

**APPENDIX 7. TECHNICAL SPECIFICATIONS  
RELATED TO METEOROLOGICAL INFORMATION CONTAINING ADVISORIES,  
ALERTS, AND WARNINGS (SIGMET, AIRMET) AND NOTICES**

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*Editorial Note.— Insert new Table A7-1 as follows:*

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**Table A7-1. Template for Volcano Observatory Notice for Aviation (VONA)**

Key: M = inclusion mandatory, part of every message;  
C = inclusion conditional, included whenever applicable.

*Note 1.— The ranges and resolutions for the numerical elements included in VONA are shown in Table A7-8 of this appendix.*

*Note 2.— The explanations for the abbreviations can be found in the Procedures for Air Navigation Services — ICAO Abbreviations and Codes (PANS-ABC, Doc 8400).*

*Note 3.— Inclusion of a colon after each element heading is mandatory.*

*Note 4.— The numbers 1 to 20 are included only for clarity and are not part of the notice, as shown in the examples.*

Element	Detailed Content	Template(s)	Examples
1	Identification of the type of message (M)	Type of message VONA	VONA
2	Status indicator (C) <sup>1</sup>	Indicator of test or exercise STATUS: TEST or EXER	STATUS: TEST EXER
3	Time of origin (M)	Year, month, day and time in UTC DTG: Nnnnnnnn/nnnnZ	DTG: 20210223/0130Z
4	Name of volcano (M)	Name and IAVCEI <sup>2</sup> number of volcano VOLCANO: nnnnnnnnnnnnnnnnn [nnnnn] or UNKNOWN or UNNAMED	VOLCANO: KARYMSKY 300130 UNKNOWN UNNAMED
5	Location of volcano or volcanic ash source (M)	Location in degrees and minutes of volcano or specific vent (if known) or coordinates <sup>3</sup> in degrees and minutes of field of volcanic ash. PSN: Nnnnn or Snnnn Wnnnnn or Ennnnn or Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] – Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn][ – Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] – Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] – Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] – Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]	PSN: N5403 E15927 UNKNOWN N5400 E15930 – N5400 E16100 – N5300 E15945

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			or UNKNOWN	
6	State or Region (M)	State, or region if ash is not reported over a State	AREA: nnnnnnnnnnnnnnn	AREA: RUSSIA  NEW ZEALAND TO FIJI
7	Source elevation (M)	Source elevation in m (or ft) (elevation of the vent or the average height of volcanic ash field for re-suspended volcanic ash)	SOURCE ELEV: nnnnM (or nnnnnFT) AMSL (or BLW MSL <sup>4</sup> ) or UNKNOWN	SOURCE ELEV: 1536M AMSL  50FT BLW MSL  UNKNOWN
8	Notice number (M)	Year in full and message number (separate sequence for each volcano)	NOTICE NR: nnnn/[n][n][n]	NOTICE NR: 2021/4
9	Current colour code (M)	Current aviation colour code	CURRENT COLOUR CODE: GREEN or YELLOW or ORANGE or RED or UNASSIGNED	CURRENT COLOUR CODE: GREEN
10	Previous colour code (M)	Previous aviation colour code	PREVIOUS COLOUR CODE: GREEN or YELLOW or ORANGE or RED or UNASSIGNED	PREVIOUS COLOUR CODE: YELLOW  UNASSIGNED
11	Name SVO (M)	Name of SVO	SVO: Free text up to 256 characters	SVO: KVERT  ALASKA VOLCANO OBSERVATORY
12	Activity status (M)	Description of current activity status of the volcano. <sup>5</sup>	ACT STS: ERUPTION OCCURRED or ERUPTION ONGOING or HEIGHTENED UNREST or DECREASED ACTIVITY or LAST VA EMISSION nnnnnnnn/nnnnZ or RE-SUSPENDED VA or UNKNOWN or NIL	ACT STS: ERUPTION ONGOING  RE-SUSPENDED VA
13	Onset time (M)	Time of onset (UTC) of eruptive activity or NIL for re-suspended volcanic ash.	ONSET: nnnnnnnn/nnnnZ or UNKNOWN or NIL	ONSET: 20190923/0015Z  NIL
14	Duration (M)	Duration of volcanic ash producing eruption (in minutes or hours or days) or indication that eruption is continuing or NIL if no eruption has occurred.	DUR: [n]n MIN or [n]n HR or [n][n]n DAY[S] or ONGOING EPISODIC or ONGOING CONS or UNKNOWN or NIL	DUR: 1 HR  45 MIN  ONGOING EPISODIC  NIL
15	Volcanic ash cloud height (M)	Estimate of volcanic ash cloud height in km (or ft) above source/vent or AMSL.	VA CLD HGT: [ABV <sup>6</sup> ] [n][n]nnnFT (or [ABV <sup>6</sup> ] [n][n]nnnM or [ABV <sup>6</sup> ] [n]nKM) ABV SOURCE or AMSL or UNKNOWN	VA CLD HGT: 15KM AMSL  ABV 9000FT AMSL

