

SECTION E

ENCODE

METEOROLOGY

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
CLOUD	<p>What is the amount, type and height above official aerodrome elevation of the base of the cloud (at... (place))?</p>	<p>The amount, type and height above official aerodrome elevation of the base of the cloud at...(place) at...hours is:</p> <p>...eights (...type) at ...(figures and units)*</p> <p>height above official aerodrome elevation.</p>	QBB
	<p>* Note: The cloud amount, type (if reported and vertical distance information is reported in sequence if several cloud layers are present, the order of reporting being from low to high levels in accordance with the following cloud layer specifications:</p> <p>a) the lowest individual layer of any amount; b) the next higher individual layer the amount of which is three-eighths or more (to the nearest eighth); c) the next higher individual layer the amount of which is five-eighths or more (to the nearest eighth).</p> <p>Example: - QBB CYUL 1300 2 300 FT 3 1500 FT 6 9000 FT -</p>		
	<p>What is the amount, type and height above ...(datum) of the top of the cloud (at... (position or zone))?</p>	<p>At...hours at...(position or zone) the top of the cloud is: amount...eighths (...type) at...(figures and units) height above...(datum).</p>	QBJ
	<p>What is the amount, the type and the height above...(datum) of the base of the cloud at... (place, position or zone)?</p>	<p>At...(place, position or zone) the base of the cloud is...eighths...type at...(figures and units) height above...(datum). Note: If several cloud layers or masses are present, the lowest is reported first.</p>	QFC

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
CLOUD (Cont'd)	Report the vertical distribution of cloud (at...(position or zone)) as observed from your aircraft.	The vertical distribution of cloud as observed from my aircraft at...hours at ... (position or zone) is: lowest layer observed*... eighths (...type) with base of...(figures and units) and tops of...(figures and units) (*and similarly in sequence for each of the layers observed.) height above... (datum). Example: = QMI 1400 11 2 CU 1000 FT 2500 FT 6 SC 6000 FT 10000 FT 5 AC 13000 FT 14000 FT ALT-	QMI
CONDITIONS	Report meteorological conditions as observed from your aircraft (at... (position or zone)) (at...hours).	The meteorological conditions as observed from my aircraft at...(position or zone) at...hours at... (figures and units) height above...(datum) are... Note: The information may be given in AIREP, or Q Code form. When given in Q Code, the following sequence of Q signal answer (or advice) forms is used: QMX, QNY, QAO, QDF, QMI, QFT and QNI.	QBC
	Please report the present meteorological landing conditions (at...(place)).	The present meteorological landing conditions at... (place) are... Note: When given in Q Code the information is sent in the following sequence: QAN, QBA, QNY, QBB, QNH and/or QFE and, if necessary, QMU, QNT, QBJ. It is not normally necessary to precede the QAN, QBA, QNY and QBB information by these Q signals but this may be done if considered desirable.	QFY
DELIVERY		If more than one tropical wind warning message in this sequence is awaiting transmission, transmit highest serial number first. (Sequence/serial is understood to include tropical warning name or number and consecutive warning number).	ZPU

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
DELIVERY (Cont'd)		<p>If the earlier wind warnings identified by DTG(s) following this signal are awaiting transmission, file those warnings without further transmission.</p> <p>This message canceled at time indicated. File without further transmission.</p>	ZPV ZPW

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
FORECAST	What is the meteorological forecast for...(flight, route, section of route or zone) for the period...hours until...hours?	The meteorological forecast for...(flight, route, section of route or zone) for the period...hours until...hours is... Note: When the forecast is given in Q Code the following sequence of Q signal answer (or advice) forms is to be given: QAO, QMX, QMI, QNY, QBA, QMW, QFT and QNI.	QFA
	What is the aerodrome meteorological forecast for...(place) for the period...hours until...hours?	The aerodrome meteorological forecast for...(place) for the period...hours until...hours is... Note: When given in Q Code the following sequence of Q signal answer (or advice) forms is to be used: QAN, QBA, QNY, QBB and, if necessary, QMU, QNT and QBJ.	QFZ
	Have you any amendments to the flight forecast in respect of section of route yet to be traversed?	The following amendment(s) should be made to the flight forecast...(If no amendments, signal QMZ NIL).	QMZ
	Can you give me in the following order information concerning: the direction in degrees TRUE and speed of the surface wind; visibility; present weather; and amount, type and height of base of cloud above surface elevation... (place of observation)?	Here is the information requested:...(the units used for speed and distances should be indicated).	QUB
ICE	Between what heights above...(datum) has ice formation been observed (at... (position or zone))?	Ice formation has been observed at...(position or zone) in the type of...and with an accretion rate of...between... (figures and units) and... (figures and units) heights above...(datum).	QFT

