,000 homes partially destroyed. Floods also affected agricultural sector destroying main crops (Relief web)



GAR Hotspots of flood hazard / drought events

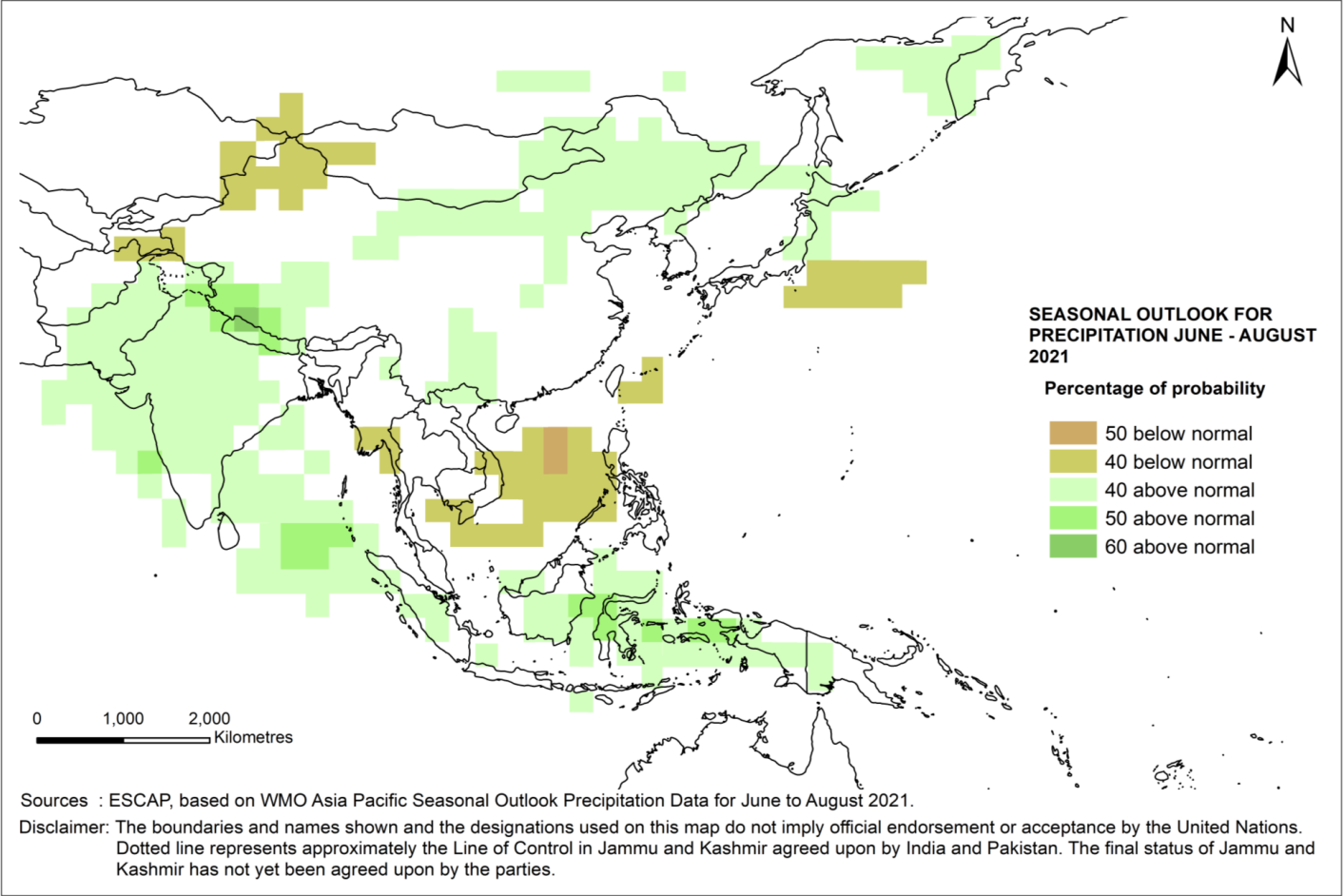


Source: ESCAP, based on Global Assessment Report on Disaster Risk Reduction (GAR) Risk Atlas, 2015.
Disclaimer: The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations. Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

