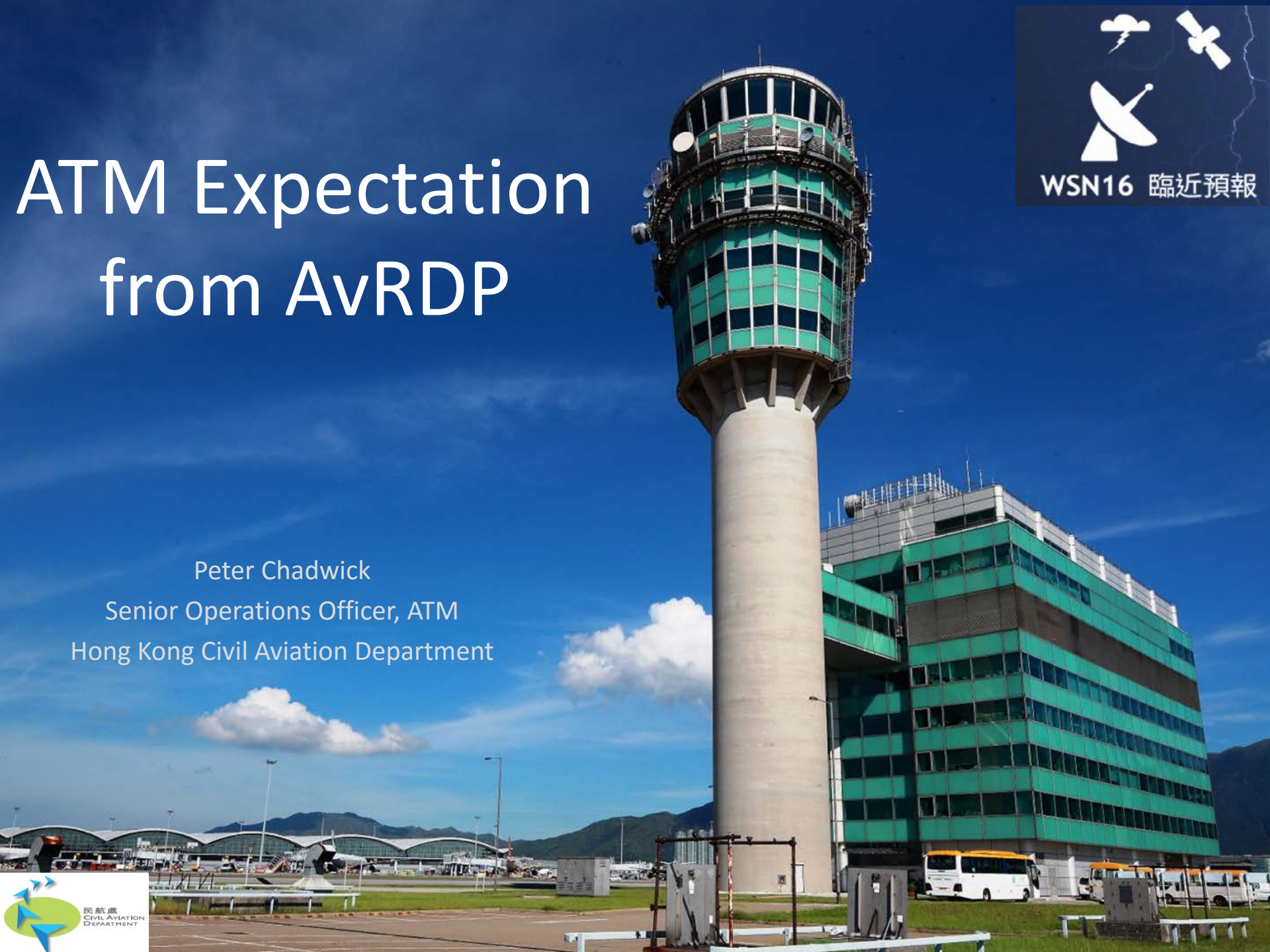


ATM Expectation from AvRDP

Peter Chadwick

Senior Operations Officer, ATM

Hong Kong Civil Aviation Department











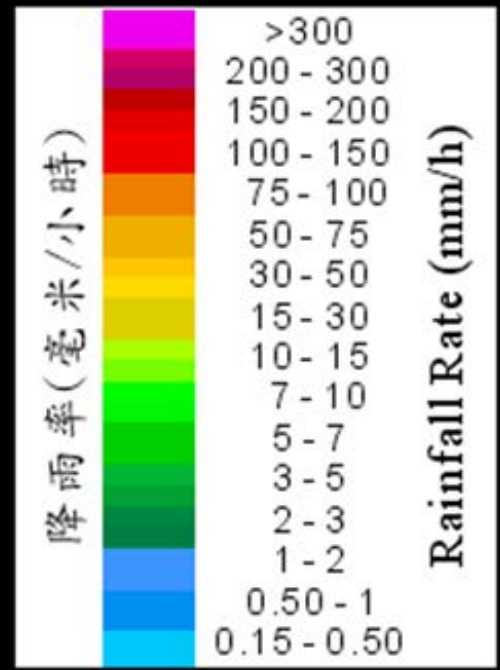