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
OBSERVATION	What is the latest available meteorological observation for...(place)?	<p>Meteorological observation made at...(place) at... hours was as follows... Note: The information may be given in Q Code form or the AERO form of the international meteorological figure code. When in Q Code, the information is to be given in the following sequence of Q signal answer (or advice) forms: QAN, QBA, QNY, QBB, QNH and/or QFE and, if necessary, QMU, QNT and QBJ. It is not normally necessary to precede the QAN, QBA, QNY and QBB information by these Q signals but this may be done if considered desirable. When in the AERO form of international meteorological figure code, the abbreviation AERO is to precede the information.</p>	QAM
PRESENT WEATHER	What is the present weather and the intensity thereof at ...(place, position or zone)?	<p>The present weather and intensity thereof at...(place, position or zone) at...hours is...(See Notes a) and b)). Notes: a) When present weather information is transmitted by a ground station, the information shall be selected from the present weather table (Table III) in PANS-MET (Doc 7605/MET/526). If none of these conditions prevail the reply shall be QNY NIL. b) When present weather information is transmitted by an aircraft, the information shall be selected from Item 11, AIREP. If none of these conditions prevail the reply shall be QNY NIL or alternatively the appropriate answer (or advice) form of signals QBF, QBG, QBH, QBK, QBN or QBP. The alternative may also be given in addition to present weather conditions when one or more of the conditions listed in Item 11 prevail.</p>	QNY

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
PRESSURE	What is your D-Value at...(position)? or What is the D-Value at...(place or position) (at... hours) for the... millibar level?	My D-Value at...(position) at...(figures and units) height above the 1013.2 millibars datum is... (D-Value figures and units) ...* (specify plus or minus). or The D-Value at...(place or position) at...hours for the...millibar level is... (D-Value figures and units) ...* (specify plus or minus). *Note: When the true altitude (radio altitude) is greater than the pressure altitude PS (Plus) is used and when it is less MS (Minus) is used.	QDF
	(At...(place)) what is the present atmospheric pressure at official aerodrome elevation?	At...(place) the atmospheric pressure at official aerodrome elevation is (or was observed at...hours to be)...millibars.	QPF
	(At...(place)) what is the present atmospheric pressure converted to mean sea level in accordance with meteorological practice?	At...(place) the atmospheric pressure converted to mean sea level in accordance with meteorological practice is (or was determined at... hours to be)...millibars.	QTF
	What indication will my altimeter give on landing at...(place) at...hours, my sub-scale being set to 1013.2 millibars (29.92 inches)?	On landing at...(place) at...hours, with your sub-scale being set to 1013.2, millibars (29.92 inches), your altimeter will indicate...(figures and units).	QNE
	What should I set on the sub-scale of my altimeter so that the instrument would indicate my elevation if I were on the ground at your station?	If you set the sub-scale of your altimeter to read ...millibars (or hundredths of an inch*), the instrument would indicate your elevation if you were on the ground at my station at...hours. *Note: When the setting is given in hundredths of an inch the abbreviation "INS" is used to identify the units.	QNH

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
PRESSURE (Cont'd)	Will you give me the present barometric pressure at sea level? Aeronautical Note: Stations of the international aeronautical telecommunication service will interpret this signal as: What is the present atmospheric pressure at the present water level?	The present barometric pressure at sea level is...(units). Aeronautical Note: Stations of the international aeronautical telecommunication service will interpret this signal as: The present atmospheric pressure at the present water level at...(place or position) at...hours is...(figures and units).	QUH
RESPONSIBILITY	Will you accept control (or responsibility) of (for)...now (or at... hours)?	I will accept control (or responsibility) of (for)... now (or at...hours).	QDP
SEA	Can you tell me the condition of the sea observed at... (place or co-ordinates)?	The sea at...(place or co-ordinates) is...	QUK

Aeronautical Note: Stations of the international aeronautical telecommunication service will complete the answer, information or advice form by the use of a numbered alternative as given hereunder, selected according to the average wave height as obtained from the larger wellformed waves of the wave system being observed. If observed height coincides with one of the limits, report the lower numbered alternative, e.g. waves with a mean maximum height of 4 meters are to be reported as "5".

