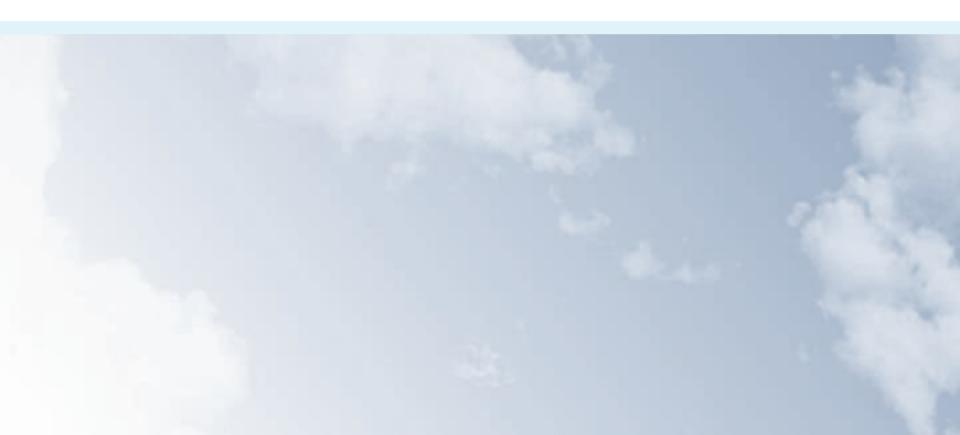


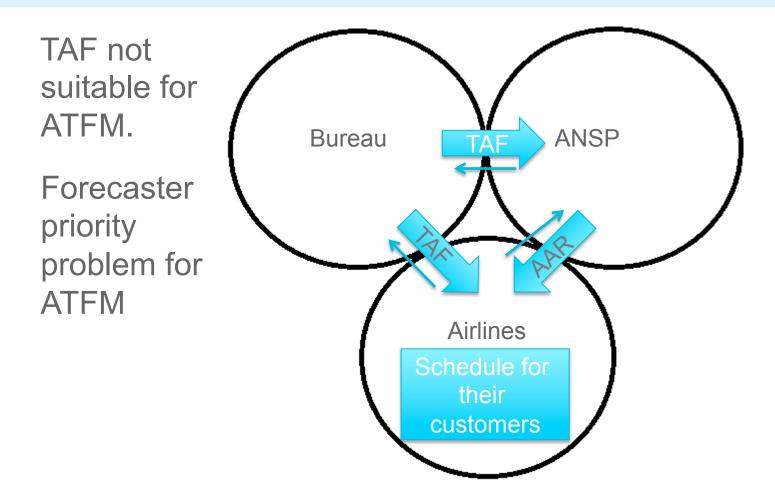
Bureau of Meteorology

Collaborative Decision Making MET-CDM



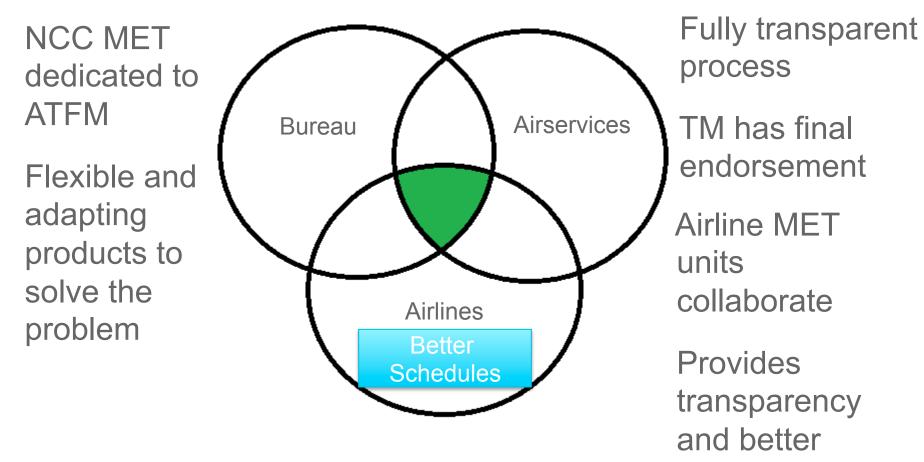


How information flowed between areas of expertise (Pre-METCDM)