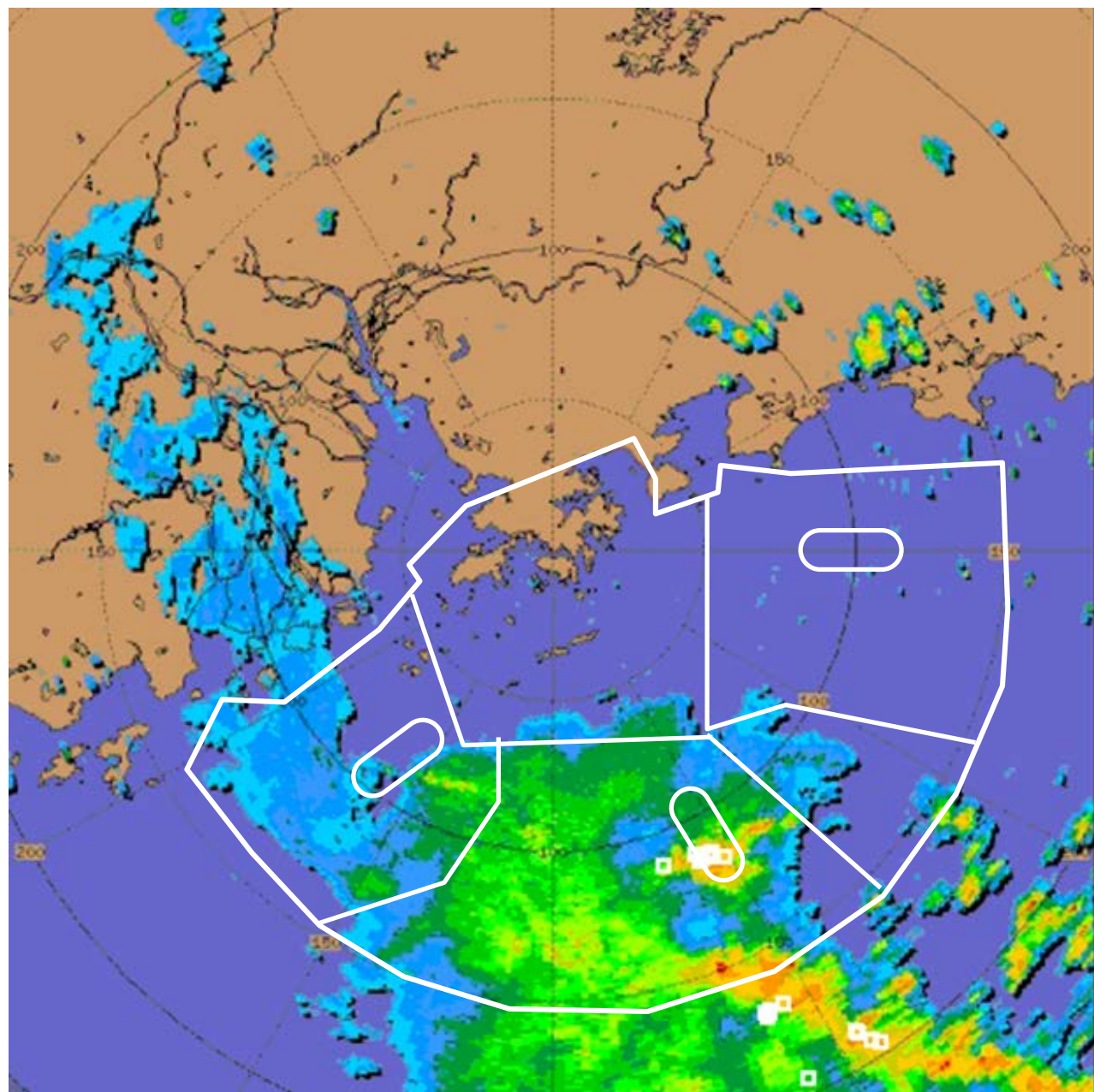
VIDEO: HKIA TERMINAL AREA

雲間閃電
Cloud-to-cloud lightning

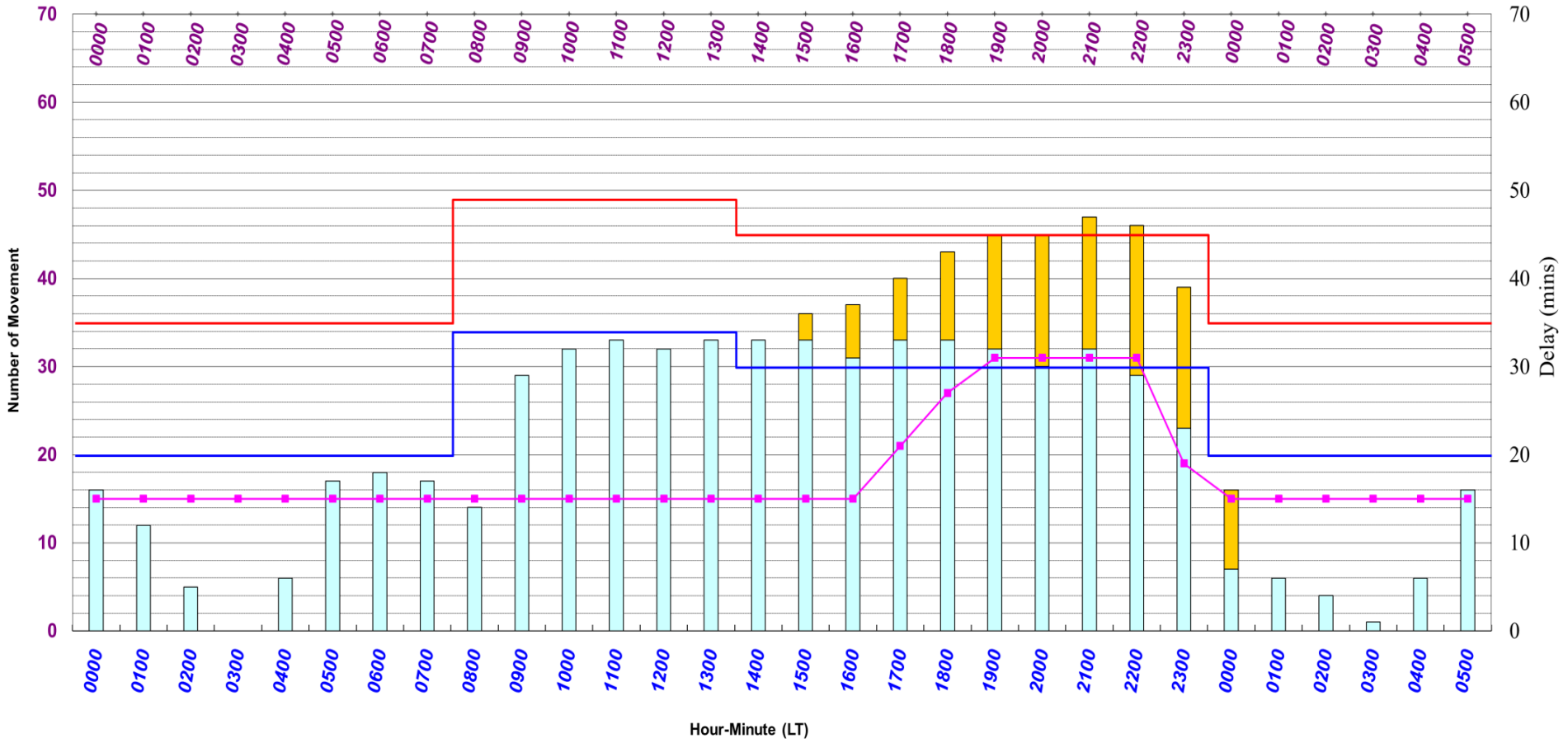
閃電探測時間 15:54-15:59
Lightning detection time 06-07-2016