Number		Height	
		Meters	Feet (approx.)
0	Calm-glassy	0	0
1	Calm-rippled	0-0.1	0-1/3
2	Smooth wavelets	0.1-0.5	1/3-1 2/3
3	Slight	0.5-1.25	1 2/3-4
4	Moderate	1.25-2.5	4-8
5	Rough	2.5-4	8-13
6	Very rough	4-6	13-20
7	High	6-9	20-30
8	Very high	9-14	30-45
9	Phenomenal	Over 14	Over 45

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
SWELL	Can you tell me the swell observed at ... (place or co-ordinates)?	The swell at... (place or co-ordinates) is...	QUL

Aeronautical Note: Stations of the international aeronautical telecommunication service will complete the answer, information or advice form by the use of the following numbered alternatives:

Number	Length of Swell	Height
0	-	-
1	Short or average	Low
2	Long	Low
3	Short	Moderate
4	Average	Moderate
5	Long	Moderate
6	Short	Heavy
7	Average	Heavy
8	Long	Heavy
9	Confused	

Additionally, stations of the international aeronautical telecommunication service may indicate the direction of swell by the use of the appropriate cardinal or quadrantal point abbreviation N, NE, E, SE, etc. following the numbered alternative for indicating swell condition. The descriptions in the above numbered alternatives are as follows:

Length of Swell		
	Meters	Feet (approx.)
Short	= 0-100	0-300
Average	= 100-200	300-600
Long	= Over 200	Over 600
Height of Swell		
	Meters	Feet (approx.)
Low	= 0-2	0-7
Moderate	= 2-4	7-13
Heavy	= Over 4	Over 13

When there is no swell, the numbered alternative "0" is used; when the swell is such that the length and height of the swell waves cannot be determined, the numbered alternative "9" is used.

--	--

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
TEMPERATURE	At...(position or zone) what is (are) the height(s) above ...(datum) of the zero celsius isotherm(s)?	At...(position or zone) the zero celsius isotherm(s) is (are) at... (figures and units) height(s) above...(datum).	QMW
	What is the air temperature (at...(position or zone)) (at...hours) at the ...(figures and units) height above...(datum)?	At...(position or zone) at...hours the air temperature is...(degrees and units) at...(figures and units) height above...(datum). Note: Aircraft reporting QMX information will transmit the temperature figures as corrected for airspeed.	QMX
	What is the surface temperature at...(place) and what is the dew point temperature at that place?	The surface temperature at...(place) at...hours is...degrees and the dew point temperature at that time and place is...degrees.	QMU
TURBULENCE	Between what heights above...(datum) has turbulence been observed at...(position or zone)?	Turbulence has been observed at...(position or zone) with an intensity of...between...(figures and units) and...(figures and units) heights above...(datum).	QNI
VISIBILITY	What is the horizontal visibility at...(place)?	The horizontal visibility at...(place) at...hours is...(distance figures and units).	QBA
	How far, along the runway, from the approach end, can the observer at the runway threshold see the runway lights which will be in operation for my landing (at...(place))?	At...hours, the observer at the threshold of runway number...could see the runway lights in operation for your landing (at...(place)) for a distance of...(figures and units) from the approach end. Note: If the station enquired of is not equipped to make the special observation requested, the reply to QBT IM1 is given by the signal QNO.	QBT

ENCODE

KEY	QUESTION	ANSWER, ADVICE OR ORDER	SIGNAL
WEATHER CONTROLLED MESSAGE		This is a weather controlled message which is not to be transmitted in the clear over radio circuits.	ZIK
		Pass this message to the nearest (or...) weather central/control.	ZOI
WIND	What is the surface wind direction and speed at...(place)?	The surface wind direction and speed at...(place) at...hours is...(direction)...(speed figures and units). Note: Unless otherwise indicated in the question, answer (or advice), surface wind direction is given in degrees relative to MAGNETIC North.	QAN
	What is the wind direction in degrees TRUE and speed at...(position or zone/s) at each of the...(figures)...(units) levels above...(datum)?	The wind direction and speed at...(position or zone/s) at the following heights above...(datum) is: ...(vertical distance in figures and units) ...degrees TRUE...(speed in figures and units) ...(vertical distance in figures and units) ...degrees TRUE...(speed in figures and units).	QAO
	What is the maximum gust speed of the surface wind at...(place)?	The maximum gust speed of the surface wind at...(place) at...hours is...(speed figures and units).	QNT