

FINAL INVESTIGATION REPORT



SERIOUS INCIDENT OF TCAS – RA REPORTED BY AIRBLUE FLIGHT ABQ 675, A321 AIRCRAFT REG. NO. AP-BMW ON 22ND FEBRUARY, 2018

SCOPE

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ABBREVIATIONS

Abbreviation	Full Form
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AAIB

ATC

BKIAP

CARs

CPA

ETA

FL

ft

h

ICAO

IOU

PAF

PCAA

RA

R/W

s

SL

TA

TCAS – RA

UTC

INTRODUCTION

SYNOPSIS

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SECTION 1 - FACTUAL INFORMATION

History of the Flight

Injuries to Persons

Damage to Aircraft

Other Damages

Personnel Information

Aircraft Information

Aircraft # 01	
Aircraft # 02	

Meteorological Information

VIS (km)	AWOS			Wind (kts)	Clouds (oktas)				Temp	QNh (hpa)	RH (%)	Date / Time
	RVR 1	RVR 2	Visibility (m)		Heap	Low	Med	High				
4	R 35 / P2000N	R17 / P2000N	8000	SE 04	-	FEW 040	SCT 100	BKN 180	19 / 09	1014 6/29.96	50	22/02/2018 10:00
5	R 35 / P2000N	R17 / P2000N	9000	NE 04	-	-	SCT 100	BKN 180	19 / 03	1014 6/29.96	50	22/02/2018 10:30
5	R 35 / P2000N	R17 / P2000N	9000	SW 04	-	-	FEW 100	BKN 180	20 / 09	1014 6/29.96	48	22/02/2018 11:00
5	R 35 / P2000N	R17 / P2000N	9000	NW 04	-	-	FEW 100	SCT 200	20 / 09	1014 6/29.96	48	22/02/2018 11:20
5	R 35 / P2000N	R17 / P2000N	5000	NE 04	-	-	FEW 100	FEW 100	20 / 09	1014 6/29.96	40	22/02/2018 12:30

Aids to Navigation

Communications

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Cherat APP	125.60 MHZ	H24	PAF. Primary Frequency.
ATIS	ATIS	126.70 MHZ	H24	-
G/A/G	Radio	2923.00 KHZ	-	-
G/A/G	Radio	5601.00 KHZ	-	-
GCA		118.30 MHZ	H24	-
TWR	Peshawar Tower	118.40 MHZ	H24	Standby Frequency
TWR	Peshawar Tower	121.50 MHZ	H24	-
TWR	Peshawar Tower	122.90 MHZ	H24	Primary Frequency.
TWR	Peshawar Tower	243.00 MHZ	H24	-
TWR	Peshawar Tower	121.80 MHZ	H24	-

Aerodrome Information

Designations	True bearing	Dimensions of	Strength	THR coordinates	THR elevation	Slope of
RWY NR		RWY (M)	(PCN) and surface of RWY and SWY		and highest elevation of TDZ of precision APP RWY	RWY/SWY
1	2	3	4	5	6	7
17	176.00°	2743 x 46	68/F/C/X/U Bitumen See remarks below	340021.62N 0713048.76E	THR 357.00 M / 1171.26 FT	0.500%
35	356.00°	2743 x 46	68/F/C/X/U Bitumen See remarks below	335853.16N 0713056.35E	THR 369.00 M / 1210.63 FT	0.500%

Designations RWY NR	TORA	ASDA	TODA	LDA	Remarks
1	2	3	4	5	6
17	2743	2865	3017	2743	-
35	2743	2743	3017	2743	-