MET CDM Understanding each others business



certainty



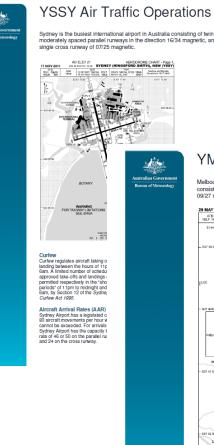


- Collaborative approach between Airservices, Bureau of Meteorology, Qantas (Met) and Virgin Australia (Met).
- Process requires people with combined expertise in meteorology and ATFM.
- Ground delay program.
- Forecast delay related to:
 - forecast weather ATFM impacts and;
 - forecast demand on capacity.
 - Highly complex problem.
- Prior to Met CDM acceptance rates calculations were based on TAF.
- Refined acceptance rates through MET CDM.



Reference Cards

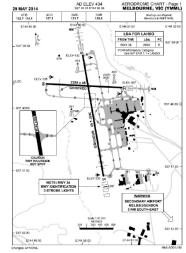
- Process requires people with combined expertise in meteorology and ATFM.
- Reference cards developed to date reflect the known parameters that affect traffic flows at the airports.
- They are a reflection of documentation and discussions with Airservices traffic management.
- Reference cards managed jointly.



moderately spaced parallel runways in the direction 16/34 magnetic, and a

YMML Air Traffic Operations

Melbourne is the second busiest international airport in Australia consisting of two intersecting runways in the direction 16/34 magnetic and 09/27 magnetic.



Noise Abatement There is no curfew at Melbourne airport. However, noise abatement procedures apply. These procedures include a preference to use runway 16 for noise batement, particularly in the overnight

Terminal Area (TMA) This term is used to describe the designated area of controlled airspac surrounding a major airport where there is a high volume of traffic. The Terminal Area (TMA) is a 30nm radial area