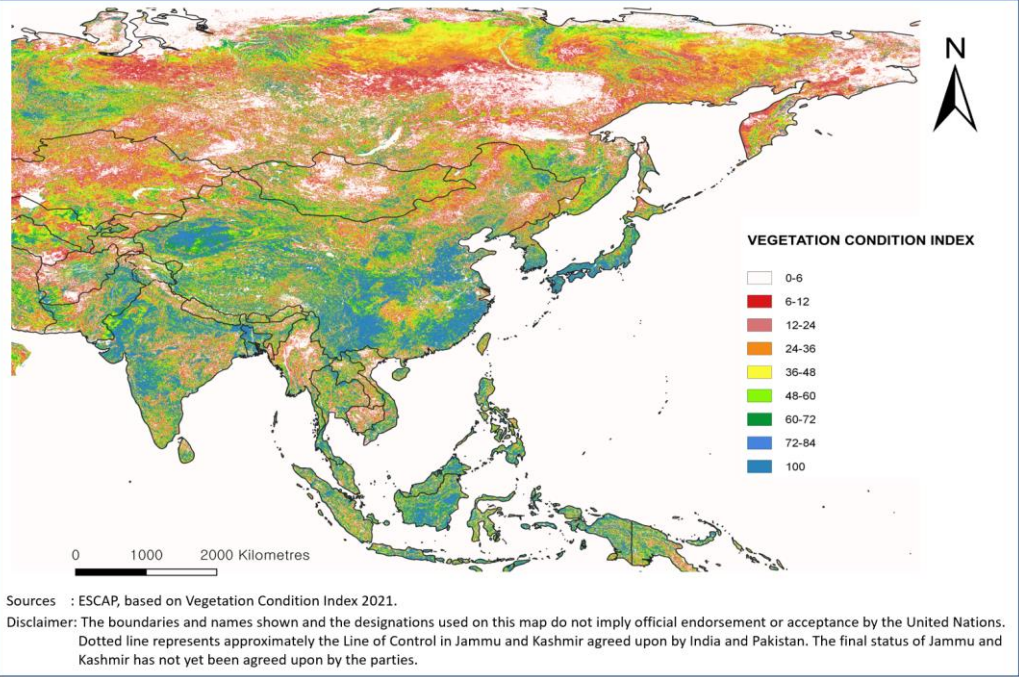


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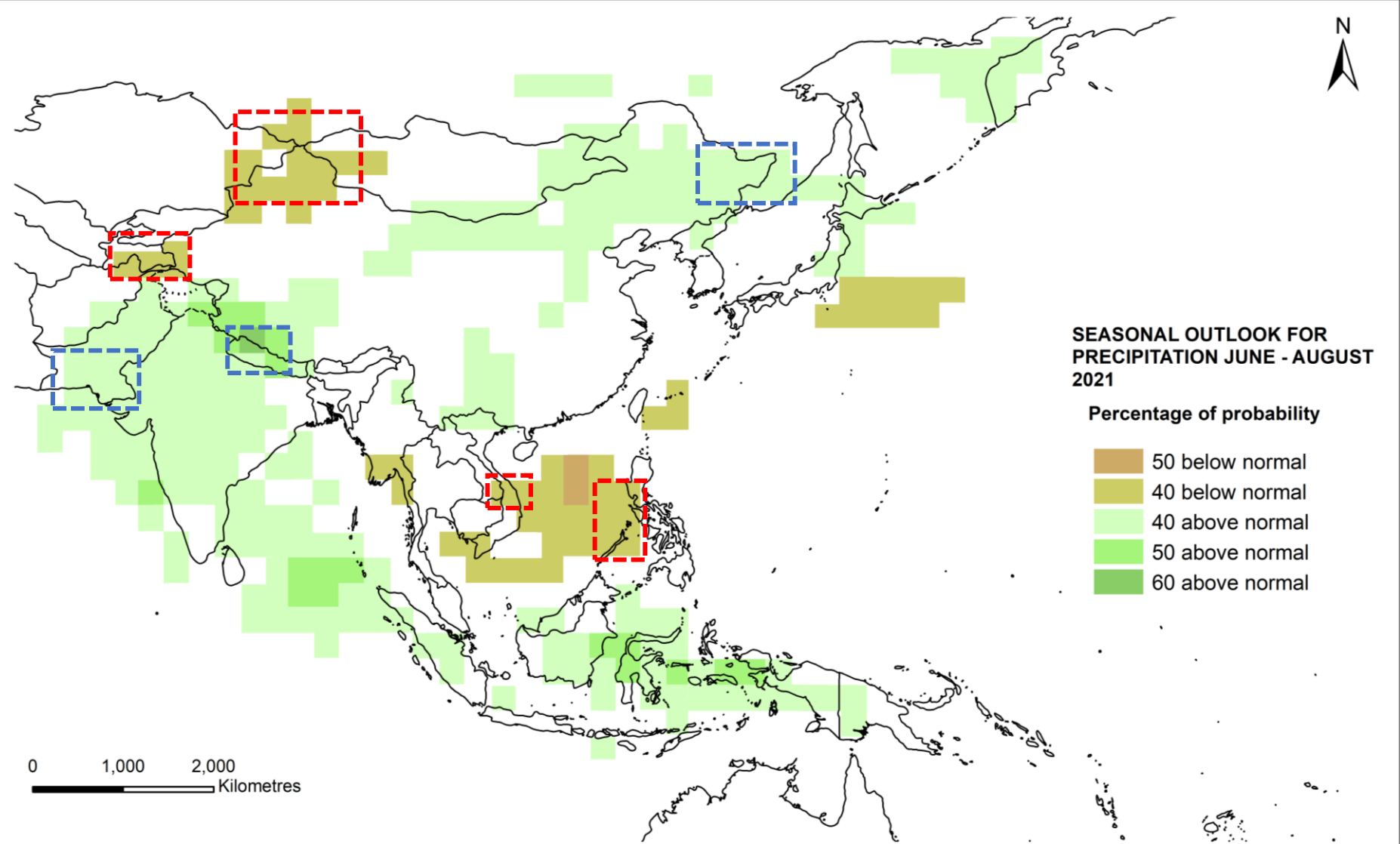
WMO Seasonal outlook for precipitation JJA 2021



