



World Food
Programme

SAVING
LIVES
CHANGING
LIVES

Climate information for preparing and acting ahead of Climate shocks

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Evidence on acting ahead

Anticipatory Action (AA) saves money!

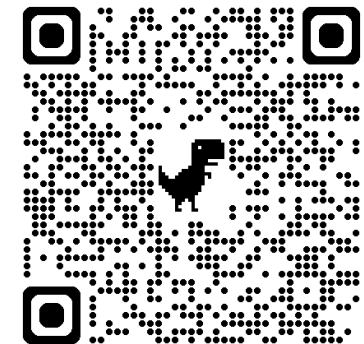
Bangladesh

- AA ahead of floods in 2020 reached people at **half the cost** of regular rapid response
- Avoid inflation and shortages - **Pre-crisis prices are lower than crisis prices**

Nepal - A modeled return on investment analysis over a 20-year period estimated that **USD 1 invested** in anticipatory action against flood could **save approximately USD 35** in future emergency response costs



Saving lives, time and money
Evidence from anticipatory action
May 2025



Evidence acting ahead

Anticipatory action saves lives and livelihoods

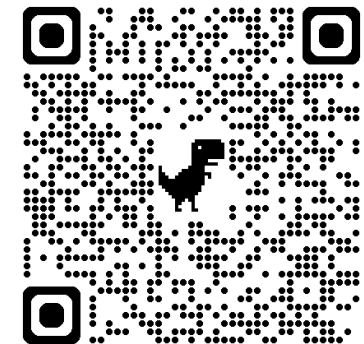
Impact evaluations in Bangladesh (2024) and Nepal (2022) show that people who received cash ahead of floods experienced **less hunger, better mental health and skipped fewer meals** than those who received this assistance weeks or months after the peak flooding. People have the resources to evacuate or secure their homes.



Saving lives, time and money

Evidence from anticipatory action

May 2025



Afghanistan AA Activation in 2025



In April 2025, 88,896 people in Faryab and Sar-e-Pul provinces in Afghanistan were supported with anticipatory cash transfers.

“It gave us the strength to believe in tomorrow.” How anticipatory cash helps families prepare for disaster



How do we use Climate/Weather Forecast information?

*What we know from the past season - **Observed condition***
Anything of concern?

*What we anticipate? – **Forecasted condition***

Seasonal (4 to 3 month) > Monthly (1 month) > 15 to 7 day

Lead time + When to monitor?

- Seasonal (**Before the onset** of season)
- Monthly (Recurring – **First week of every month** during wet season)
- 15 to 7 day (Recurring – **Every Monday** during the wet season)

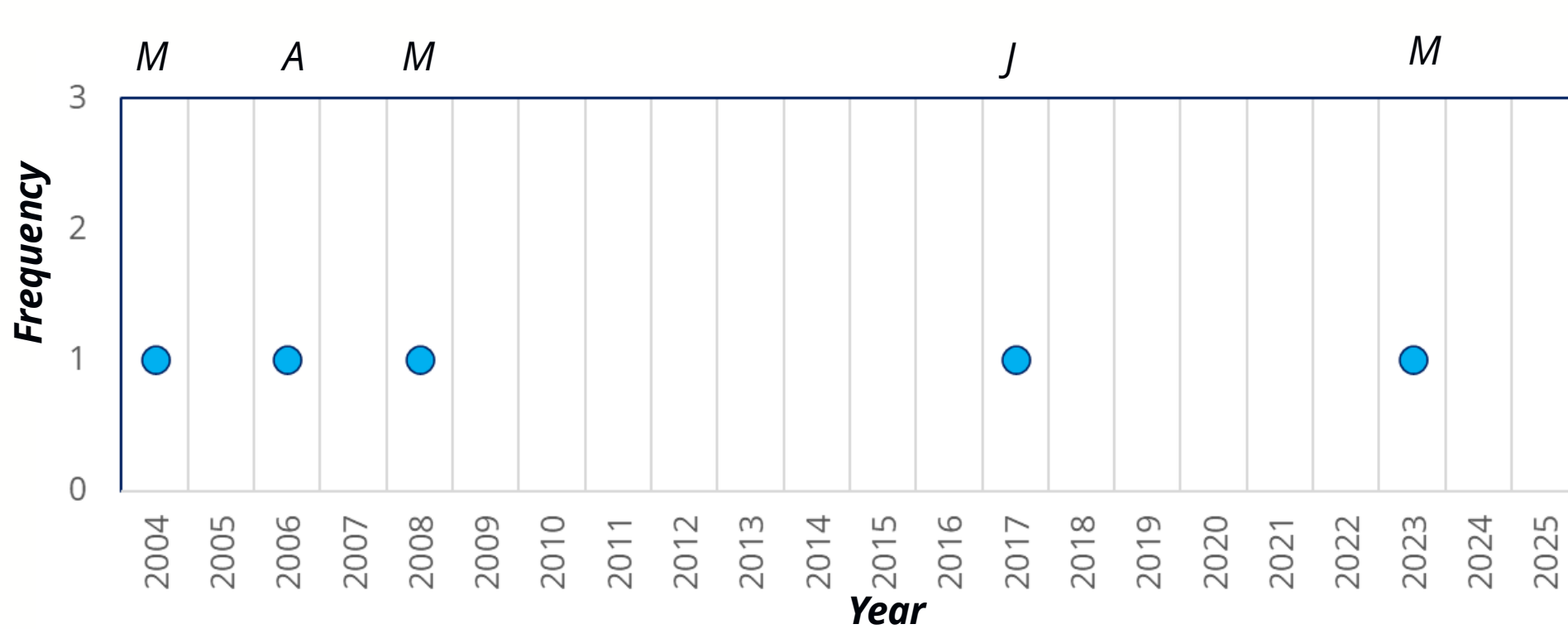
- **Seasonal Outlook** to Ensure operational readiness and contingency planning
- **Short term forecast to** Acting ahead based on forecast - **Anticipatory Action, Response planning**