閃電標記 □
Lightning symbol

雷達完成掃描時間 16:00
Completion of radar scan 06-07-2016



HONG KONG INTERNATIONAL AIRPORT
Arrival Aircraft Movement (Real-time)
06 Jul 2016 (updated at 1553 LT)

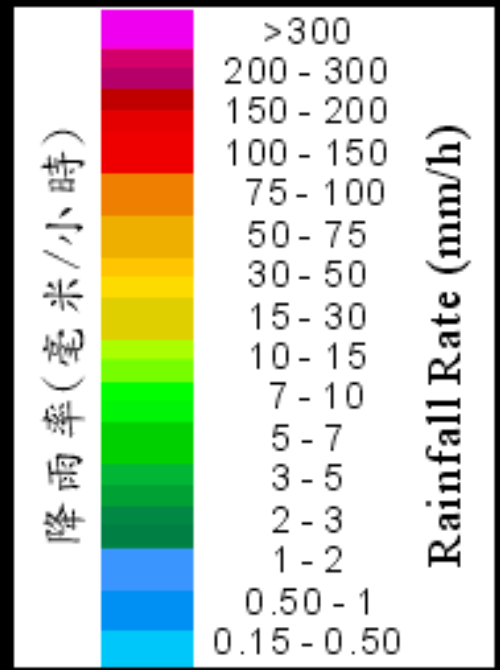
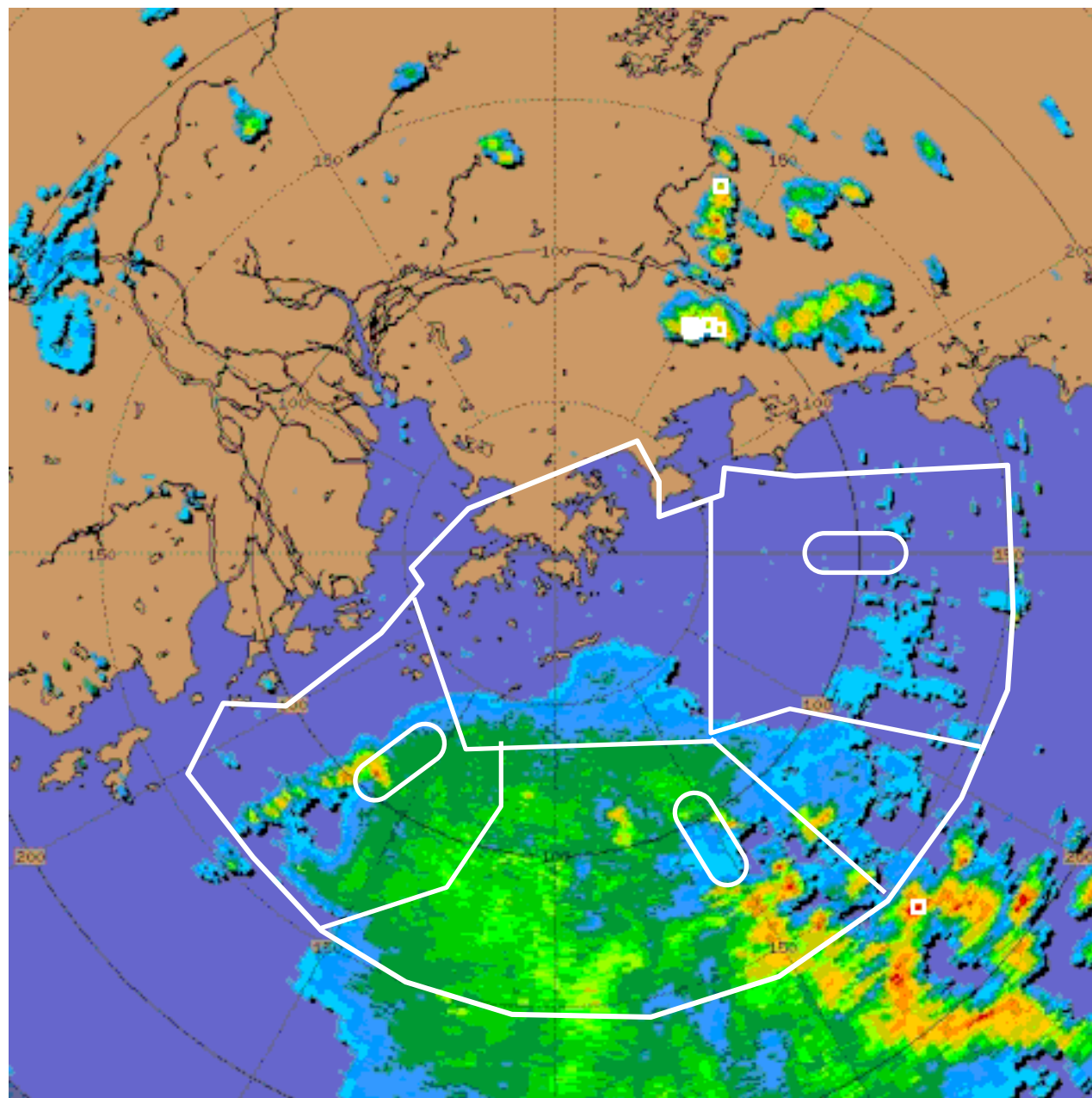