Vegetation Condition Index on the first week of May 2021



Areas needs attention, June to August 2021



Areas needs attention,
in association with below
normal rainfall

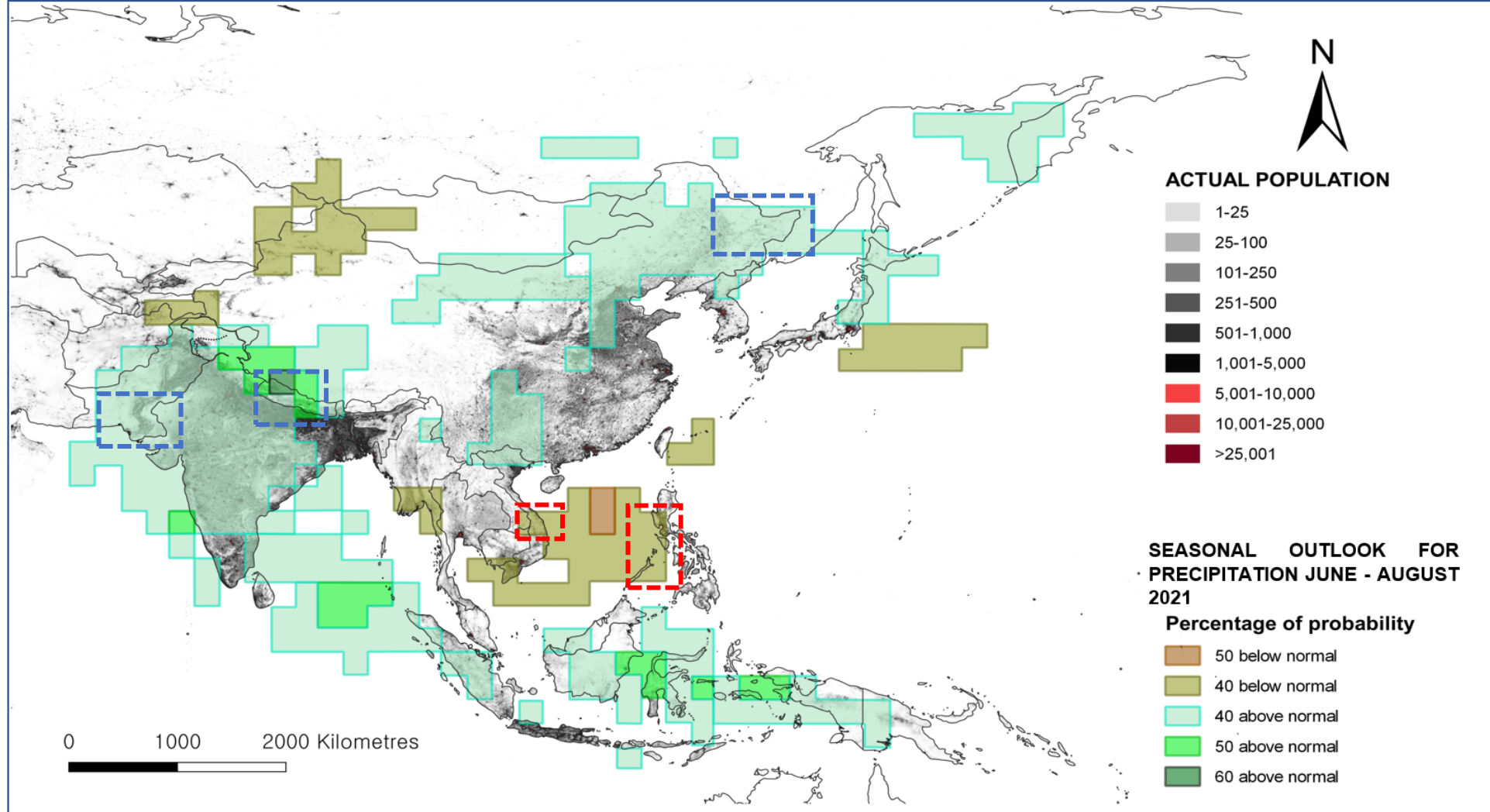


Areas needs attention,
in association with above
normal rainfall

Sources : ESCAP, based on WMO Asia Pacific Seasonal Outlook Precipitation Data for June to August 2021.

