

International Civil Aviation Organization

The Twentieth Meeting of the Regional Airspace Safety Monitoring Advisory Group (RASMAG/21)

Bangkok, Thailand, 14-17 June 2016

Agenda Item 5: Airspace Safety Monitoring Activities/Requirements in the Asia/Pacific Region

LATEST MONITORING RESULTS FROM THE SETOUCHI HMU

(Presented by JASMA)

SUMMARY

This paper presents a summary of the latest height monitoring results obtained from Setouchi height monitoring unit (HMU).

1. INTRODUCTION

1.1 This paper presents a summary of the latest height monitoring results obtained from Setouchi HMU for the period between 16 March 2015 and 15 March 2016. JASMA conducts careful verification including monitoring flight information over Setouchi HMU to updating the RMA's (KSN) Knowledge Sharing Network website and Japan Airspace Safety Monitoring Agency (JASMA) website. JASMA uploaded monthly the monitoring date, registration number and Mode S code which were successful height monitored results in KSN and JASMA website. It should be noted that the period of data of each months are from day 16th to 15th, which is as same as the period of upload data to the KSN site.

2. DISCUSSION

2.1 **Figure 1** shows the proportion of the major monitoring groups monitored by Setouchi HMU between 16 March 2015 and 15 March 2016. The top eleven of the monitoring groups are B737NX, A320, B772, B767, B787, E170-190, A330, B773, B744-10, B737CL and B748 in this period. The proportion of B737NX, A320, B772 and B767 are continuously large amount as previous report.

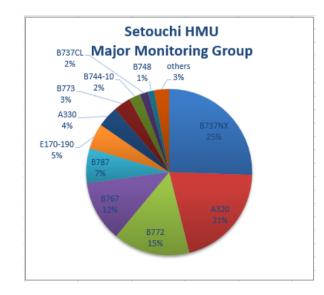


Figure 1: The proportion of the major monitoring group by Setouchi HMU

2.2 **Table 1** shows the mean ASE of top 11 monitoring groups for the same period. **Figure 2** draws focus on the mean ASE of each monitoring group and made it a bar graph and a monthly line graph shown in **Figure 3**. The details of each monitoring groups are shown in **Appendix A** in descending order of ASE.

Monitoring Group	count	Mean(ft)			ASE+3SD(ft)
		TVE	AAD	ASE	ASE+SSD(II)
A320	29475	62.5	1.4	61.1	246.8
A330	5832	52.4	0.1	52.3	204.4
B787	9668	39.8	-0.4	40.2	198.3
E170-190	7144	39.1	-0.2	39.3	260.0
B772	21435	25.1	-0.2	25.2	193.8
B773	4839	14.6	0.0	14.6	177.4
B737NX	36583	6.0	-0.2	6.1	176.1
B748	1727	1.2	-0.1	1.2	201.4
B767	16981	-50.1	0.1	-50.2	244.1
B737CL	2257	-51.1	-0.3	-50.8	288.0
B744-10	3211	-70.8	0.0	-70.8	266.6

Table 1: Result of recent height monitoring per monitoring groups

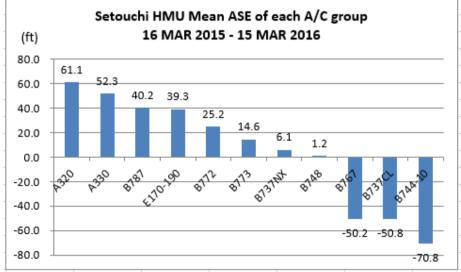


Figure 2: Mean ASE of each Monitoring Group

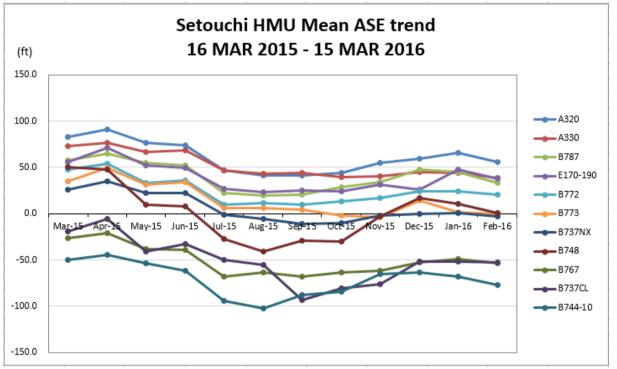


Figure 3: Monthly Mean ASE of each Monitoring Group

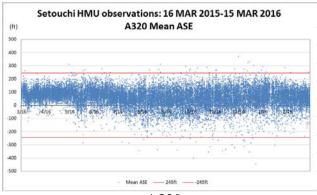
3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) note the information contained in this paper; and

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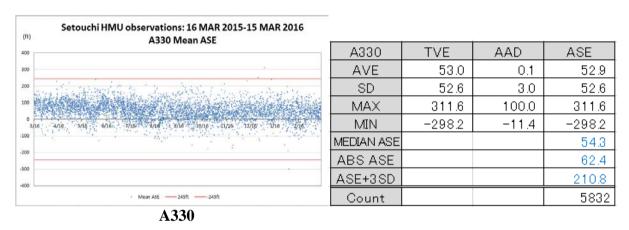
Appendix A

