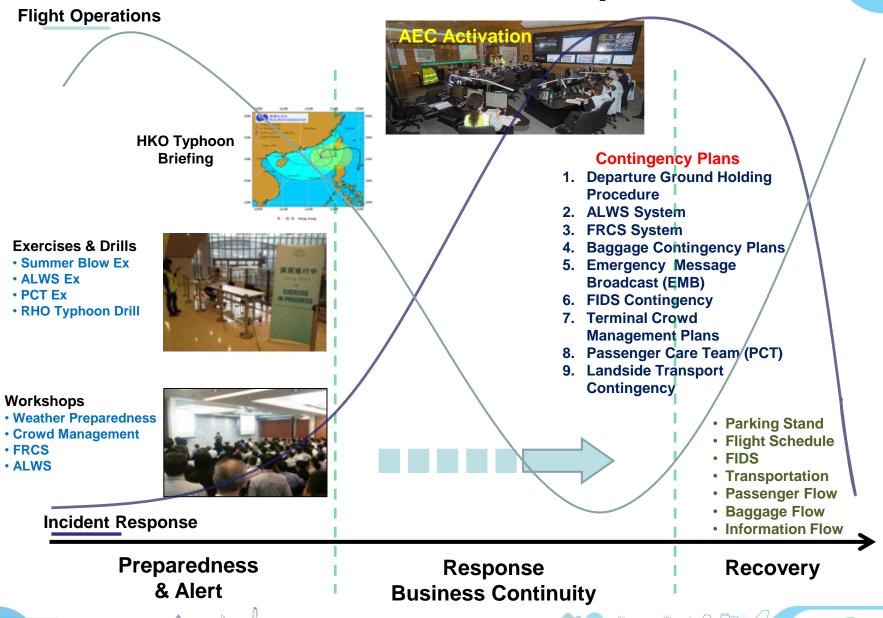
## Research Forum 2019 Hong Kong Observatory

# Impacts of Mangkhut on Airport Operations Airport Authority Hong Kong

## **Adverse Weather Response**



#### **Near Miss vs Hard Hit**

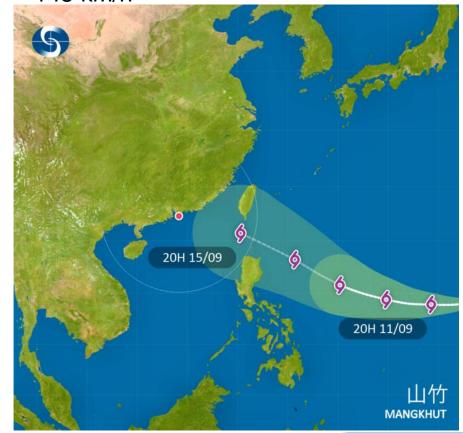
#### 10 September 2018

Maximum sustained wind near centre: 55 km/h



#### 11 September 2018

Maximum sustained wind near centre: 145 km/h



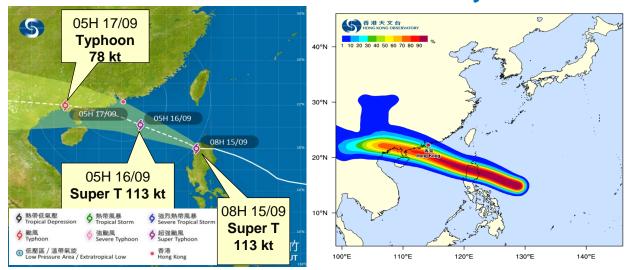




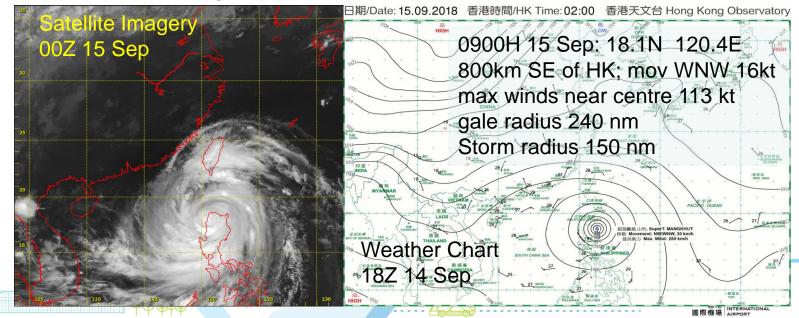
## **Weather Briefing & Airport Coordination**