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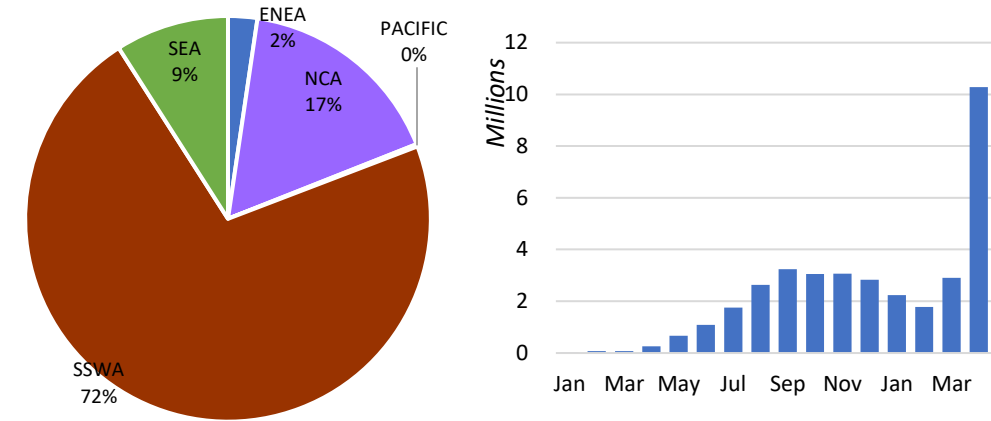
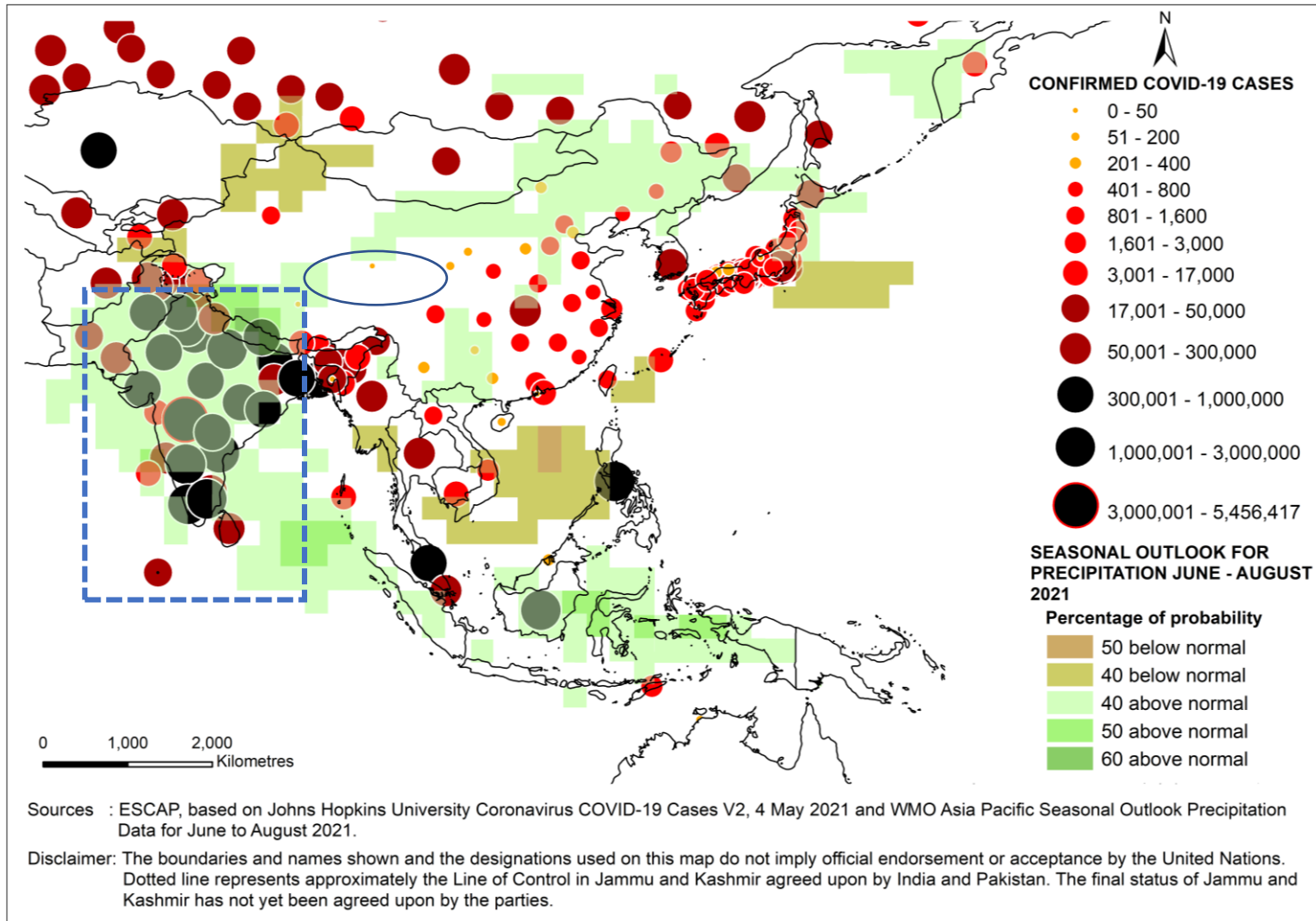
Population exposure in the areas need attention



Sources : ESCAP, based on WMO Asia Pacific