Flight Recorders

Wreckage and Impact Information

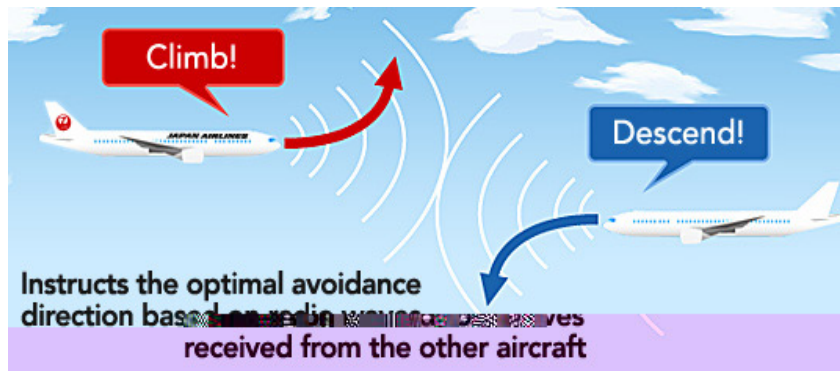
Medical and Pathological Information

Fire

Survival Aspects

Test & Research

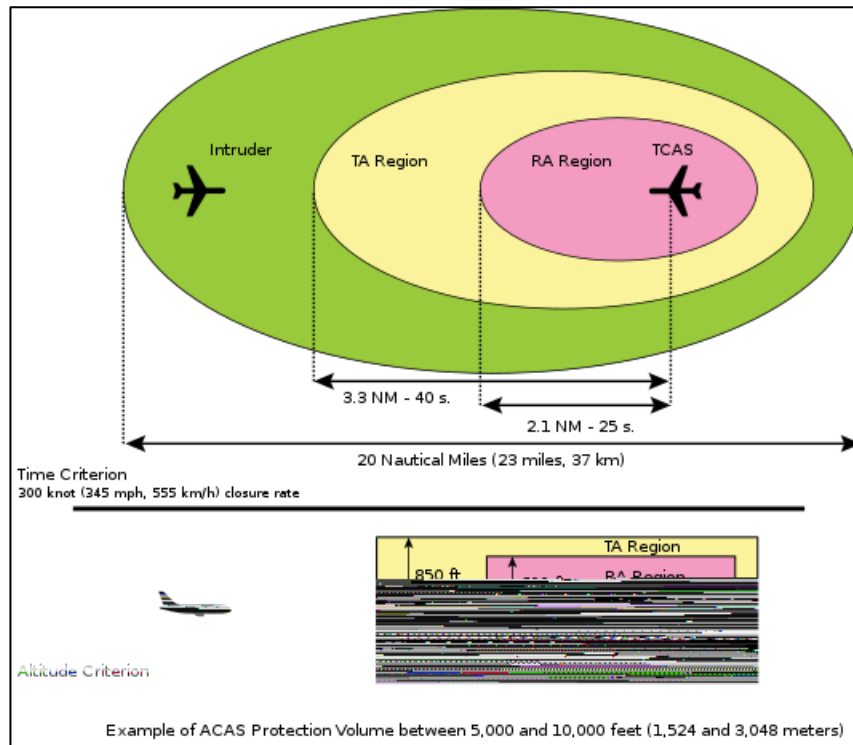
Airborne Collision Avoidance System (ACAS) –



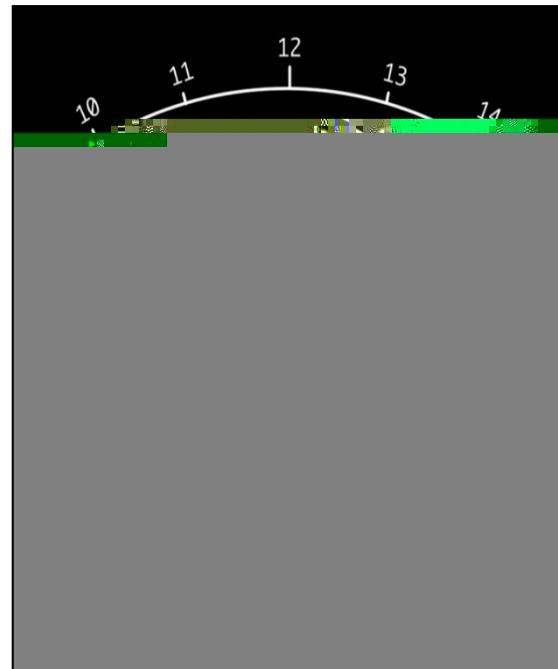
Traffic Advisories (TAs) –

Resolution Advisories (RAs) –

Warning Times –



Traffic Display Symbology –



Organizational and Management Information

Additional Information

Useful & Effective Investigation Techniques

SECTION 2 – ANALYSIS

General

SECTION 3 – CONCLUSIONS

Findings

Causes / Contributing Factors

Cause

Contributing Factors

Aviation Occurrence Category (ADREP Taxonomy)

“Mid-Air Collision (MAC): *Traffic Collision Avoidance System (TCAS) / Airborne Collision Avoidance System (ACAS) alerts, loss of separation as well as near collisions or collisions between aircraft in flight”.*

SECTION 4 – SAFETY RECOMMENDATIONS

Safety Recommendations

PCAA