Case -1 Preparing for Bay of Bengal Cyclone Season

Use various climate forecast/outlook products to inform/guide WFP **seasonal readiness** in Bangladesh and Myanmar Country Office, ahead of the season, *specifically for the implementation of Cyclone AA programs in Bangladesh and Myanmar and ensuring required Emergency preparedness and Response capacity is in place*

Case -1 Outlook for Bay of Bengal Cyclone Season

Tropical Cyclones during Apr-Jun in Myanmar



*Occurrence month
A – Apr, M-May*

*All cyclones
occurred during
Apr-May, except 1
cyclone that
occurred during the
week of 01 Jun 2017*

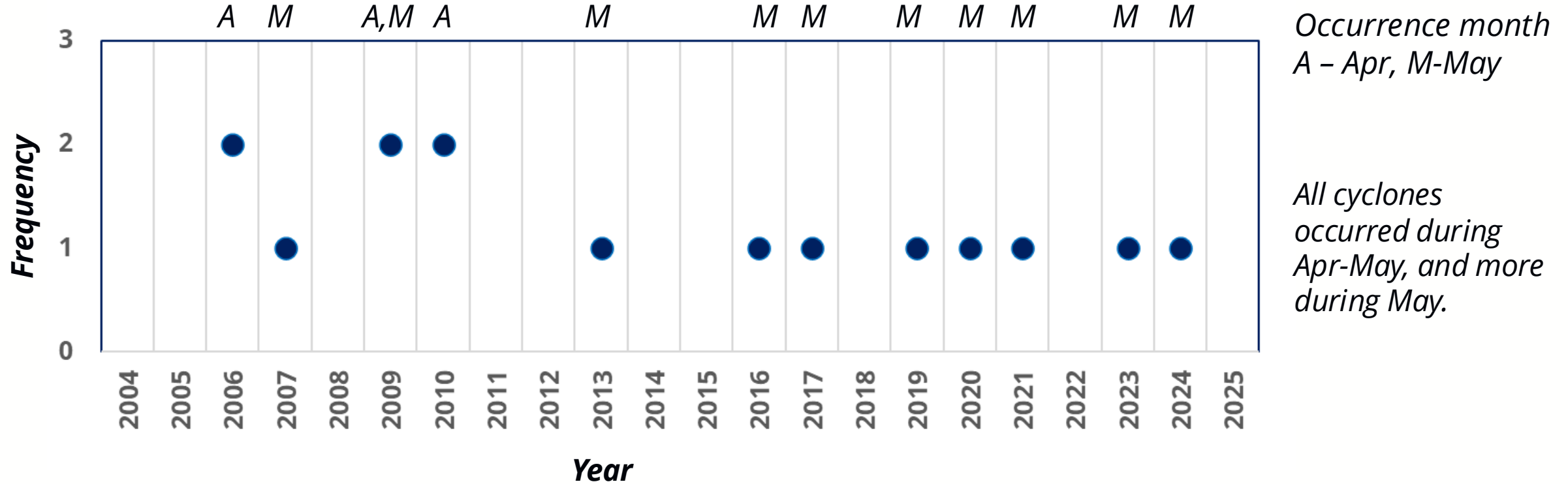
*People
affected*



Data Source: EMDAT

Case -1 Outlook for Bay of Bengal Cyclone Season

Tropical Cyclones during Apr-Jun in Bangladesh



*People
affected*

2006	2,965
2007	225
2009	3,954,550
2010	257,110
2013	1,498,644
2016	1,203,555
2017	3,300,012
2019	10,045
2020	2,600,000
2021	1,300,000
2023	750,012
2024	4,590,013