Seasonal Outlook Precipitation Data for June to August 2021 and WorldPop 2020.

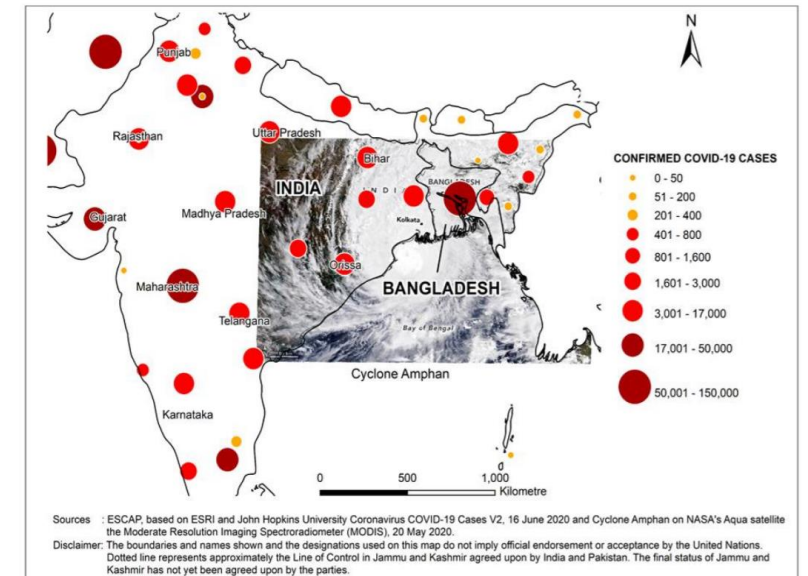
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Confirmed COVID-19 cases and seasonal forecasts

