

気象庁注:これらの図表は、実際に観測された放射線量等を反映したものではありません。

IAEAが仮定した条件に基づいて計算したものです。

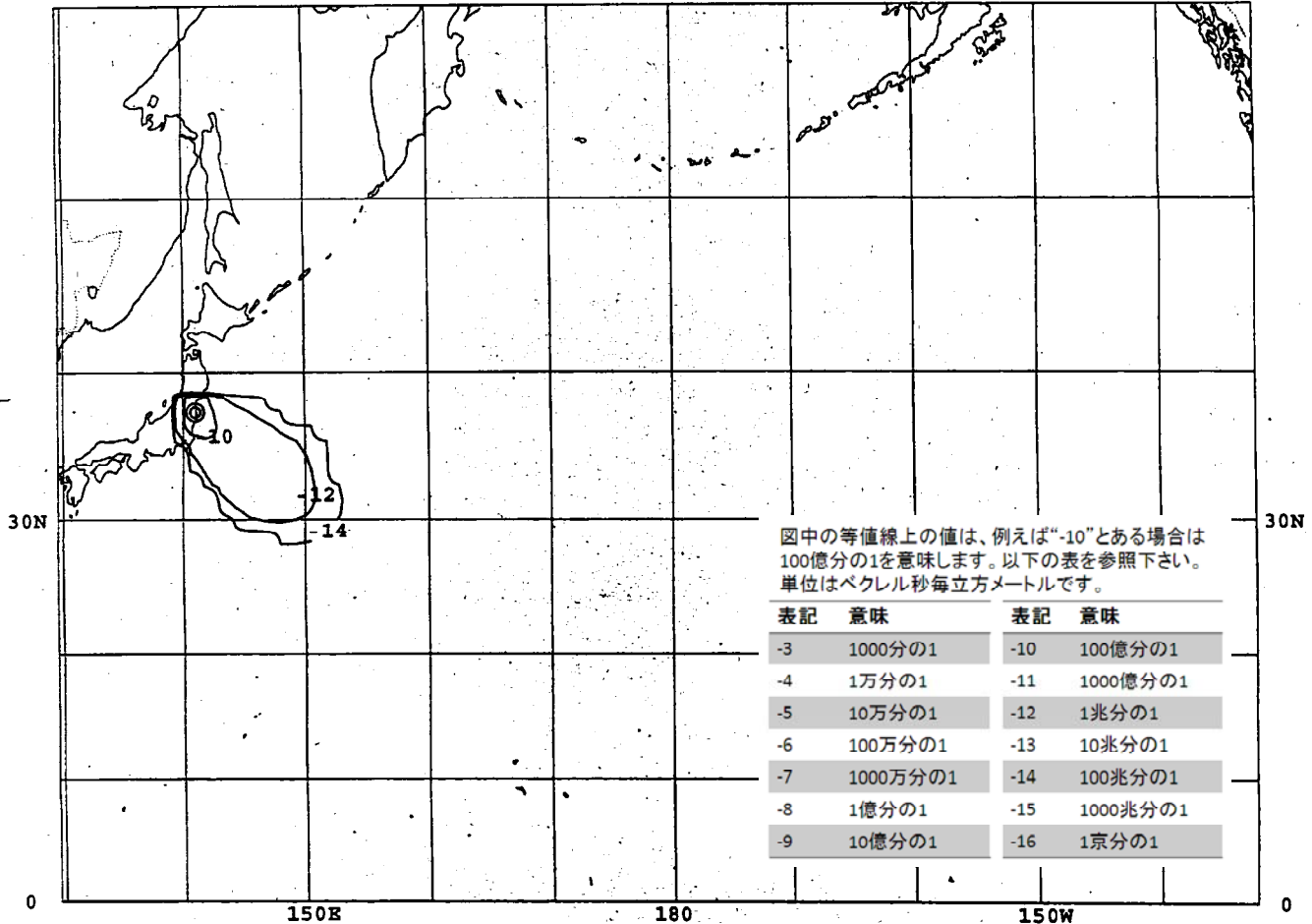
note from Japan Meteorological Agency:

The chart does not reflect the actual observation of radioactive substances. The calculations are based on the hypothetical condition by the International Atomic Energy Agency, or IAEA.