#### Forecast Track and Uncertainty



#### Satellite Imagery and Weather Chart



#### **Provisional TAF**

TEMPO 1508/1514 02020G30KT 2500 TSRA SHRA FEW010CB SCT020	(N'ly Xw 15/23)
BECMG 1514/1516 03030KT	(N'ly Xw 19)
TEMPO 1516/1602 06035G45KT 2500 SHRA FEW010CB SCT020	(N'ly Xw 6/8)
BECMG 1600/1602 08040KT	(S'ly Xw 7)
TEMPO 1602/1612 12055G65KT 1500 +SHRA FEW008 SCT015CB BKN040	(S'ly Xw 42/50)
TEMPO 1612/1619 12045G55KT 1500 +SHRA FEW008 SCT015CB BKN040	(S'ly Xw 34/42)
BECMG 1619/1621 12030KT	(S'ly Xw 23)
TEMPO 1619/1703 13035G45KT 2000 +SHRA FEW008 SCT015CB BKN040	(S'ly Xw 30/39)
BECMG 1703/1705 15020KT	(S'ly Xw 20)
TEMPO 1703/1709 15025G35KT 2500 +SHRA FEW008 SCT015CB BKN040	(S'ly Xw 25/34)





#### **Impact**

- Rapid change in weather tonight overnight
- Closest approach: Early afternoon 16 Sep, 150 km SSW of HKIA
- Mean winds ≥ 35 KT : 00 19 Z 16 Sep
- Gusts up to 55~65 KT in squalls
- Periods of crosswinds ≥ 35KT
- N'lies → E'lies → S~ SE'lies
- Torrential rain
- Significant low level windshear & turbulence
- High hilltop winds from the south up to Monday afternoon
- Storm tide at CLK: 3 to 4 mCD (Can be 5 mCD for closer track)





#### **HKIA Preparation**

#### **Airlines / Business Jets**

- → Flight consolidation
- → Announced rebook and cancellation arrangement
- → Secured grounded aircrafts
- → Minimize transfer via HKIA

#### **AAHK**

- → Secured airbridges and airfield ground service equipment
- → Secured worksites
- → Secured landside trees, checked drainages
- → Crowd management setup
- → Mobilize F&B supplies
- → Coordinated for public transport and ferry services







## **HKIA** Response

## Airport Emergency Centre Activated







## **HKIA** Response – Business Continuity

#### Real time responses

- → Public transport / AEL disrupted
- → Coordinated taxi services, activated staff transport
- > Managed facilities defects due to strong wind
- → Passenger cares





#### **HKIA** Recovery

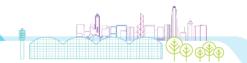
- Flight rescheduling
  - → 1,099 flights processed, dual runway operations
  - → Closely monitored with ATC on runway capacity
- Airfield and Terminal Measures :
  - → Alleviated aircraft parking stand constraints
  - → Recovery of damaged airbridges
  - → FIDs Contingency
  - → APM service extension
- Transportation Measures :
  - → Added bus routes for recovery





#### **Crowd Management**

Clear messages disseminated to the public, which were favorable to crowd management at the airport.





## **Crowd Management during Mangkhut**











#### **Passenger Communication**

#### Kept Passengers well Informed

- → Airlines Cancellation, Delay, Rebook, Refund (website, notifications, PR/travel advisory, social media, etc.)
- → AAHK Potential disruptions to air traffic (website, MyFlights, PA, UDS, etc.)





## **Media Management**

- → Work closely with airport stakeholders
- → Keep the media abreast of latest situation and manage expectations

#### **Joint Media Standup**







**SSBC** 



#### **Media Management**

#### Response to Electronic Media Enquiry

#### **News Clippings**

航班重新編配,預計全日可處理 一千班航班, 昨早航空公司 櫃位仍然有不少旅客輪候機位, 及後滯留機場旅客陸續消散。

#### 航班重新編配 機場旅客漸散

部分航班仍然取消,多間航空公 縮睡覺,亦有人在一角看書和用

有前往馬來西亞的旅客指,等 安排,認為安排混亂,因為航班 機場昨日早上依然人頭湧湧, 取消不能做任何事。他指機管局

或航空公司不論是住宿、食物或 飲品,或任何東西都沒有供給, 自己大威疲累。

#### 内地客:獲安排乘下午機可接受

京,但因為班機取消,在機場坐 了一整晚。他説,因為機場酒店 昂貴及無房,加上天氣惡劣,因 乘坐下午的飛機,認為航空公司 安排可以接受。



#### 山竹襲港:機管局宣布明天取消1200航班





場快線亦暫停服務。機管局表示明(17日)起重新編配航班,或需持續1至2日。



## **Staying Alert for the Next Typhoon**

#### **THANK YOU**