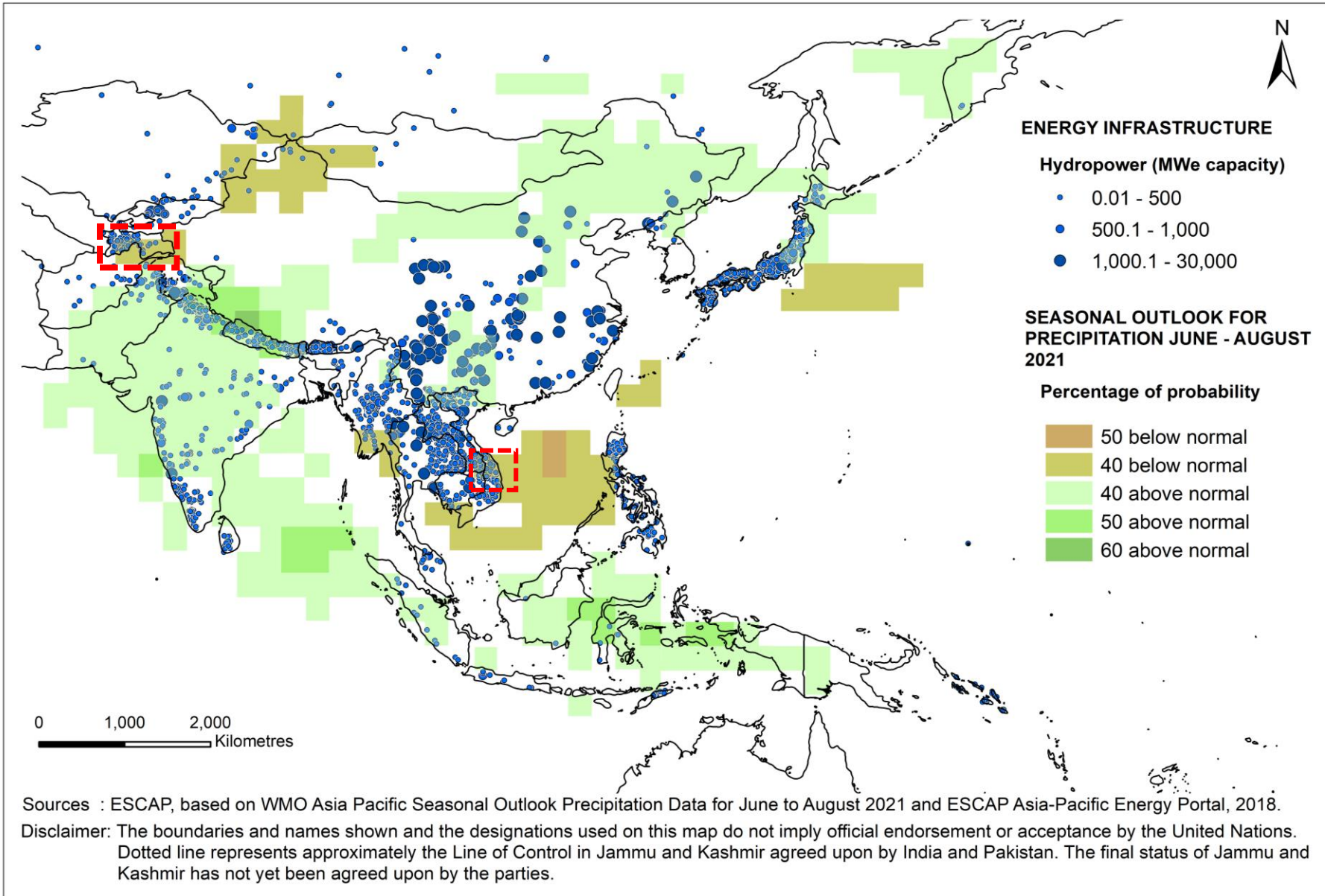


Data source: WHO COVID-19 Dashboard

Convergence with COVID-19



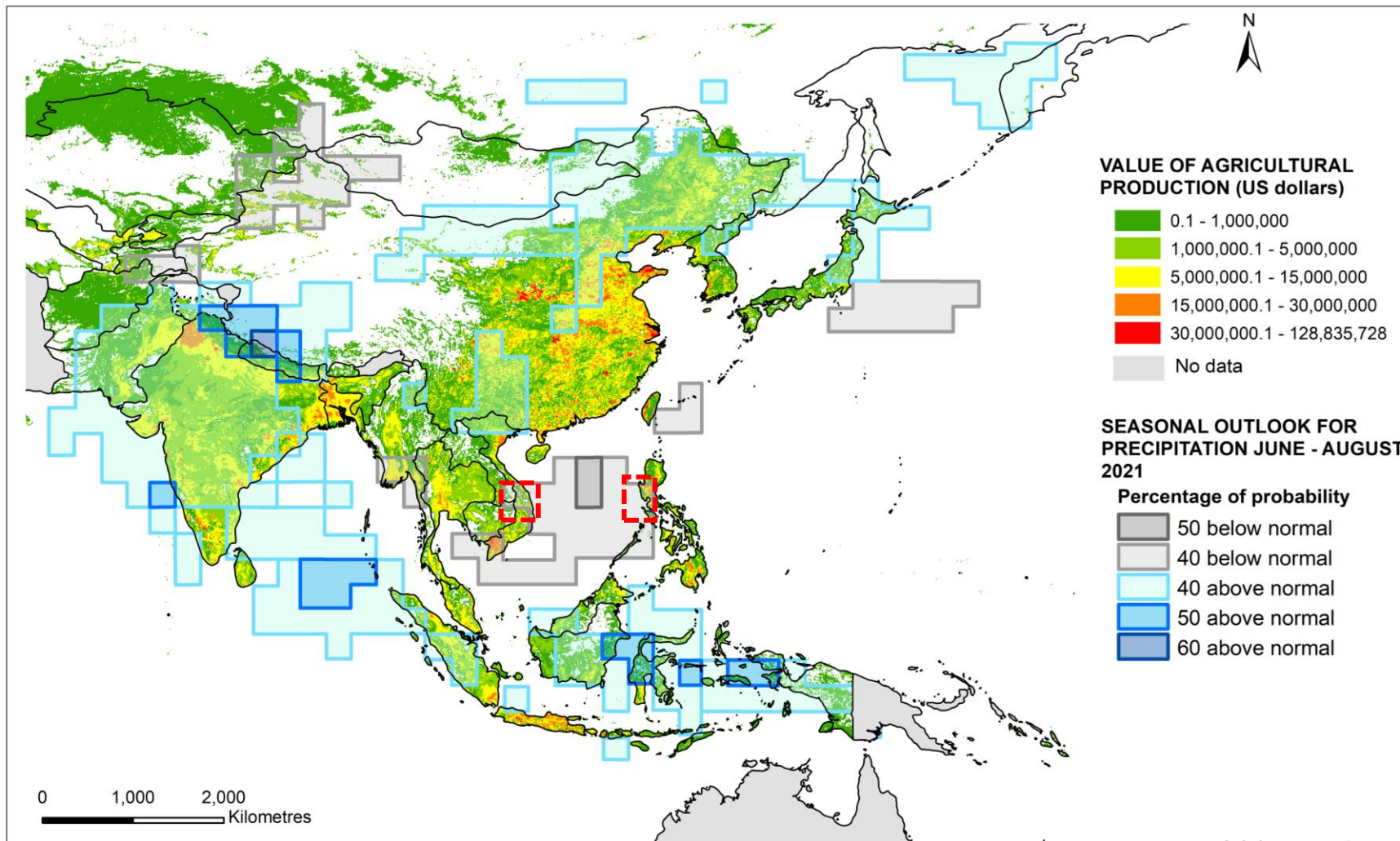
Hydropower plants exposed to potential drought



Hydro % of Electricity Production

Country	Hydro %
Tajikistan	92.7 (2019)
Viet Nam	34.9 (2018)

Understanding potential impacts on region's agricultural system



Sources : ESCAP, based on Global Spatially-Disaggregated Crop Production Statistics Data of 2010 (MapSPAM) V2r0 2020 and WMO Asia Pacific Seasonal Outlook Precipitation Data for June to August 2021.