IAEA NOTIFIED EMERGENCY

### TIME INTEGRATED SURFACE - 500M LAYER CONCENTRATION

INTEGRATED FROM 01UTC 16 MAR 2011  
TO 00UTC 17 MAR 2011



(ISSUED 1043UTC 16 MAR 2011)

ASSUMED POLLUTANT RELEASED : CS-137  
START OF THE EMISSION : 0111UTC 16 MAR 2011  
END OF THE EMISSION : 1111UTC 16 MAR 2011  
◎ SOURCE LOCATION : LATITUDE 37.42N  
LONGITUDE 141.03E  
NAME FUKUSHIMA DAIICHI, JAPAN  
ASSUMED TOTAL EMISSION : 1 BECQUEREL  
UNIFORM RELEASE FROM 20- 300M ABOVE THE GROUND  
UNIT : (BQ.S/M3)  
MAXIMUM : 1.70E-9 (BQ.S/M3)  
CONTOURS: 1E-10, 1E-12, 1E-14

CONTOUR VALUES MAY CHANGE FROM CHART TO CHART

気象庁注:これらの図表は、実際に観測された放射線量等を反映したものではありません。

IAEAが仮定した条件に基づいて計算したものです。

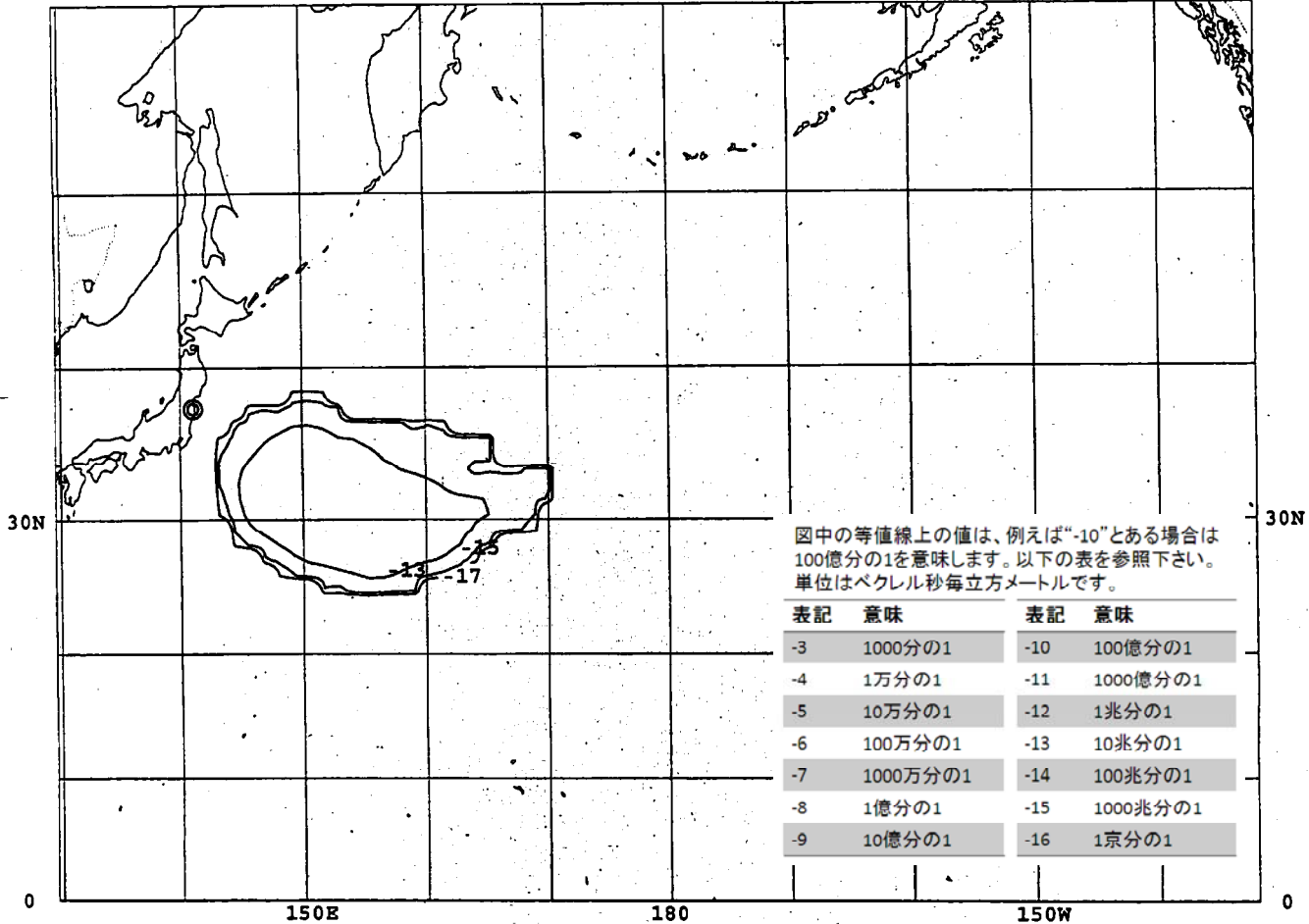
note from Japan Meteorological Agency:

The chart does not reflect the actual observation of radioactive substances. The calculations are based on the hypothetical condition by the International Atomic Energy Agency, or IAEA.

~~DELEGATED AUTHORITY REQUIRED~~  
 IAEA NOTIFIED EMERGENCY

## TIME INTEGRATED SURFACE - 500M LAYER CONCENTRATION

INTEGRATED FROM 00UTC 17 MAR 2011  
TO 00UTC 18 MAR 2011



(ISSUED 1043UTC 16 MAR 2011)

ASSUMED POLLUTANT RELEASED : CS-137  
START OF THE EMISSION : 0111UTC 16 MAR 2011  
END OF THE EMISSION : 1111UTC 16 MAR 2011  
© SOURCE LOCATION : LATITUDE 37.42N  
LONGITUDE 141.03E  
NAME FUKUSHIMA DAIICHI, JAPAN  
ASSUMED TOTAL EMISSION : 1 BECQUEREL  
UNIFORM RELEASE FROM 20- 300M ABOVE THE GROUND  
UNIT : (BQ.S/M3)  
MAXIMUM : 9.03E -12 (BQ.S/M3)  
CONTOURS: 1E-13 , 1E -15 , 1E -17

CONTOUR VALUES MAY CHANGE FROM CHART TO CHART

JAPAN METEOROLOGICAL AGENCY  
GLOBAL TRACER TRANSPORT MODEL  
CHART 3 / 5