Internative Internatinternative Internative Internative Internative I	airservices Airservices MET CDM Rate Calculator Software Venion 21.84							TAF AMD YBBN 0905122 0906/1012 01014KT 9999 FEW040 FM091200 30006KT CAV/0K FM092400 17008KT 9999 8C/T020 FM100200 12015KT 9999 8C/T025 FM101000 14007KT 9999 8C/T020													
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DATE/TIME 002000 M02100 002200 M02200 M02000 M020000 M02000 M0200000 M	Non MET CDM Notes		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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Programmed Rates Image: Communication Communication Image: Communication <thimage: communication<<="" td=""><td>Previous Arrivel Rate</td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thimage:>	Previous Arrivel Rate	•																			
2 A stronger low level SE change develops along the coast to the south, with local winds turning Ely ahead of that to favour RWY 01 by around 002. There is the possibility of showers developing on the leading edge of this change as it spreads northwards. 3 The main low level SE wind change begins to move through from around 02 or 032, with winds turning through ESE to SE and increasing to 15 to 20 knots aloft below about 2000th during the early afternoon. There is the risk of low level wind shear as the change develops due to its initial shallowness. As the change spreads north and inland, this provides a trigger for more significant showers and thunderstorms. Given that the change initially is shallow as it spreads inland, and steering level winds are WSW 20 to 25 knots, there is enough of a risk that these will affect approaches onto RWY 01 and also occur near the airport once the low level capping inversion is broken. 4 As the SE change spreads further north and inland and deepens, the main instability zone shifts further west and north with areas directly upstream of the airport less likely to see showers and thunderstorms over the far west and north of the TMA. 6 The cool, shallow but still humid airmass behind the change provides a somewhat conducive environment for lower cloud as the inversion height appears to be around 2500ft. As a result, there is a risk of cloud ceiling near 1500ft and possibly as Iow as 1200ft (ILS), so have indicated this as an adjustement in the suggested MET CDM rate. 8 The cool, shallow but SUB DUE WIP. Refer to NOTAM C663/17.		_																			
ETy ahead of that to favour RWY 01 by around 002. There is the possibility of showers developing on the leading edge of this change as it spreads northwards. The main low level SE wind change begins to move through from around 02 or 032, with winds turning through ESE to SE and increasing to 15 to 20 knots aloft below about 2000ft during the early afternoon. There is the risk of low level wind shear as the change develops due to its initial shallowness. As the change spreads north and inland, this provides a trigger for more significant showers and thunderstorms. Given that the change initially is shallow as it spreads inland, and steering level winds are WSW 20 to 25 knots, there is enough of a risk that these will affect approaches onto RWY 01 and also occur near the airport once the low level capping inversion is broken. As the SE change spreads further north and inland and deepens, the main instability zone shifts further west and north with areas directly upstream of the airport less likely to see showers and thunderstorms over the far west and north of the TMA. End Ferroret for lower cloud as the inversion height appears to be around 2500ft. As a result, there is a risk of cloud ceiling near 1500ft and possibly as low as 1200ft (ILS), so have indicated this as an adjustement in the suggested MET CDM rate. Image: NON MET COM NOTES 1	MET CDM Notes		1	A pre	-fronta	al trou	gh mo	ves th	rough	with a	weak	SW cl	hange,	so hi	ave opt	ed for	RWY	19.			
a The main low level SE wind change begins to move through from around 02 or 03Z, with winds turning through ESE to SE and increasing to 15 to 20 knots aloft below about 2000ft during the early afternoon. There is the risk of low level wind shear as the change develops due to its initial shallowness. As the change spreads north and inland, this provides a trigger for more significant showers and thunderstorms. Given that the change initially is shallow as it spreads inland, and steering level winds are WSW 20 to 25 knots, there is enough of a risk that these will affect approaches onto RWY 01 and also occur near the airport once the low level capping inversion is broken. d As the SE change spreads further north and inland and deepens, the main instability zone shifts further west and north with areas directly upstream of the airport less likely to see showers and thunderstorms with a reduced risk at the airport. Low level SE winds now 20 to 25 knots below 2000ft, but only 10 to 15 knots above that to 3000ft. Expect a greater concentration of thunderstorms over the far west and north of the TMA. 6 The cool, shallow but still humid airmass behind the change provides a somewhat conducive environment for lower cloud as the inversion height appears to be around 2500ft. As a result, there is a risk of cloud ceiling near 1500ft and possibly as low as 1200ft (ILS), so have indicated this as an adjustement in the suggested MET CDM rate. 8 The con AVBL DUE WIP. Refer to NOTAM C663/17.			2	E'ly a	head (of that	to fav	our R	WY 01	by aro	und 0	DZ. Th	ere is t	the po	ossibili				ning		
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enviroment for lower cloud as the inversion height appears to be around 2500ft. As a result, there is a risk of cloud ceiling near 1500ft and possibly as low as 1200ft (ILS), so have indicated this as an adjustement in the suggested MET CDM rate.			4	furthe thund 2000f thund	er wes Jerstor t, but Jerstor	t and r rms wi only 10 rms ov	north v ith a re 0 to 15 ver the	with an educed i knots far we	reas di I risk a s abovi est and	rectly at the a e that t d north	upstre airport to 3000 of the	am of Low Oft. Ex TMA	the air level S pect a	rport E wir great	less lik nds nov ter con	ely to v 20 to centra	see sh 25 kn tion of	iots be f	s and slow		
7 SM/TM NOTES				envire there this a	oment is a r	for lo isk of	wer clo cloud	oud as ceiling	; the in 3 near	versio	n heig and p	ht ap ossibl	pears t y as lo	o be a	around	2500f	t. As a	result	t. –		
SWITM NOTES 1 2 2 NON MET CDM NOTES 1 RWY 14/32 NOT AVBL DUE WIP. Refer to NOTAM C663/17.								in the	sugge	sted M	ET CD	M rate	e.								
NON MET COM NOTES 1 RWY 14/32 NOT AVBL DUE WIP. Refer to NOTAM C663/17.								intere	sugge	sted M	ET CD	M rate	e.								
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		8	7		14/32																