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Value of agricultural production exposed to below normal precipitation.

	Rice export value (2019)	share of the global total export
India	\$7.1billion	33%
Thailand	\$4.2billion	19%
Viet Nam	\$2.6billion	12%

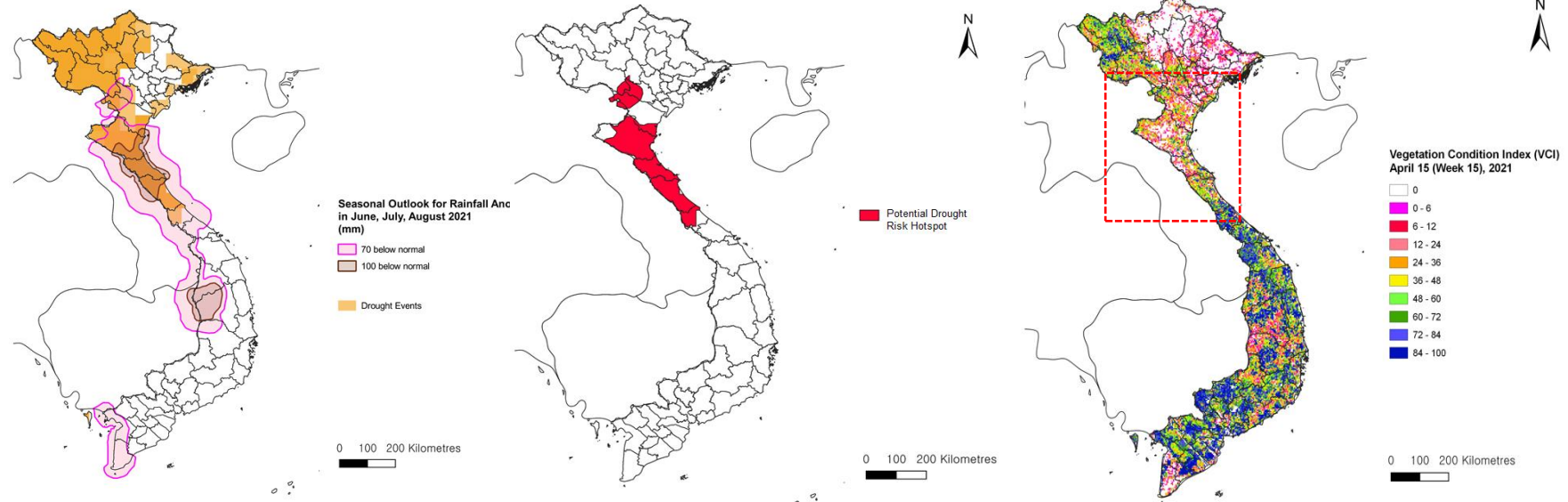
• 2018 data for Viet Nam

Data source: ITC Trade map (accessed on 6 May 2020)

Collaboration with WMO on IBFWS

Funded by CREWS-Canada through WMO,
currently implementing a subproject on IBFWS in Viet Nam

- National workshop
- Training manual
- Expert review meeting
- E-learning platform



ESCAP Resilience Week (23-24 August) – Event on IBF

- Tentatively planned on **24 August**
- **To share progress made and experiences** of member States
- **Meteorologist, Hydrologist and DRR experts to be attended**

**Science
Track**

Outcomes will be
Reflected at



ESCAP Committee on DRR – 7th session (25-27 August)

**Agenda
Item 4**

Review of work of the secretariat and UN system
at the regional level – Outcomes of the Asia-Pacific Disaster
Resilience Network

**Policy
Track**



Thank you !