気象庁注:これらの図表は、実際に観測された放射線量等を反映したものではありません。

IAEAが仮定した条件に基づいて計算したものです。

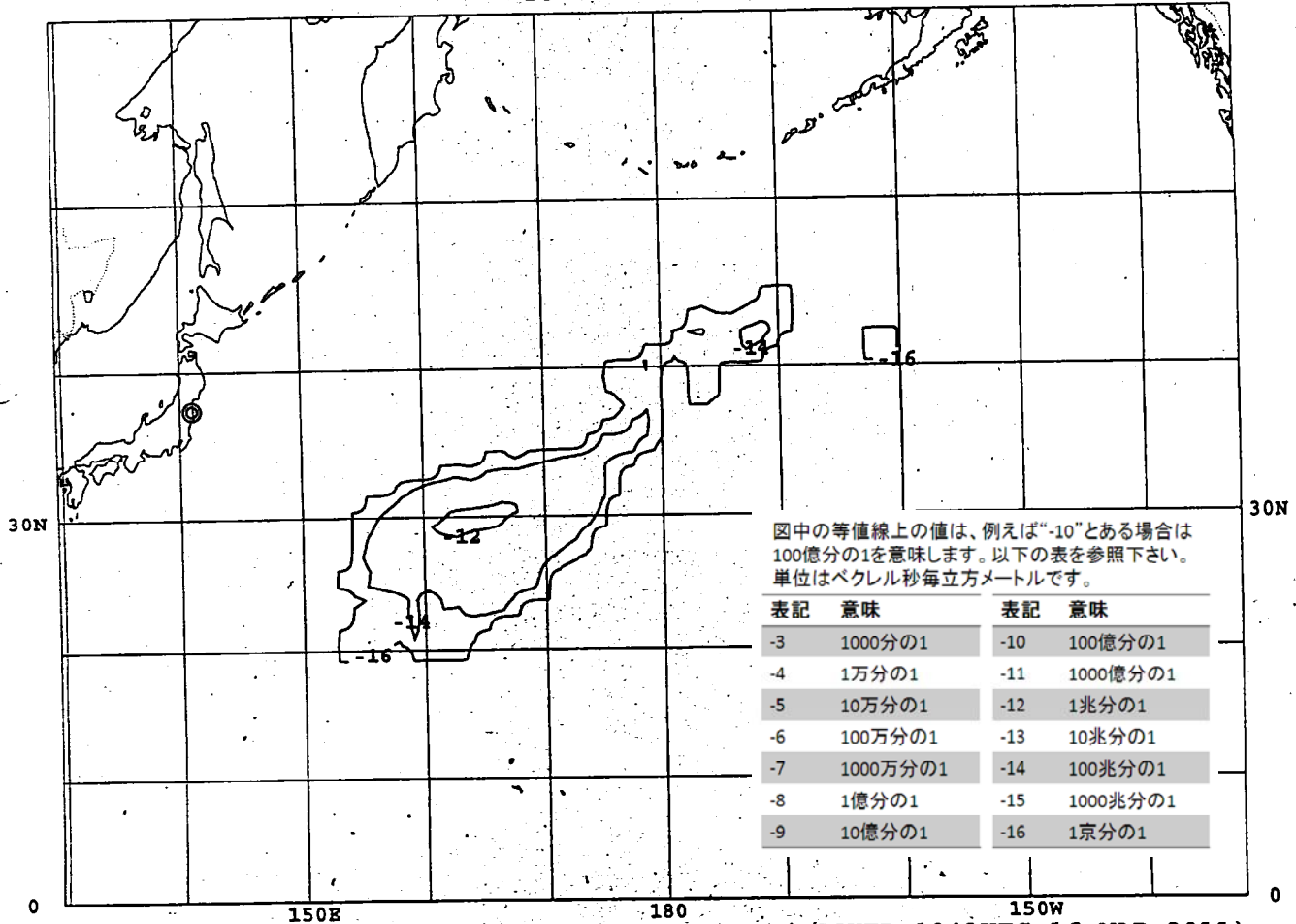
note from Japan Meteorological Agency:

The chart does not reflect the actual observation of radioactive substances. The calculations are based on the hypothetical condition by the International Atomic Energy Agency, or IAEA.

IAEA NOTIFIED EMERGENCY

## TIME INTEGRATED SURFACE - 500M LAYER CONCENTRATION

INTEGRATED FROM 00UTC 18 MAR 2011  
TO 00UTC 19 MAR 2011



(ISSUED 1043UTC 16 MAR 2011)

ASSUMED POLLUTANT RELEASED : CS-137  
START OF THE EMISSION : 0111UTC 16 MAR 2011  
END OF THE EMISSION : 1111UTC 16 MAR 2011  
◎ SOURCE LOCATION : LATITUDE 37.42N  
LONGITUDE 141.03E  
NAME FUKUSHIMA DAIICHI, JAPAN  
ASSUMED TOTAL EMISSION : 1 BECQUEREL  
UNIFORM RELEASE FROM 20- 300M ABOVE THE GROUND  
UNIT : (BQ.S/M3)  
MAXIMUM : 1.63E-12 (BQ.S/M3)  
CONTOURS: 1E-12, 1E-14, 1E-16