雲間閃電
Cloud-to-cloud lightning

閃電探測時間 16:54-16:59
Lightning detection time 06-07-2016

閃電標記 □
Lightning symbol

雷達完成掃描時間 17:00
Completion of radar scan 06-07-2016

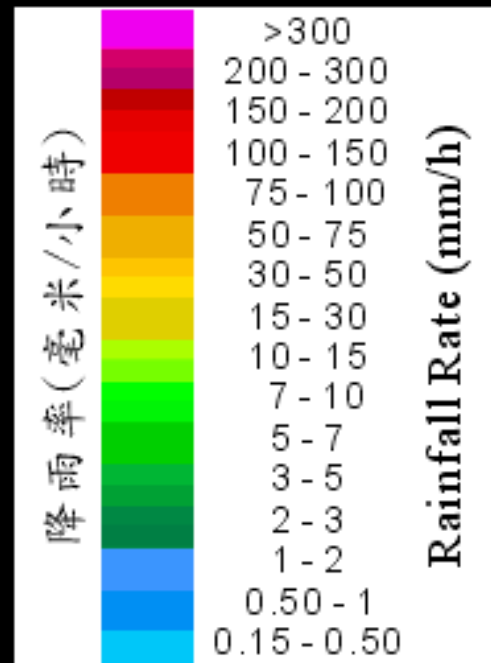
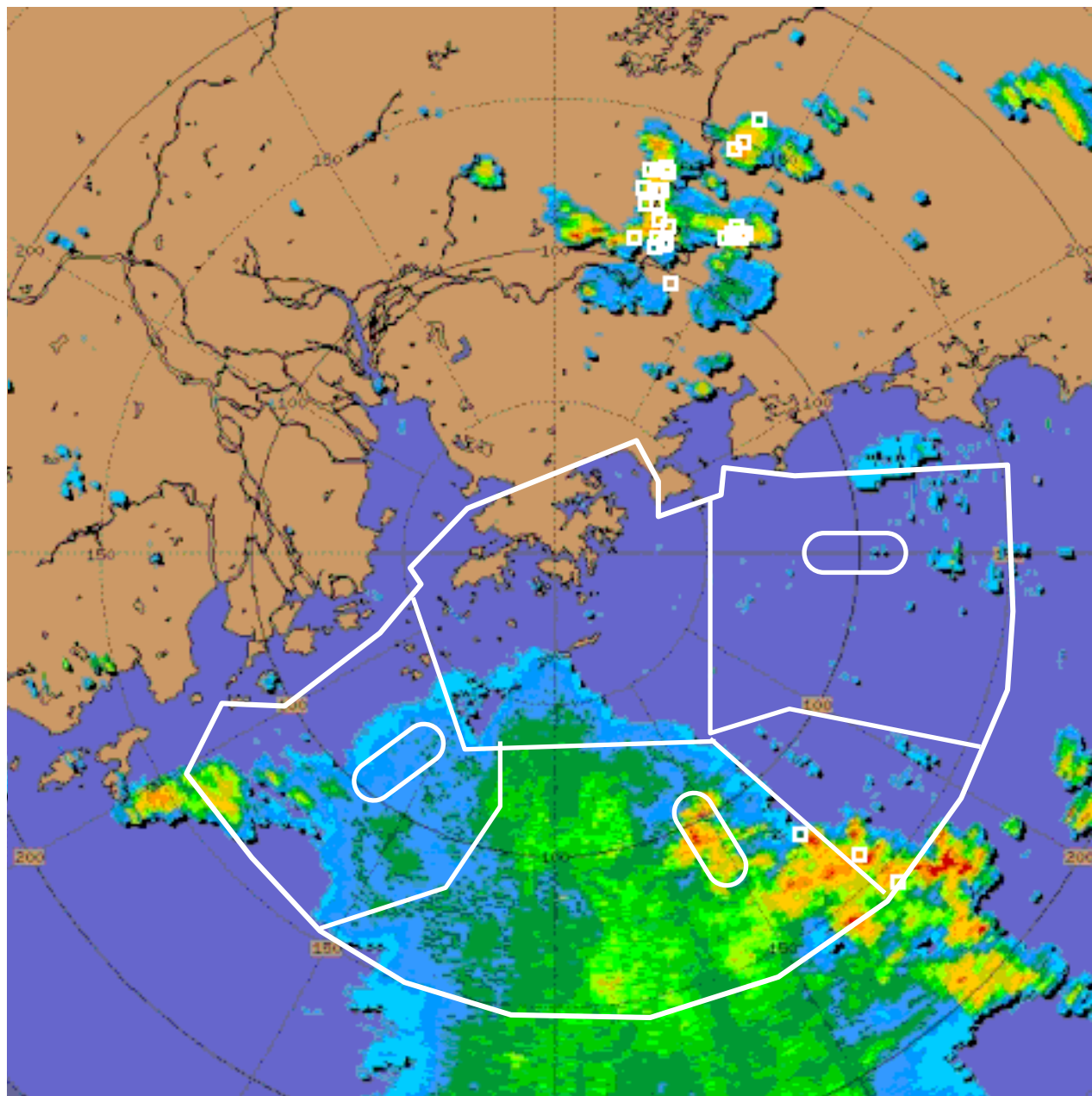