Airservices N	IET CDM I		airserv Calcul e Version	ator		1000 FM10 FM10 FM10 FM11	AMD YB 8KT 999 00200 12 01000 14 02200 10 10400 05	9 SCT0 2015KT 4007KT 2008KT 5013KT	30 9999 Si 9999 Si 9999 Si 9999 Si	CT025 CT015 CT025 S CT035	SCT035							
Autoload TAF			EMAIL COP	Y TO SUPP	ORT	TEMP PROF RMK	R 1010/ PO 1012 B30 TEN 28 25 23	/1022 9 //PO 10	999 BK 03/1010	N012 VRB30	G45KT	1000 TS	SRA BK	N010 B	KN0500	8		
LATEST TAF	RECALCUL	ATE		CLEAR	DATA		20 20 20											
YBB	N		Т	ues	sda	y, 1	0 C							Fin			First Lig Last Lig	ht: 0815
DATE/TIME		092000	082100	082200	092300	100000	100100			LES RA				100800			LCULATIO	
BUSINESS RULES SUMM																		
	BR RWY						01/14	19	19	19	19	19	19	19	19	19	19	19
	aliwind (Worst) sewind (Worst)						-2.3	-0.8	46.0	45.0	46.0	45.0	45.0	46.0	45.0	-2.7	-2.7	-2.7
	Approach Mode						CROPS		LVOFOC	LVOIPOG				LVOIPOG	LVOIFOO		IMC	ILS
	BR Rate						28	24	12	12	12	12	12	12	12	24	24	21
RESET BELOW									MET	CDM F	ATE				EXP	ND/COMP/	NOT MET O	DM
Wind *True	LOAD WINDS						090	100	120	120	120	120	120	140	140	140	150	150
Significant Wind Speed							10	14	10		10	10		10	14	12	10	TU
Antiolpated RWY Tallwind (Main RWY)							01	01	19	19	19	19	-0.8	19	19	19	19	19
Crosswind (Main RWY)							-4.5	-4.1	-0.8	-0.8 16.0	-0.9 18.0	-0.9 18.0	-0.8 18.0	-5.9 13.8	12.9	-4.7	-5.4	-5.4
Tallwind (Cross RWY) Crosswind (Cross RWY)					_													
Anticipated Approach							IMC	IMC	TS-21	TS-21	TS-21	IMC	IMC	IMC	ILS	ILS	ILS	ILS
MET CDM Initial Rate							24	24	21	21	21	24	24	24	21	21	21	21
MET CDM Notes								1	1	1	1	1	1	2	2	2	2	2
MET CDM X-Faotor	EXPORT PDF							-1				-1	-1	-2				
MET CDM Final Rate	NOTIFY SMITM						24	23	21	21	21	23	23	22	21	21	21	21
								TCU	SM/TM	FINAL A	DJUST	MENT						
SM/TM Notes																		
SM/TM X-Factor																		
Final Arrival Rates [NEXT						24	23	21	21	21	23	23	22	21	21	21	21
									NON M	ET CDM	NOTE	3				SHOW/H	DE COM	
Non MET CDM Notes							1	1	1	1	1	1	1	1	1	1	1	1
DATE/TIME		082000	082100	082200	092300	100000	100100	100200	100300	100400	100500	100600	100700	100800	100900	101000	101100	10120
Previous Arrival Rates		24	24	24	24	24	24	23	21	21	21	22	23	24	23	23	23	23
Programmed Rates 7	ACCEPT RATES																	
MET CDM Notes		¹ Temperatures inland and along the hills/ranges are 30-32C, with dewpoints in the upper teens. The conditions are already there for convection within the TMA, we just need a trigger. Once a cell or two do develop, it may be like popcorn kernels popping, where individual cells will trigg other storms on the outflow from the storm. The random nature of popping kernels should be kept in mind, as there is a chance a storm could develop with little warning near/at the aerodro but the storms will most likely be first seen along the ranges. Steering winds are 25KT W-SW so they could take about 90 minutes to reach impact the aerodrome directly. The good news is that the environment will not support prolonged storm activity as the showers/storms will cool lower levels, resulting in more stable conditions.												e a gger xe Irome, V'ly, s is ool the				
		2			low it.	The o	ombin	ation	of the	precip	itation	from	the sh	owers	storm	s, and	the	
		3	persis after l	stent o last lig		e bree	ze this	uncern		- capes		- Court						
		3	persis after l			e bree	ze this			- capes								
SM/TM NOTES		4	persis after l			e bree	ze this											
SM/TM NOTES		4	persis after l	last lig	ht.													
SM/TM NOTES NON MET CDM NOTES		4	persis after I RWY	last lig	ht.		UE WI											
		4	persis after l RWY	last lig	ht.													