CONTOUR VALUES MAY CHANGE FROM CHART TO CHART

JAPAN METEOROLOGICAL AGENCY  
GLOBAL TRACER TRANSPORT MODEL  
CHART 4 / 5

気象庁注:これらの図表は、実際に観測された放射線量等を反映したものではありません。

IAEAが仮定した条件に基づいて計算したものです。

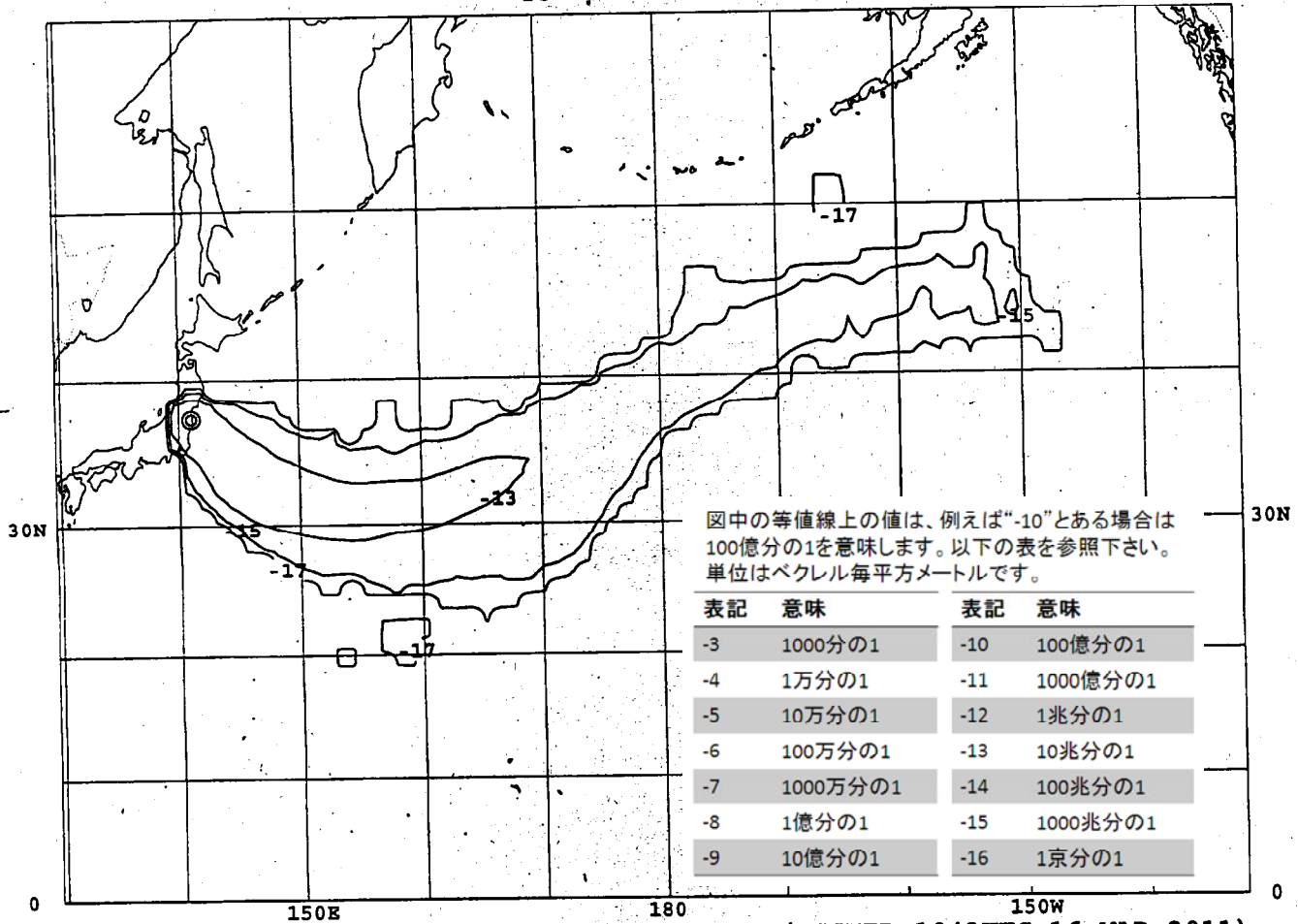
note from Japan Meteorological Agency:

The chart does not reflect the actual observation of radioactive substances. The calculations are based on the hypothetical condition by the International Atomic Energy Agency, or IAEA.

IAEA NOTIFIED EMERGENCY

## TOTAL (WET AND DRY) DEPOSITION

INTEGRATED FROM 01UTC 16 MAR 2011  
TO 00UTC 19 MAR 2011



(ISSUED 1043UTC 16 MAR 2011)

ASSUMED POLLUTANT RELEASED : CS-137  
START OF THE EMISSION : 0111UTC 16 MAR 2011  
END OF THE EMISSION : 1111UTC 16 MAR 2011  
◎ SOURCE LOCATION : LATITUDE 37.42N  
LONGITUDE 141.03E  
NAME FUKUSHIMA DAIICHI, JAPAN  
ASSUMED TOTAL EMISSION : 1 BECQUEREL  
UNIFORM RELEASE FROM 20- 300M ABOVE THE GROUND  
UNIT : (BQ/M2)  
MAXIMUM : 6.76E-12 (BQ/M2)  
CONTOURS: 1E-13 , 1E-15 , 1E-17

CONTOUR VALUES MAY CHANGE FROM CHART TO CHART

気象庁注:これらの図表は、実際に観測された放射線量等を反映したものではありません。

IAEAが仮定した条件に基づいて計算したものです。

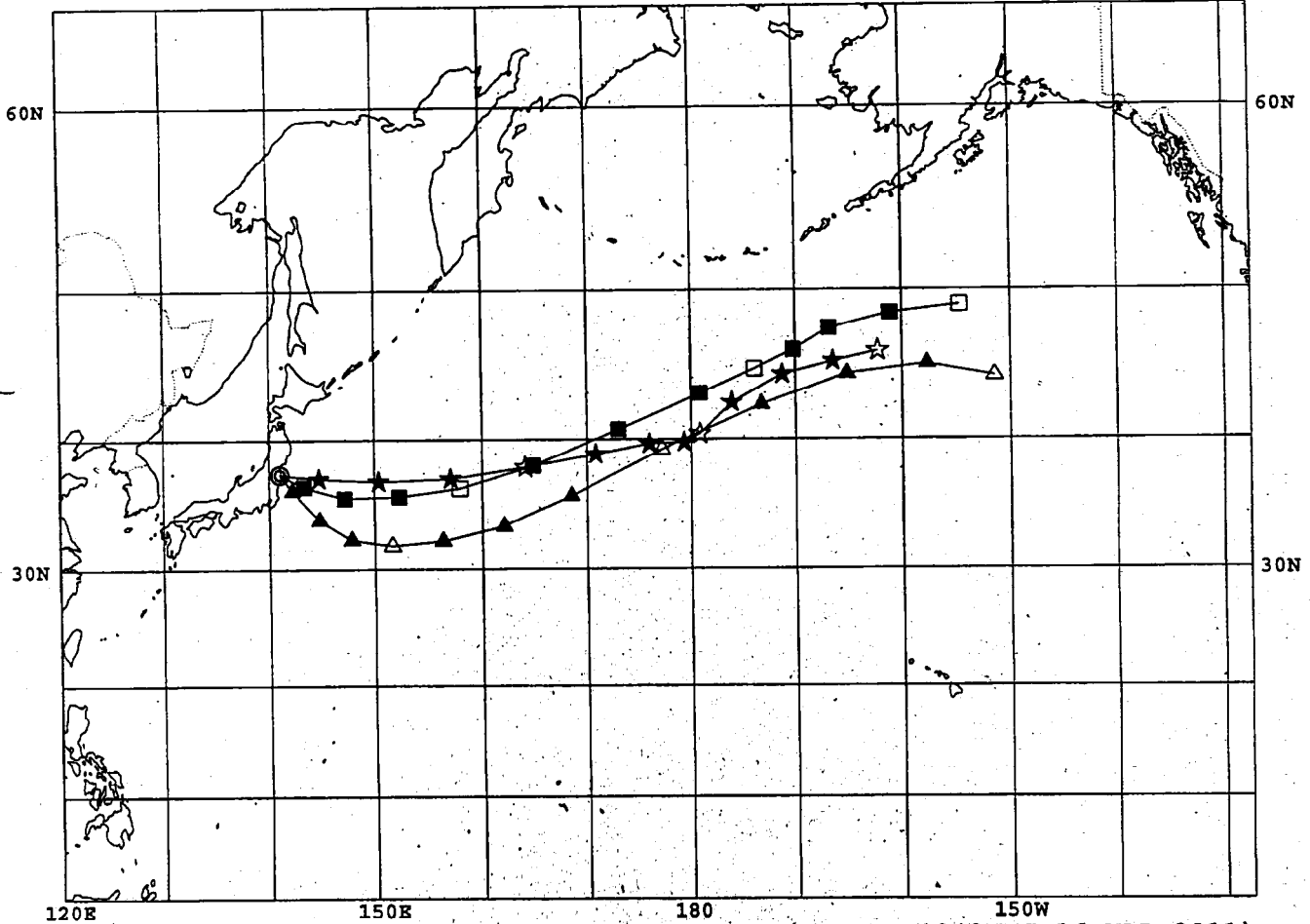
note from Japan Meteorological Agency:

The chart does not reflect the actual observation of radioactive substances. The calculations are based on the hypothetical condition by the International Atomic Energy Agency, or IAEA.

~~DELEGATED AUTHORITY REQUESTED~~  
 IAEA NOTIFIED EMERGENCY

### 3-D TRAJECTORY

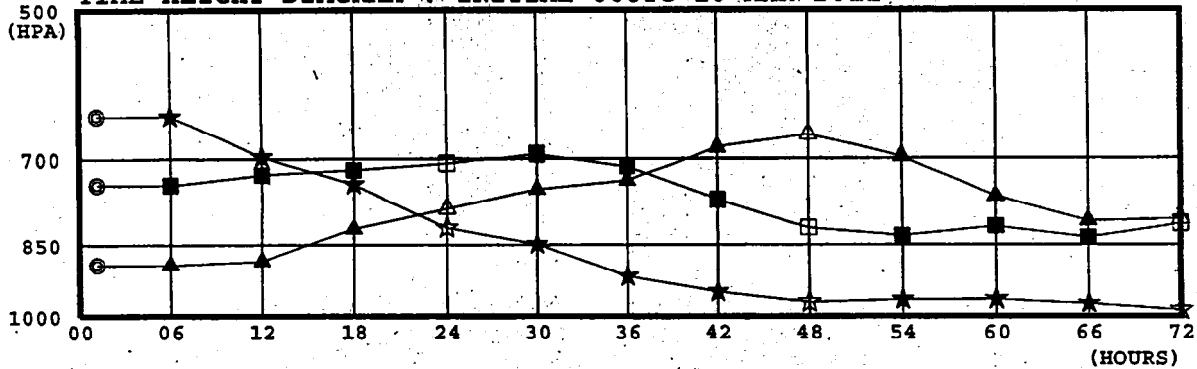
FROM 01UTC 16 MAR 2011 TO 00UTC 19 MAR 2011



(ISSUED 1043UTC 16 MAR 2011)