雲間閃電
Cloud-to-cloud lightning

閃電探測時間 17:54-17:59
Lightning detection time 06-07-2016

閃電標記 □
Lightning symbol

雷達完成掃描時間 18:00
Completion of radar scan 06-07-2016

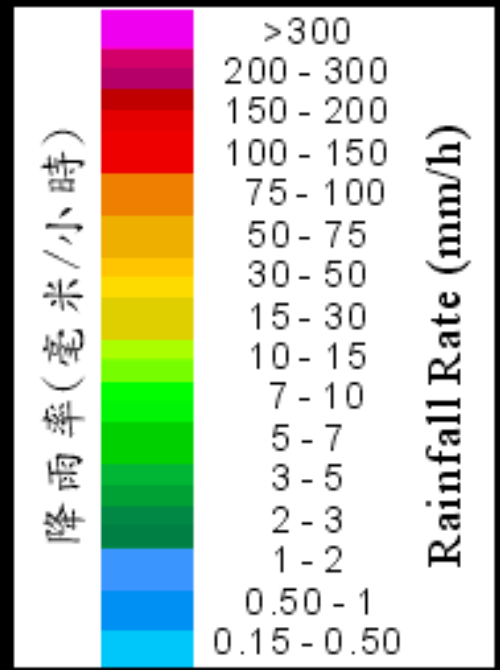
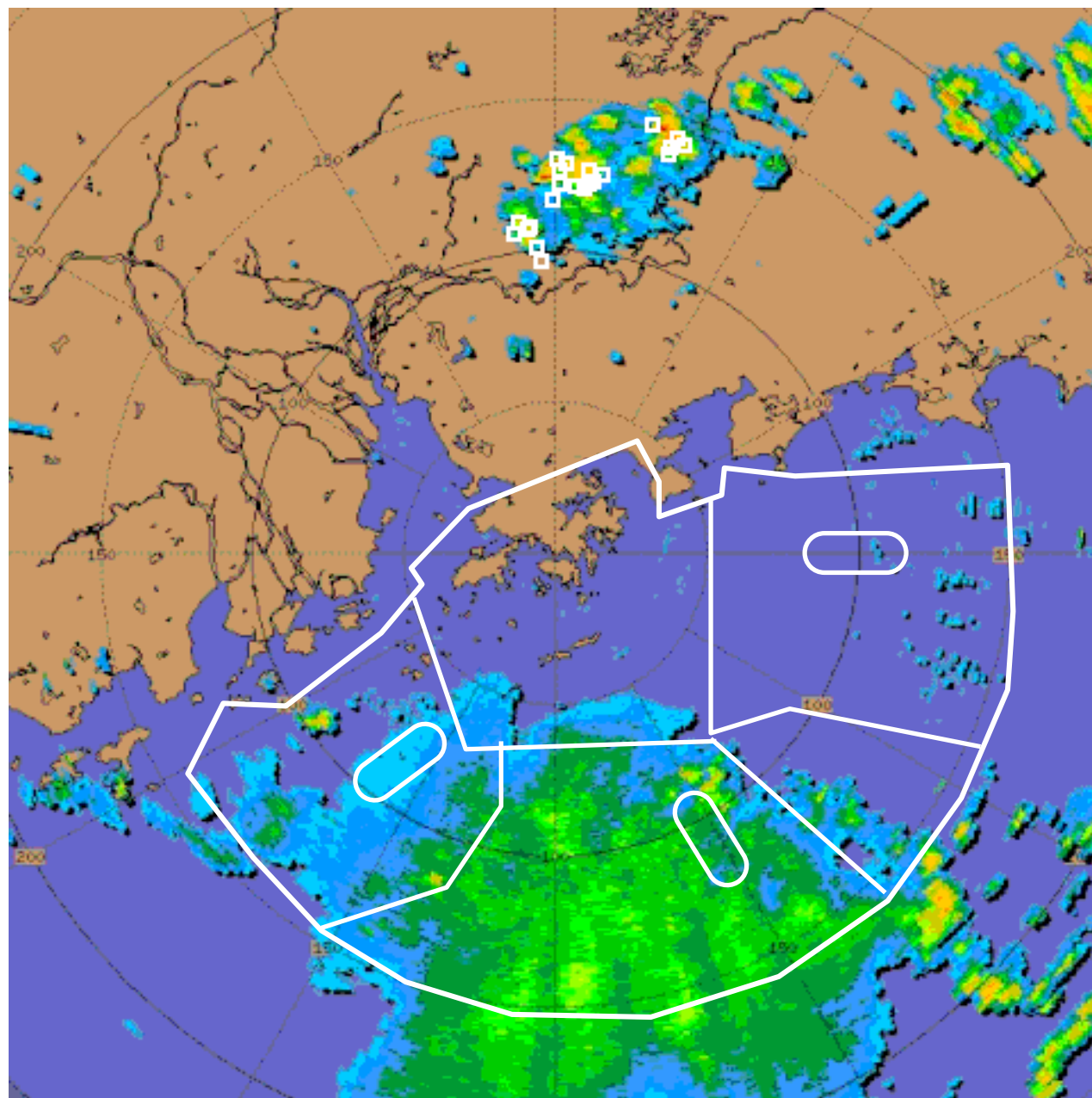