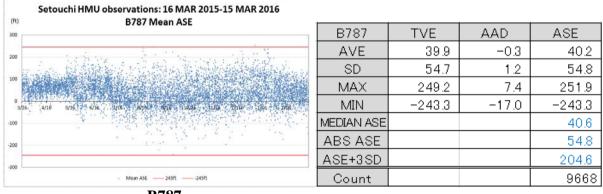
TVE, AAD and ASE trend of each aircraft type

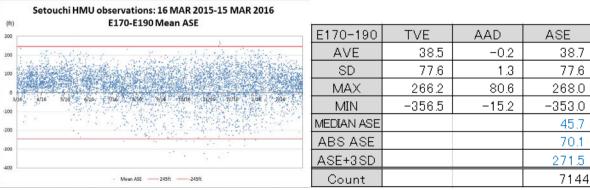


A320	TVE	AAD	ASE
AVE	62.1	1.4	60.7
SD	65.4	5.4	65.1
MAX	367.6	99.7	370.7
MIN	-443.7	-37.7	-443.7
MEDIAN ASE			65.2
ABS ASE			75.1
ASE+3SD			256.0
Count			29475

A320







E170-190

ASE

24.6

58.2

389.6

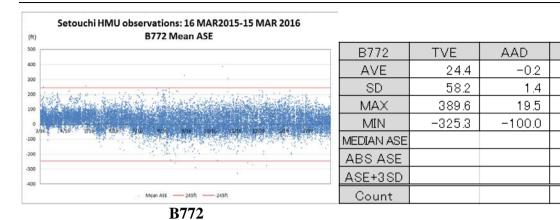
24.2

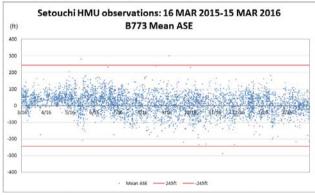
50.2

199.4

21435

-325.3





B773	TVE	AAD	ASE
AVE	15.2	0.0	15.3
SD	57.3	0.7	57.3
MAX	299.8	14.0	299.6
MIN	-286.6	-7.8	-286.6
MEDIAN ASE			19.5
ABS ASE			47.3
ASE+3SD			187.1
Count			4839

AAD

-0.2

2.0

100.0

-21.2

ASE

6.3

57.8

6.4

44.1

179.7

36583

347.9

-441.7

TVE

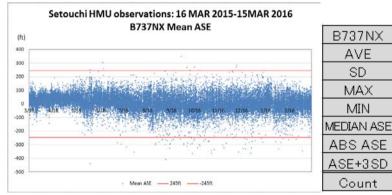
6.1

57.8

347.9

-443.5

B773



(ft)

300

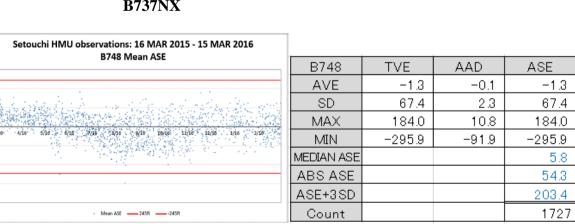
200

100

-100

-200

-300



B737NX

AVE

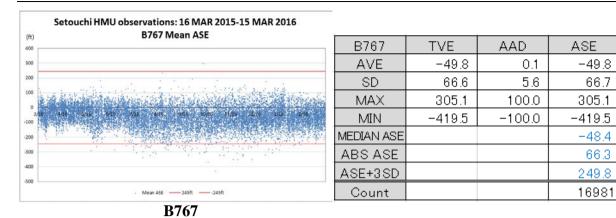
SD

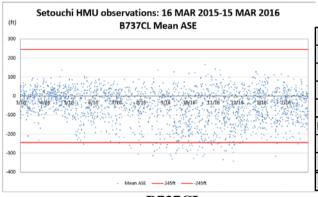
MAX

MIN

Count

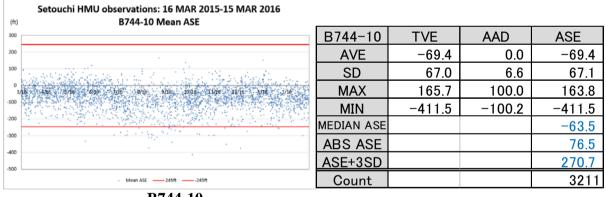
B748





B737CL	TVE	AAD	ASE
AVE	-51.0	-0.4	-50.7
SD	84.0	4.4	83.9
MAX	164.8	63.6	164.8
MIN	-343.8	-102.0	-342.1
MEDIAN ASE			-36.0
ABS ASE			72.4
ASE+3SD			302.5
Count			2257

B737CL



B744-10