



Aviation challenges
associated with cyclone
activity



Two distinct groups for consideration:

- Fixed
- Variable





Fixed Parameters

- Warning System: BOM/Client/BHA
- Alert Phases: Blue/Yellow/Red

PHASE	EST. TIME	DISTANCE FROM FACILITY
BLUE ALERT	More than 48 hrs	400-200 nm
YELLOW ALERT	Within 24 hrs	200-100 nm
RED ALERT	Within 12 hrs	<100 nm



Fixed Parameters Cont'd

- Aircraft limitations, e.g. Start, stop, enroute, wind limits
- Offshore limits: Fixed platform/ Exploration unit/Ship



Fixed Parameters Cont'd

- Pitch, roll and heave limits

HELICOPTER TYPE	MAX. DECK MOVEMENT	MAX. WIND SPEED
SIKORSKY S-76A	Pitch 4° Roll 4° Heave 5m	Start-up 40-50 kts Inflight 75 kts Shut-down 35kts
AS332L SUPER PUMA	Pitch 3° Roll 3° Heave 5m	Start-up 40 kts Inflight 70 kts Shut-down 40 kts



Fixed Parameters Cont'd

- Security of airframe assets



Variable Parameters

- Cyclone genesis area- lead time
- Track heading and intensity
- Airport limits, e.g. Cross-wind limits for fixed wing, rotary shutdown



Variable Parameters Cont'd

- Crew flight and duty time limitations, availability of additional aircrew/engineers
- Duration of shut-in
- Impact upon community, roads, airport, power generation



THANKYOU!

QUESTIONS?