雲間閃電
Cloud-to-cloud lightning

閃電探測時間 18:54-18:59
Lightning detection time 06-07-2016

閃電標記 □
Lightning symbol

雷達完成掃描時間 19:00
Completion of radar scan 06-07-2016





香港天文台

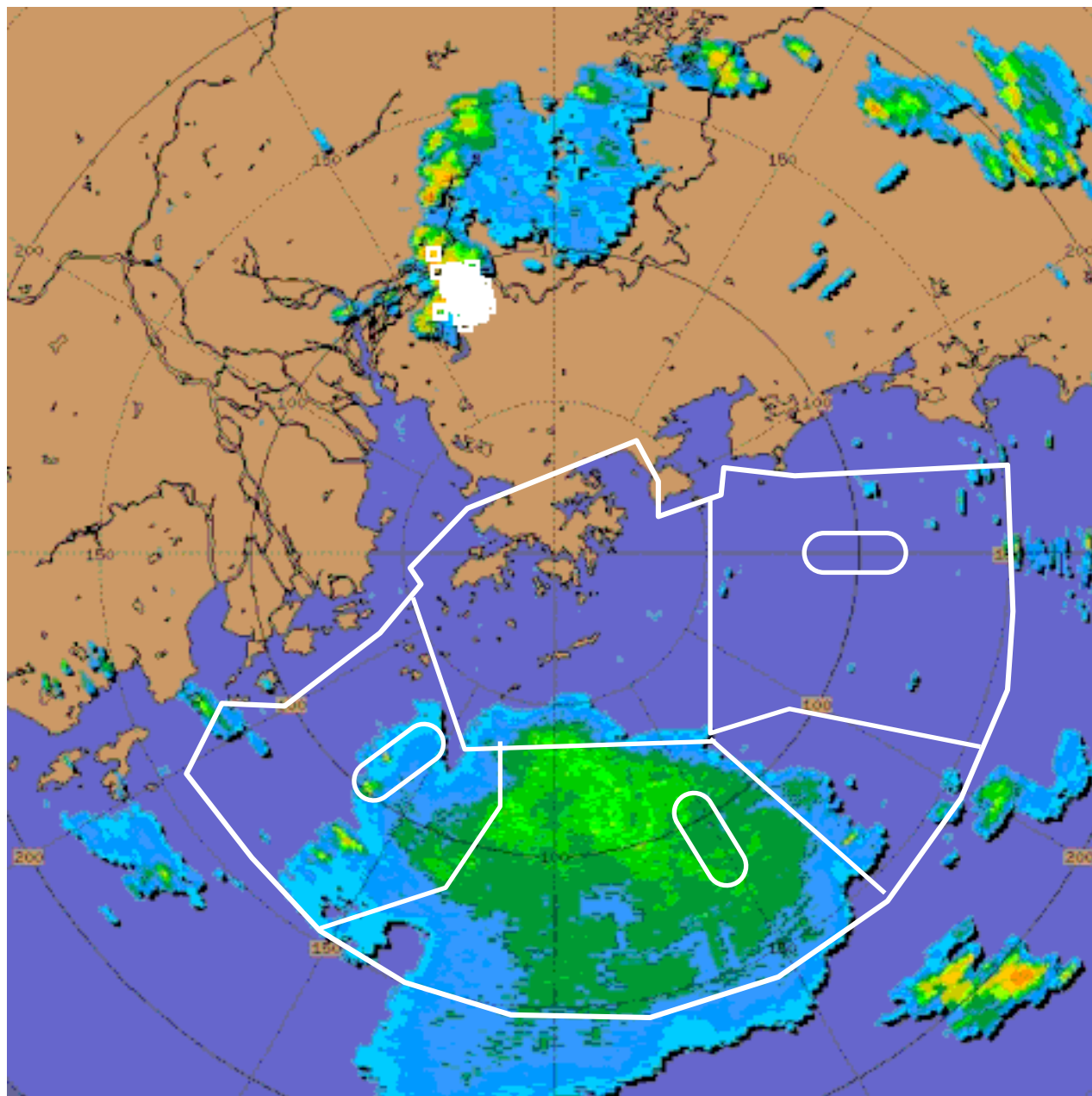
HONG KONG OBSERVATORY

雲間閃電 Cloud-to-cloud lightning

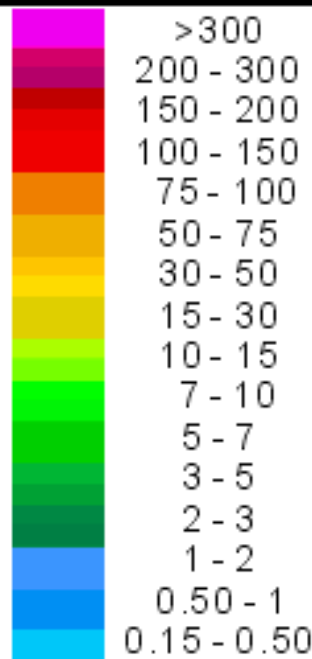
閃電探測時間 19:54-19:59
Lightning detection time 06-07-2016

閃電標記 □
Lightning symbol

雷達完成掃描時間 20:00
Completion of radar scan 06-07-2016



降雨率(毫米/小時)



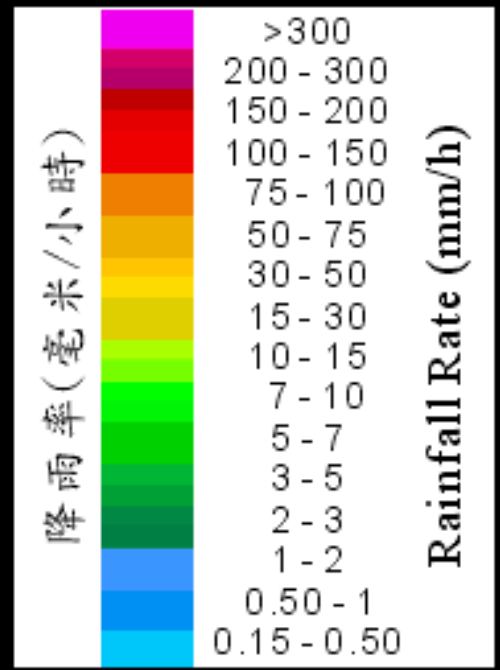
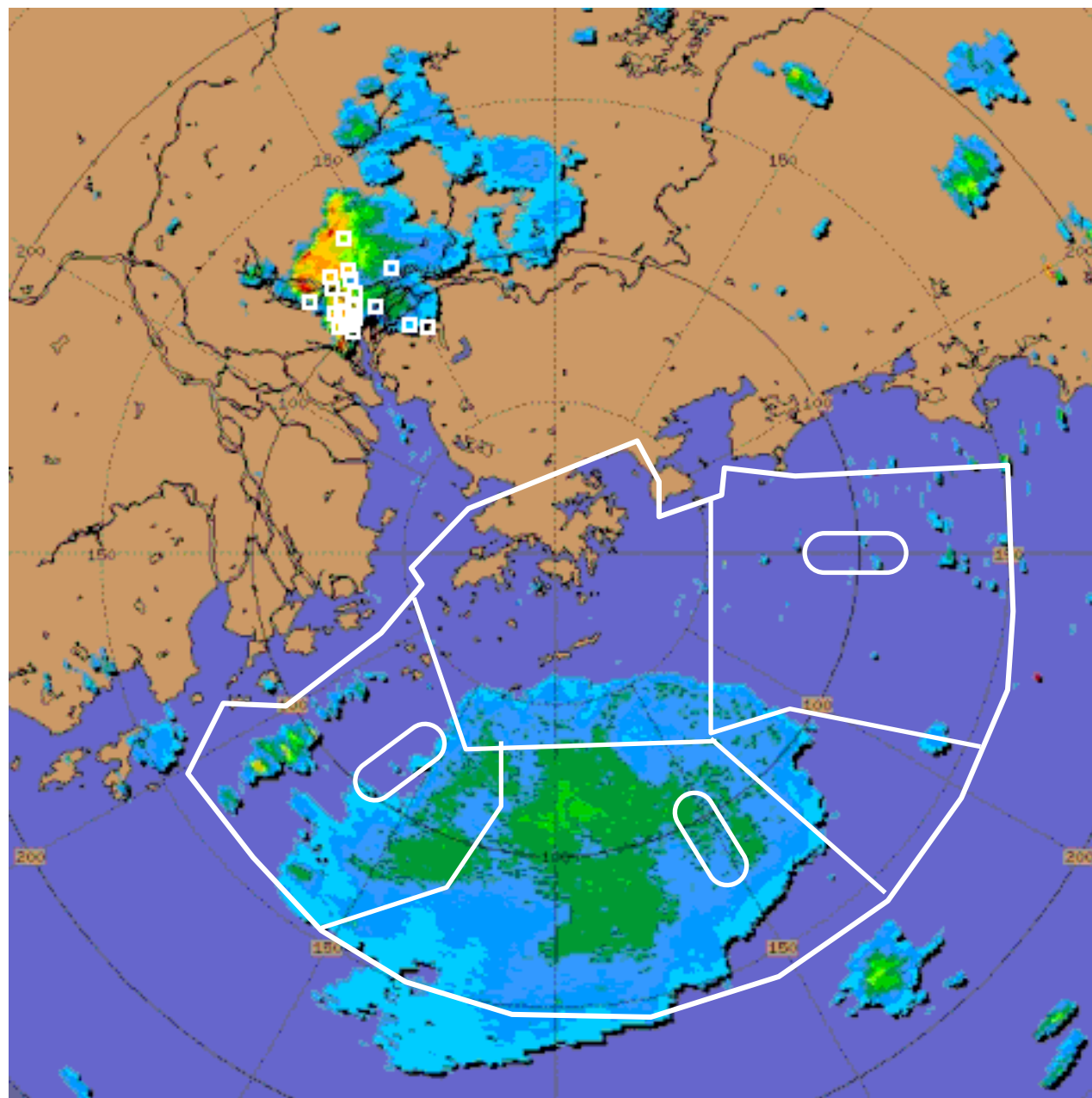
Rainfall Rate (mm/h)

