

Sundarban Month-by-Month Hazard Calendar

Indian Sundarban Delta (West Bengal) • Quick operational view of wind, rain, lightning, surge/rough sea, salinity intrusion, and fieldwork suitability

Month	Wind	Rain	Lightning	Surge & rough sea	Salinity intrusion	Fieldwork suitability
Jan	L	L	L	L	H	E
Feb	L	L	L	L	H	E
Mar	M	M	H	M	H	G
Apr	H	M	H	M	H	F
May	H	H	VH	VH	H	P
Jun	M	H	H	M	M	F
Jul	M	VH	H	M	M	P
Aug	M	VH	H	M	M	P
Sep	M	H	H	M	M	F
Oct	H	M	M	VH	H	F
Nov	H	L	M	VH	H	G
Dec	L	L	L	L	H	E

Legend (hazards)	Fieldwork	Spring-tide rule
L = Low M = Medium H = High VH = Very High	E = Excellent G = Good F = Fair P = Poor	In May and Oct–Nov, treat ± 3 days around new/full moon as extra-high water-level sensitivity (high tide + surge compounding).

What to do (quick)
Dec–Feb (stable): Surveys, training camps, embankment inspection/repairs; plan stockpiles and boat servicing.
Mar–May (storms + pre-monsoon cyclone): Lightning safety, communications tests, shelter readiness; protect aquaculture and keep emergency water-exchange plan.
Jun–Sep (monsoon): Monitor seepage/slips, erosion hotspots, waterlogging; health/WASH readiness; avoid heavy works on saturated embankments.
Oct–Nov (cyclone peak): Treat as surge months: pre-position boats & relief, run evacuation drills, lock in embankment watch on spring tides.

Basis: IMD 1991–2020 station normals (Diamond Harbour 42811, Digha 42901) + IMD/RSMC cyclone seasonality + multi-meter tidal ranges in the Hooghly–Sundarban estuarine system.