



ICAO BANGKOK

UNITING AVIATION

# Review of MET/ATM Webinar

*Presented by the Secretariat*

APAC MET/ATM Webinar and MET/R WG/10  
Online, 24 to 28 May 2021





## SP/01 – MET Service for International Air Navigation

- Traditional Annex 3 provisions
- Air traffic growth – capacity demand
- GANP – fully-harmonized system
- MET – interoperable systems and data
- SWIM – MET key enabler
- ICAO/WMO – transition to digital MET



## SP/02 – Intro to APAC Reg Guidance for Tailored MET to Support ATM

- Need for a reference document
- Step-by-step – preparatory to operational
- CDM, briefing, ATM-tailored, communication
- Examples (HKC, JPN, ROK and SIN)
- Q: technical and logistical aspects?
- Q: how to analyse impact on ATM/ops?



**SP/03 – Dev/Updating of ATM tailored MET**

**SP/04 – Aust ATFM MET Info**

**SP/05 – MET-ATM Collaboration in Singapore**

- MET: TS, CBs, Vis, Ceil, Wind
- ATM: AP/GDP, Approach, ATC
- Challenges: verification, methods, NWP
- Needs: ATM req., value-add NWP, improve.



SP/06 – Util wx info in improv arrival flight time pred

SP/07 – Assess Impact of Conv WX on AP Dep Rate

SP/08 – Integ of MET into Approach Spacing Tool

- AI technology to improve airline operations
- Algorithm estimate reduction in ADR due MET
- Integrating MET into Approach Spacing Tool for improving the spacing between flights



**SP/09 – Dev of Aviation Multi-Data Fusion System**

**SP/10 – Australian Thunderstorm Alerting Capability**

- Integrated MET display for MET and ATM common situational awareness
- Integrated MET display, nowcasting and alerting for AP ground operations risk management



## SP/11 – Space Weather Advisory Service for Aviation

- HF, COMM, GNSS, radiation
- 3 global SWXC from Nov 2019 (4<sup>th</sup> to come)
- Advisory information in TAC and IWXXM
- Expect more common info with solar max
- ICAO Doc 10100 – *Manual on Space Weather Information in Support of International Air Navigation*



**SP/12 – Imp of MET Info Exchange in IWXXM format**

**IP/09 – Update on SWIM Regional Coordination**

**SP/13 – Use case/req for SWIM-based MET**

- **IWXXM – machine readable, interoperable, non-proprietary**
- **IWXXM – high fidelity MET, enables SWIM, supports integration of MET and ATM**



**SP/12 – Imp of MET Info Exchange in IWXXM format**

**IP/09 – Update on SWIM Regional Coordination**

**SP/13 – Use case/req for SWIM-based MET**

- **CRV and AMHS – support SWIM / IWXXM**
- **SWIM-based MET information – support MET/ATM integration**
- **E.g., ATC and ATFM decision support tools**



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THANK YOU