- ▲ INITIAL HEIGHT = 500M ABOVE THE SURFACE
- INITIAL HEIGHT = 1500M ABOVE THE SURFACE
- ★ INITIAL HEIGHT = 3000M ABOVE THE SURFACE
- MARKED WITH TIME INTERVAL OF 6 HOURS
- ◎ SOURCE LOCATION : LATITUDE 37.42N  
 LONGITUDE 141.03E  
 NAME FUKUSHIMA DAIICHI, JAPAN

TIME-HEIGHT DIAGRAM : INITIAL 00UTC 16 MAR 2011



## Environmental Emergency Response Request for WMO RSMC Support by IAEA

The IAEA sends the completed form by fax to all RSMCs and RTH Offenbach.  
At the same time the IAEA calls the 'Lead' RSMCs (selected on the form) to ensure receipt of this form.

Date/Time of Request: 2011-03-16/09:58(UTC)	
STATUS: <input checked="" type="checkbox"/> EMERGENCY <input type="checkbox"/> EXERCISE	
REQUESTED RSMCS : (Indicate the lead RSMCs by a checkmark below)	
<input type="checkbox"/> EXETER <input type="checkbox"/> TOULOUSE <input type="checkbox"/> MELBOURNE	<input type="checkbox"/> MONTREAL <input type="checkbox"/> WASHINGTON
<input checked="" type="checkbox"/> BEIJING <input checked="" type="checkbox"/> TOKYO <input checked="" type="checkbox"/> OBNINSK	<input checked="" type="checkbox"/> RTH Offenbach
SENDERS NAME : INTERNATIONAL ATOMIC ENERGY AGENCY	
COMMUNICATION DETAILS: Tel :	use to confirm receipt of request
Fax :	use to confirm receipt of request
Email :	use to confirm receipt of request
NAME OF RELEASE SITE AND COUNTRY	Fukushima Daiichi, Japan (facility and place)
GEOGRAPHICAL LOCATION OF RELEASE: (MUST BE COMPLETED)	37.4206 decimal degrees <input checked="" type="checkbox"/> N <input type="checkbox"/> S
	141.0329 decimal degrees <input checked="" type="checkbox"/> E <input type="checkbox"/> W

### DECLARED EMERGENCY CLASS:

NONE     other, specify: General Emergency

### ACTION REQUIRED :

NONE

GO ON STANDBY (request for products or for assistance on weather conditions is to be expected)

LEAD RSMCs ONLY: GENERATE PRODUCTS\* AND SEND TO IAEA ONLY

ALL RSMCs: GENERATE PRODUCTS\* AND DISTRIBUTE WITHIN THEIR REGION(S)

OTHER ACTION :

\* Appendix II-7, Manual on the Global Data Processing and Forecasting System, WMO No. 485

(essential accident information for model simulation - if not available, model will execute with standard default values)

**RELEASE CHARACTERISTICS:**

START OF RELEASE: Date/Time: 2011-03-16/01:11(UTC)

DURATION: 10 (hours) or END OF RELEASE: Date/Time: - - / : (UTC)

RADIONUCLIDE SPECIES: Cs-137

TOTAL RELEASE QUANTITY: 1 (Becquerel)

OR POLLUTANT RELEASE RATE: (Becquerel/hour)

EFFECTIVE HEIGHT OF RELEASE:  surface or

release height: base: 20 (m), top: 300 (m)

(helpful information for improved simulation)

SITE ELEVATION: 20 (m)

LOCAL METEOROLOGICAL CONDITIONS NEAR ACCIDENT:

(wind speed and direction/weather/cloudiness/precipitation, etc.)

OTHER INFORMATION:

smoke/vapour release from unit 3

(nature of accident, cause, fire explosion, controlled release, foreseeable development, normal activity, projected conditions, etc.)

(to be completed by RSMC)

DATE/TIME OF RECEIPT OF REQUEST ..... (UTC)

FOR LEAD RSMC(S) ONLY

DATE/TIME OF RETURN CONFIRMATION OF RECEIPT: ..... (UTC)

Note: All times in UTC