			or NO VA CLD PRODUCED	10000FT ABV SOURCE
16	Height source (M)	Source of height data (e.g. ground observer, air-report, radar, LIDAR, satellite, webcam, etc.)	HGT SOURCE: Free text up to 32 characters or NO VA CLD PRODUCED	HGT SOURCE: GND OBSERVER  LIDAR
17	Movement (M)	Direction of the movement of the observed cloud	MOV: N or NE or E or SE or S or SW or W or NW or VERTICAL or OBSCD or UNKNOWN or NO VA CLD PRODUCED	MOV: SW  VERTICAL
18	Contacts (M)	SVO contact details	CTC: Free text up to 128 characters	CTC: DUTY VOLCANOLOGIST, PTEL +123-456-789 EMAIL, DUTY.VOLCANOLOGIST[AT]VOLCANO.COM WWW.VOLCANO.COM
19	Remarks (M)	Remarks, as necessary <sup>7</sup>	RMK: Free text up to 256 characters or NIL	RMK: REP FM MATAFOUNA ISLAND RESORT ALSO REP AT 20210223/0100Z THAT THEY CAN OBS W STEAM CLD EXTD VER FM THE METIS SHOAL SITE. PHOTO REP OF THE METIS SHOAL WILL BE SENT IN FM THE MATAFOUNA ISLAND RESORT LATER TODAY.
20	Next Notice (M)	Indication of the issuance of next VONA	NXT NOTICE: A NEW VONA WILL BE ISSUED IF COND CHANGE SIGNIFICANTLY OR IF THE COLOUR CODE CHANGES or WILL BE ISSUED BY nnnnnnnn/nnnnZ	NXT NOTICE: WILL BE ISSUED BY 20210223/0730Z  A NEW VONA WILL BE ISSUED IF COND CHANGE SIGNIFICANTLY OR IF THE COLOUR CODE CHANGES

*Notes.—*

1. To be used only when a test (TEST) or an exercise (EXER) is taking place. When the word “TEST” or the abbreviation “EXER” is included, the VONA may contain information that should not be used operationally or will otherwise end immediately after the word “TEST”.
2. International Association of Volcanology and Chemistry of the Earth’s Interior (IAVCEI).
3. When disseminated in abbreviated plain language in accordance with 6.1.5, the number of coordinates are to be kept to a minimum and should not normally exceed seven.
4. Used only for undersea volcanoes.
5. Eruptive or pre-eruptive activity takes precedence over volcanic ash re-suspension. Re-suspended volcanic ash can be addressed in the RMK field.
6. Used when top of volcanic ash cloud is obscured by meteorological cloud.
7. Such as colour and shape of volcanic ash cloud, re-suspended volcanic ash, heightened volcanic unrest, monitoring data, observatory actions, volcano’s previous activity, expected outlook.