Data Source: EMDAT

Case -1 Outlook for Bay of Bengal Cyclone Season

Tropical Cyclone Vs ENSO Condition (2006-2025)

Cyclone Frequency

	Bangladesh	Myanmar
Neutral	3	2
El Niño	9	1
La Niña	4	2
Total	16	5

- No. of cyclones in Bangladesh during El Niño and La Niña years are more when compared to Neutral years
- No. of cyclones that made severe impacts in Bangladesh occurred during El Niño years when compared to La Niña and Neutral years. In Myanmar, cyclones that made severe impacts occurred during El Niño and La Niño years.

Total number of people impacted during tropical cyclone

Bangladesh

	<=50,000	50,000-0.1m	0.1-0.5 mi	>0.5 mi
Neutral	1			2
El Niño	2		2	5
La Niña	2			1
Total	5	0	2	8

Myanmar

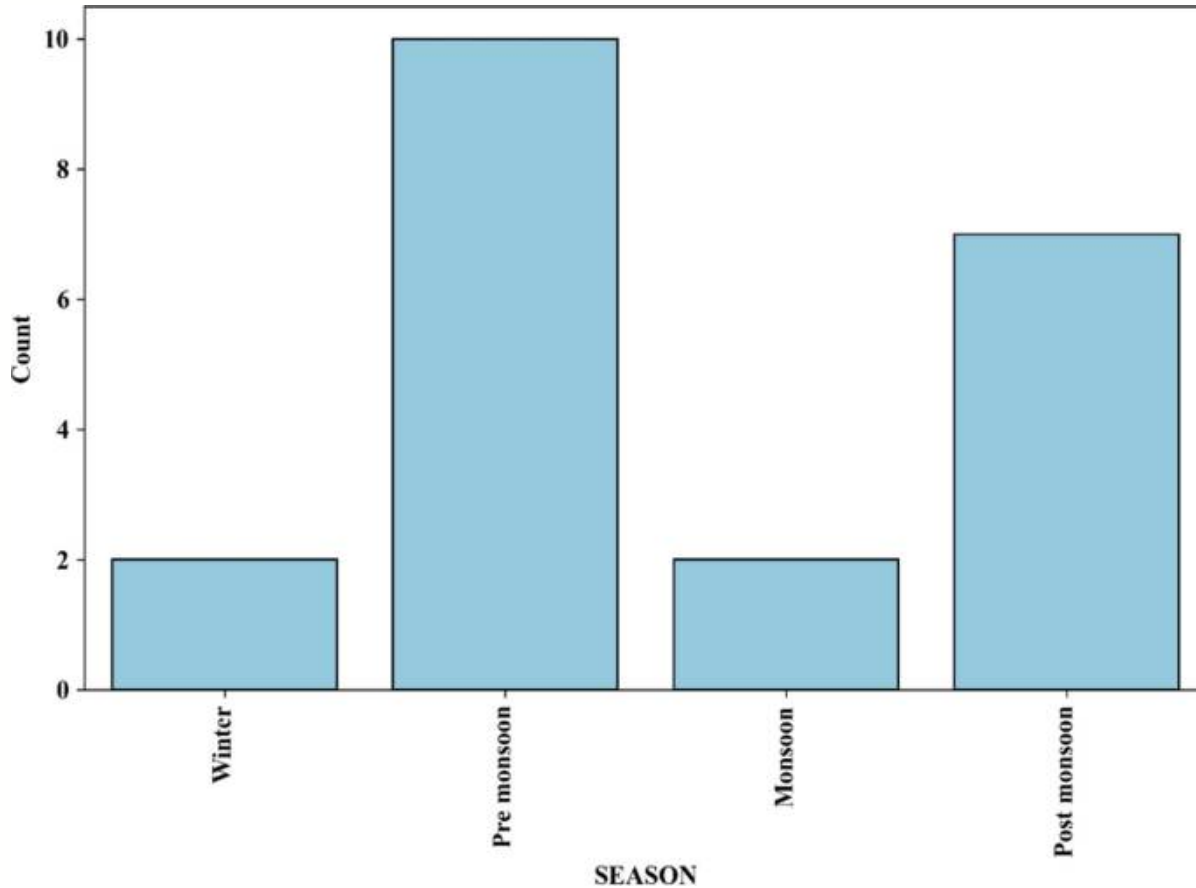
	<=50,000	50,000-0.1m	0.1-0.5 mi	>0.5 mi
Neutral	1		1	
El Niño				1
La Niña		1		1
Total	1			2