Airservices	TAF YMML 200533Z 2006/2112 36012KT CAVOK BECMG 2014/2016 36018G32KT CAVOK FM202100 36025G40KT 9999 -SHRA NSC BECMG 2103/2105 33014KT 9999 -SHRA NSC FM210900 19010KT 9999 FEW012 BKN025 — INTER 2106/2112 5000 -SHRA BKN010																			
Autoked TAJ			email Cop	Y TO SUP	PORT	RMK FM201200 MOD TURB BLW 5000FT TILL 210600														
LATEST TAF	RECALCUL	ATE		CLEAR	DATA	<u>- 1</u>														
YMN	1L		Th	urs	sda	y, 2	y, 21 Sep 2017 - Run 1 - Final													
DATE/TIME		202000	202100	202200	202300	210000					TES FR 210600			210800			211100		21130	
BUSINESS RULES SU	MMARY BR RWY	34	34	34	34	34	34	34	34	34	27/34	27*	27*	27*	16/27*	16/27*	16/27*		-	
	Tallwind (Worst)	-31.6	-39.5	-39.5	-39.5	-39.5	-39.5	-39.5	-13.1	-13.1	-7.8	-7.8	-7.8	-7.8	-1.0	-1.0	-1.0			
	osswind (Worst) Approach Mode	5.0 VMC	6.3 VMC	6.3 VMC	6.3 VMC	6.3 VMC	6.3 VMC	6.3 VMC	6.3 VMC	6.3 VMC	11.6 LAHSO	11.5 VMC*	11.6 VMC*	11.6 VMC*	9.9 VMCB*	9.9 VMCB*	9.9 VMCB*		-	
	BR Rate	24	24	24	24	24	24	24	24	24	40	22	22	22	22	22	22			
RESET BELOW									_	CDMF					EXPA		ACT MET C			
Wind "True Significant Wind Spee	LOAD WINDS	360 30	360 30	360 32	360 38	360 38	360 38	360 35	360 32	340 30	330 25	310 18	280	260 15	250 15	240 15	220	220	220	
Antiolpated RWY		34	34	34	34	34	34	34	34	34	34	27/34				16/27		16/27		
Tallwind (Main RWY)		-29.6	-29.6	-31.6	-37.5	-37.5	-37.5	-34.6	-31.6	-29.4	-23.3	-14.6 10.6	-14.9	-0.3	-2.9	-5.4 14.0	-7.9	-6.6	-5.2	
Crosswind (Main RWY Tallwind (Cross RWY)		4.7	4.7	5.0	5.9	5.9	5.9	5.5	5.0	5.7	9.0	-13.6	-4.9	-14.6	-13.7	-12.4	9.1 -7.1 9.7	-5.9	-4.7	
Crosswind (Cross RW Anticipated Approach	ŋ	VMC	VMC	VMC	VMC	VMC	VMC	VMC	VMC	VMC	VMC		14.2	3.6	6.1	8.4	-		6.5	
						-				-				_			_		-	
MET CDM Initial Rate		24	24	24	24	24	24	24	24	24	24	30	30	27	25	25	23	23	23	
MET CDM Notes		1	1	1	1	1	1	1	1	1	2	2	283	384	3	3	5	5	5	
MET CDM X-Faotor	EXPORT PDF																			
MET CDM Final Rate	NOTIFY SM/TM	24	24	24	24	24	24	24	24	24	24	30	30	27	25	25	23	23	23	
								TCU S	SM/TM	FINAL A	ADJUST	MENT								
SM/TM Notes			1	1	1	1	1	1	1	1	1									
SM/TM X-Factor			-2	-2	-2	-2	-2	-2	-2	-2	-2			-		-	-		-	
Final Arrival Rates	NEXT	24	22	22	22	22	22	22	22	22	22	30	30	27	25	25	23	23	23	
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Non MET CDM Notes																				
DATE/TIME		202000	202100	202200	202300	210000	210100	210200	210300	210400	210600	210600	210700	210800	210900	211000	211100	211200	21130	
Previous Arrival Rates																				
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- 1. Case studies.
- 2. Comparison between TAF rates and MET CDM rates.
- 3. Achieved rates vs. forecast rates.
- 4. Number of GDP revisions low number fleet predictability.
- 5. Airborne holding vs. previous years.
- 6. Diversions MET CDM should reduce diversions.
- 7. Survey of customer satisfaction.





- 1. Fewer aircraft airborne during times of high impact weather due to MET CDM.
- 2. Airborne holding generally lower.
- 3. The timing for the recovery refined in the subsequent MET CDM runs.
- 4. Rates tables and business rules regularly reviewed and refined.
- 5. Reference cards capturing knowledge.
- 6. MET CDM processes being triggered by participants in anticipation of forecast changes/ changed impacts.