雲間閃電
Cloud-to-cloud lightning

閃電探測時間 20:54-20:59
Lightning detection time 06-07-2016

閃電標記 □
Lightning symbol

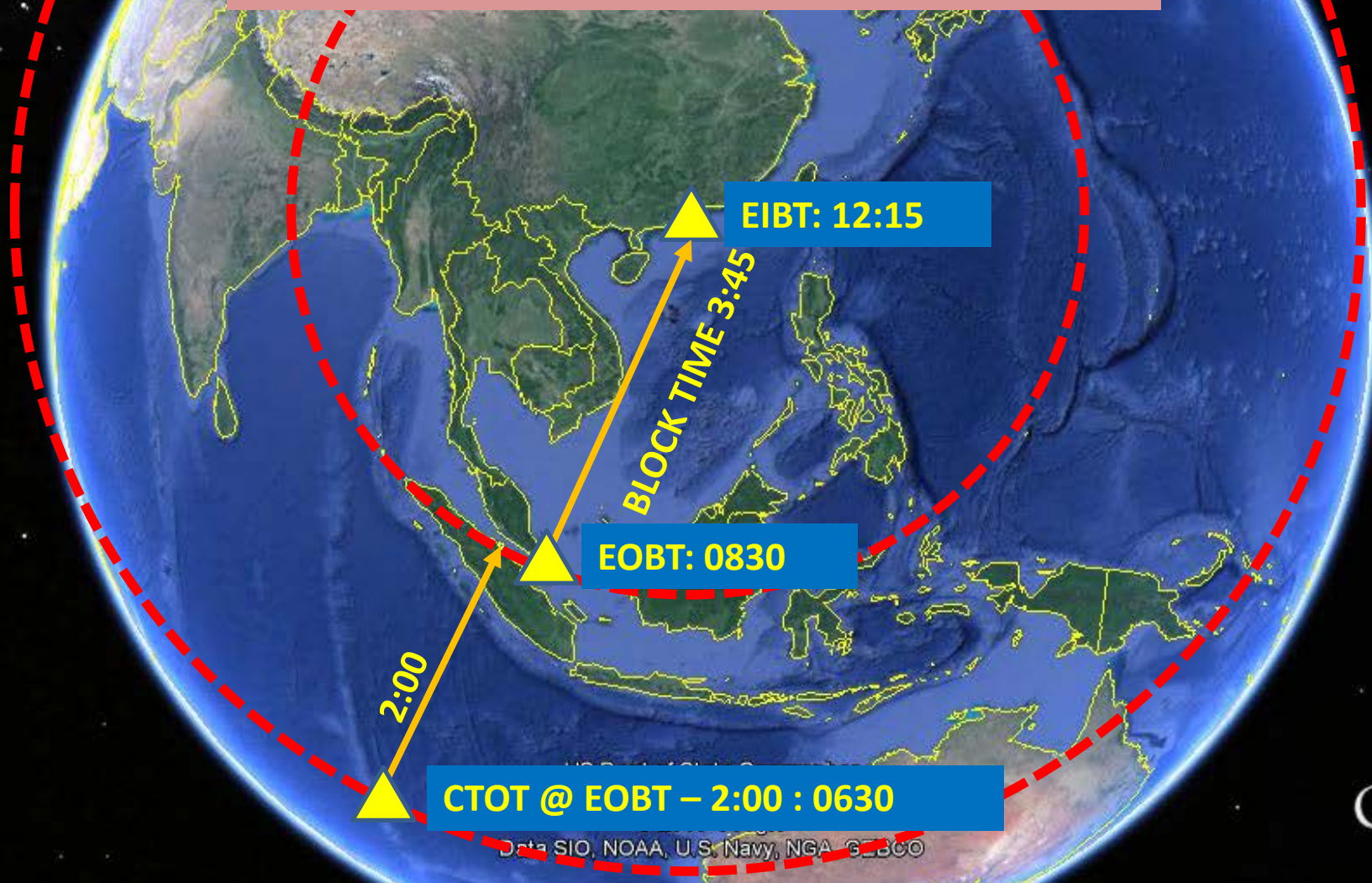
雷達完成掃描時間 21:00
Completion of radar scan 06-07-2016



*“The AvRDP will focus on nowcasting aviation weather, including the respective uncertainty/confidence estimation, over the Terminal Control Area for the next **0-6hr.**”*

Why 6 hours?

Example: SQ860 Singapore Airlines ([Boeing 777-200](#))
Departs Singapore (SIN) 08:30 (02 Oct) Changi Intl Terminal 3
Arrives Hong Kong (HKG) 12:15 (02 Oct) Hong Kong Terminal 1
Total travel time 3hrs 45mins