Tropical cyclone data from EMDAT

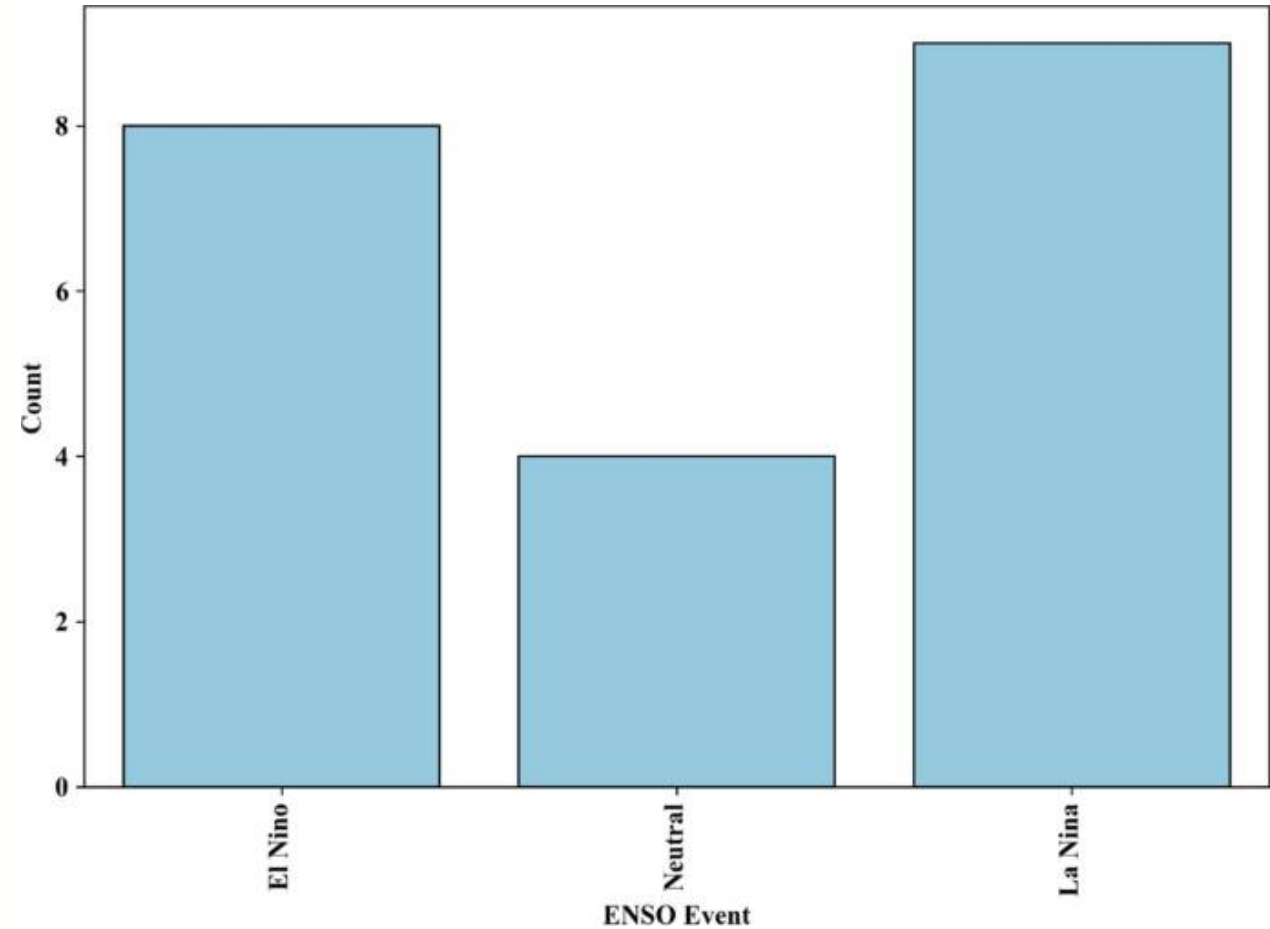


Case -1 Outlook for Bay of Bengal Cyclone Season

Cyclone seasonality



Cyclone frequency is higher during La Niña and El Niño years



Case -1 Outlook for Bay of Bengal Cyclone Season

Sample interpretation, ahead of season

- Likely to be a normal cyclone season as per ECMWF seasonal outlook
- Monitor RSMC's (2-week lead time, updated every 2 weeks) extended range cyclogenesis forecast
- **Monitor the triggers from AA protocols, from the defined sources for activation (NHMS, or other forecast products)**

Importance of Jun-Sep 2026 Seasonal Outlook for WFP

To inform/guide WFP's

- Seasonal readiness planning
- Implications for AA programs in Afghanistan (drought), Bangladesh (cyclone+flood), Myanmar (cyclone), Nepal (flood)
- Emergency preparedness and Response Capacity readiness