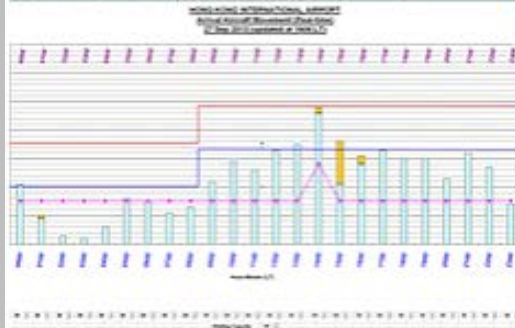
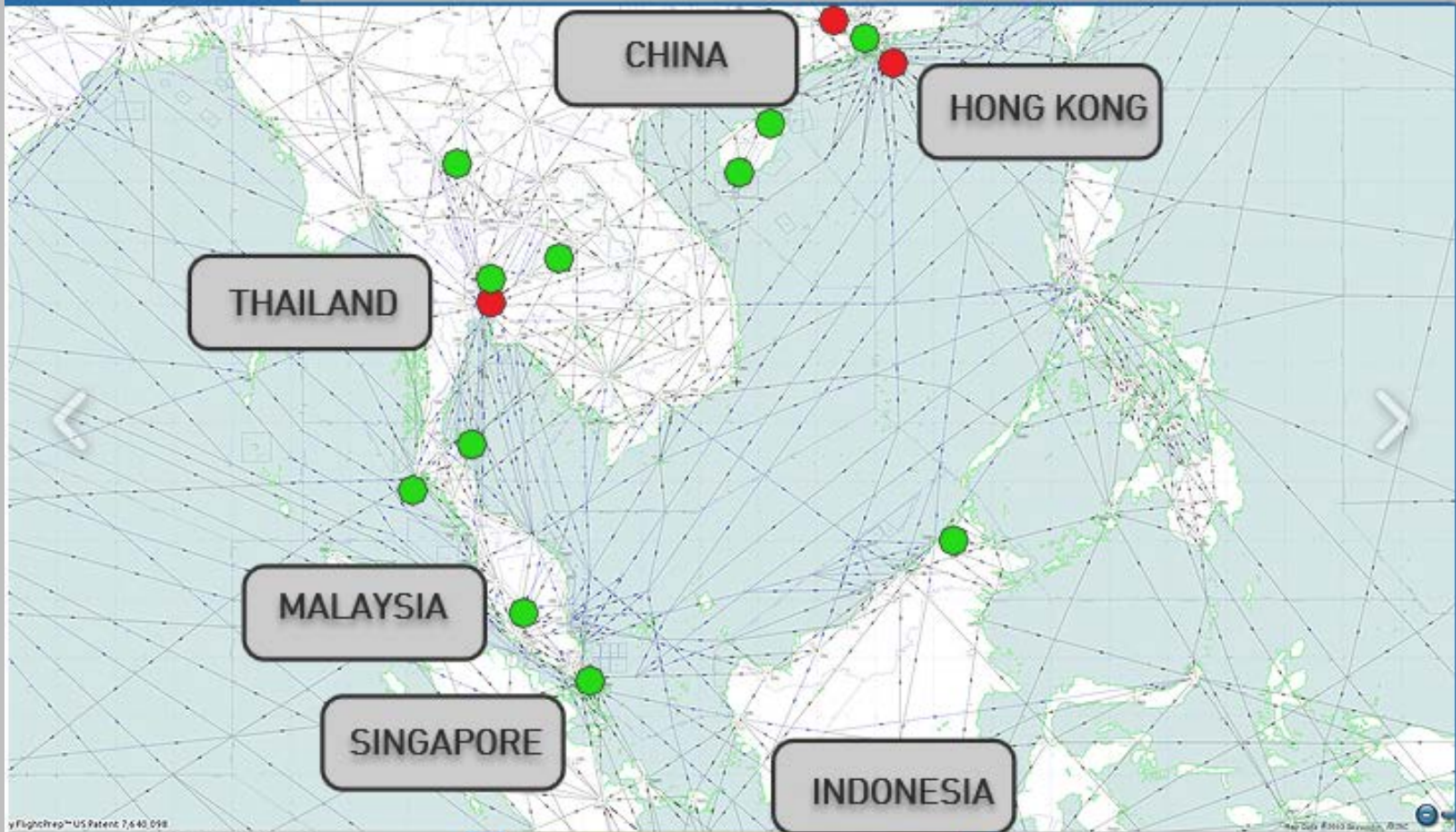
Multi-Nodal ATFM Network: Hong Kong Node

HOME

MULTI-NODAL INFO

TRIAL PLAN

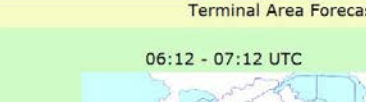
CONTACT





Significant Convection Monitoring and Forecast

Terminal Area Forecast valid from 06 UTC 08 Nov 2011 to 18



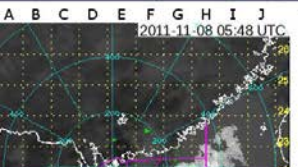
Aviation Thunderstorm Nowcasting

Forecast: 1804Z08NOV11-04:00 HKT

Location: HONG KONG
 Departure: HONGKONG

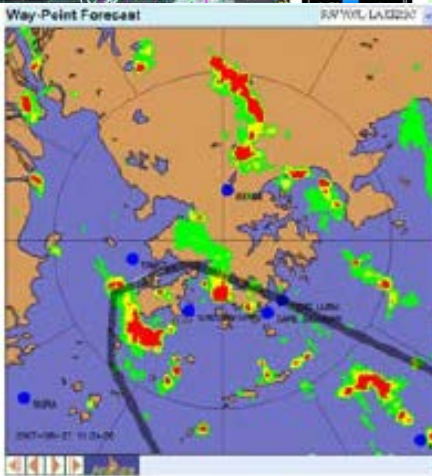
Time	0700	0800	0900	1000	1100	1200	1300
Overall	Green	Green	Green	Green	Green	Green	Green
07 Headwind	Green	Green	Green	Green	Green	Green	Green

Coordinates: 22.3044N, 114.1761E
 Reflectivity (dBZ): 28.5 (R2)
 Reflectivity (dBZ): 30.0 (R1)
 Top: 12.2 (R1)



Forecast for HKIA

UTC	07	08	09	10	11	12	13
Overall	Green	Green	Green	Green	Green	Green	Green
07 Headwind	Green	Green	Green	Green	Green	Green	Green



Arrival Flight Path Forecast

Way Point	0700	0800	0900	1000	1100	1200	1300
BEKOL	34	37	38	41	38	38	38
TAMOT	33	40	45	49	49	53	53
SIERA	0	0	0	0	0	0	0
CHEUNG CHAU	37	36	34	34	34	36	36

Way Point	0700	0800	0900	1000	1100	1200	1300
BEKOL	34	37	38	41	38	38	38
TAMOT	33	40	45	49	49	53	53
SIERA	0	0	0	0	0	0	0
CHEUNG CHAU	37	36	34	34	34	36	36

Way-Point Forecast

Forecast Time	10:00	11:12	11:14	11:24	11:34	11:38
HKIA	Green	Green	Green	Green	Green	Green
BEKOL	34	37	38	41	38	38


Way-Point Actual

Forecast Time	10:00	11:12	11:14	11:24	11:34	11:38
HKIA	Green	Green	Green	Green	Green	Green
BEKOL	34	37	38	41	38	38

Way Point	0700	0800	0900	1000	1100	1200	1300
BEKOL	34	37	38	41	38	38	38
TAMOT	33	40	45	49	49	53	53
SIERA	0	0	0	0	0	0	0
CHEUNG CHAU	37	36	34	34	34	36	36

Time	04:48	04:54	05:00
BEKOL	45	43	43
TAMOT	35	35	34
SIERA	36	37	37
CHEUNG CHAU	37	37	36

Questions?

- 
- *Safe* • *Orderly* • *Efficient*
 - *Airworthy* • *Teamwork*

Peter Chadwick
pmchadwick@cad.gov.hk



Committed to a Safe, Efficient and Sustainable Air Transport System