

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。

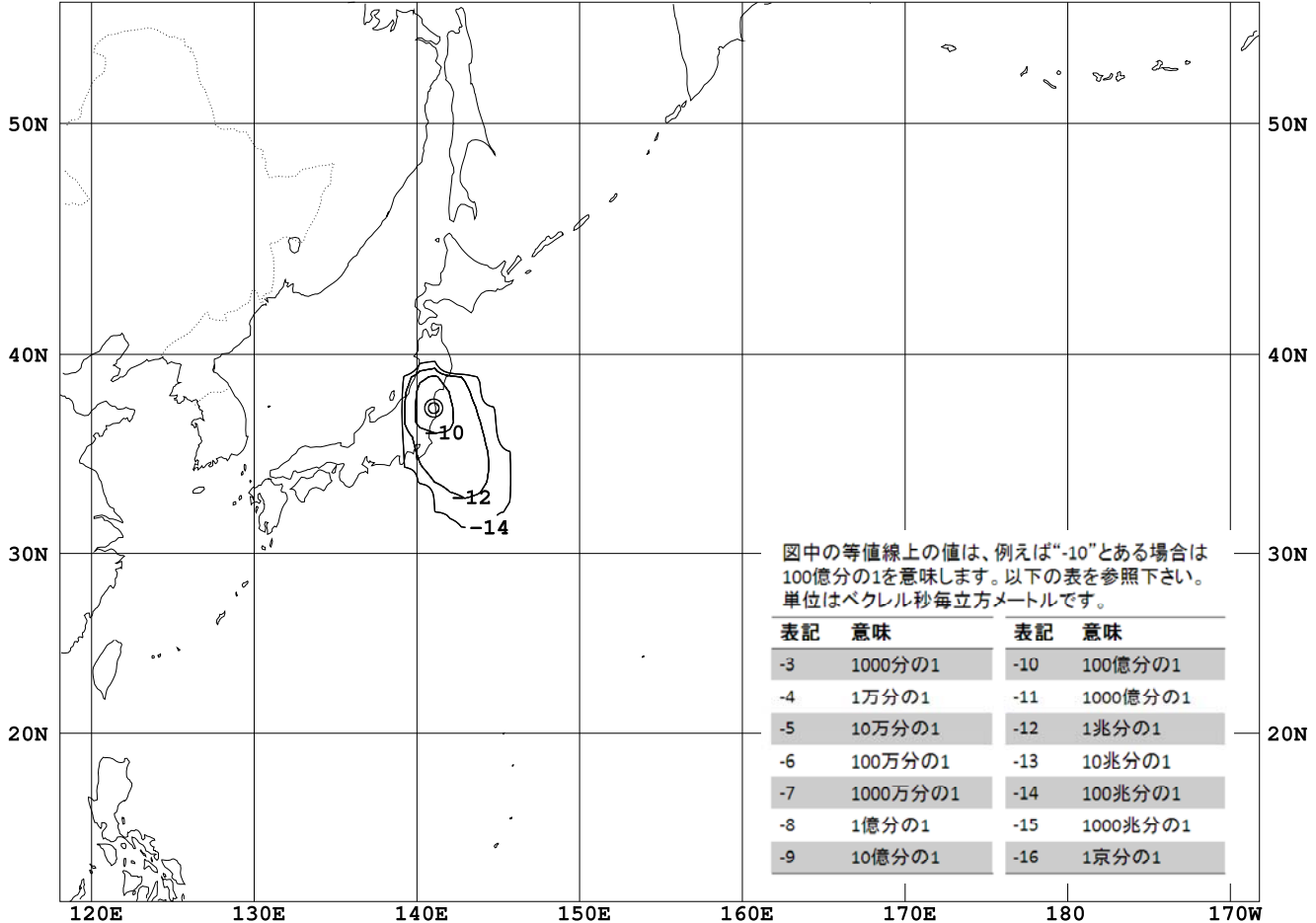
note from Japan Meteorological Agency:

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

## TIME INTEGRATED SURFACE - 500M LAYER CONCENTRATION

INTEGRATED FROM 02UTC 12 APR 2011  
TO 12UTC 12 APR 2011



(ISSUED 0239UTC 12 APR 2011)

ASSUMED POLLUTANT RELEASED : I -131  
START OF THE EMISSION : 0200UTC 12 APR 2011  
END OF THE EMISSION : 0200UTC 13 APR 2011  
◎ SOURCE LOCATION : LATITUDE 37.42N  
LONGITUDE 141.03E  
NAME FUKUSHIMA DAIICHI, JAPAN  
ASSUMED TOTAL EMISSION : 1 BECQUEREL  
UNIFORM RELEASE FROM 20- 500M ABOVE THE GROUND  
UNIT : (BQ.S/M3)  
MAXIMUM : 3.18E-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。

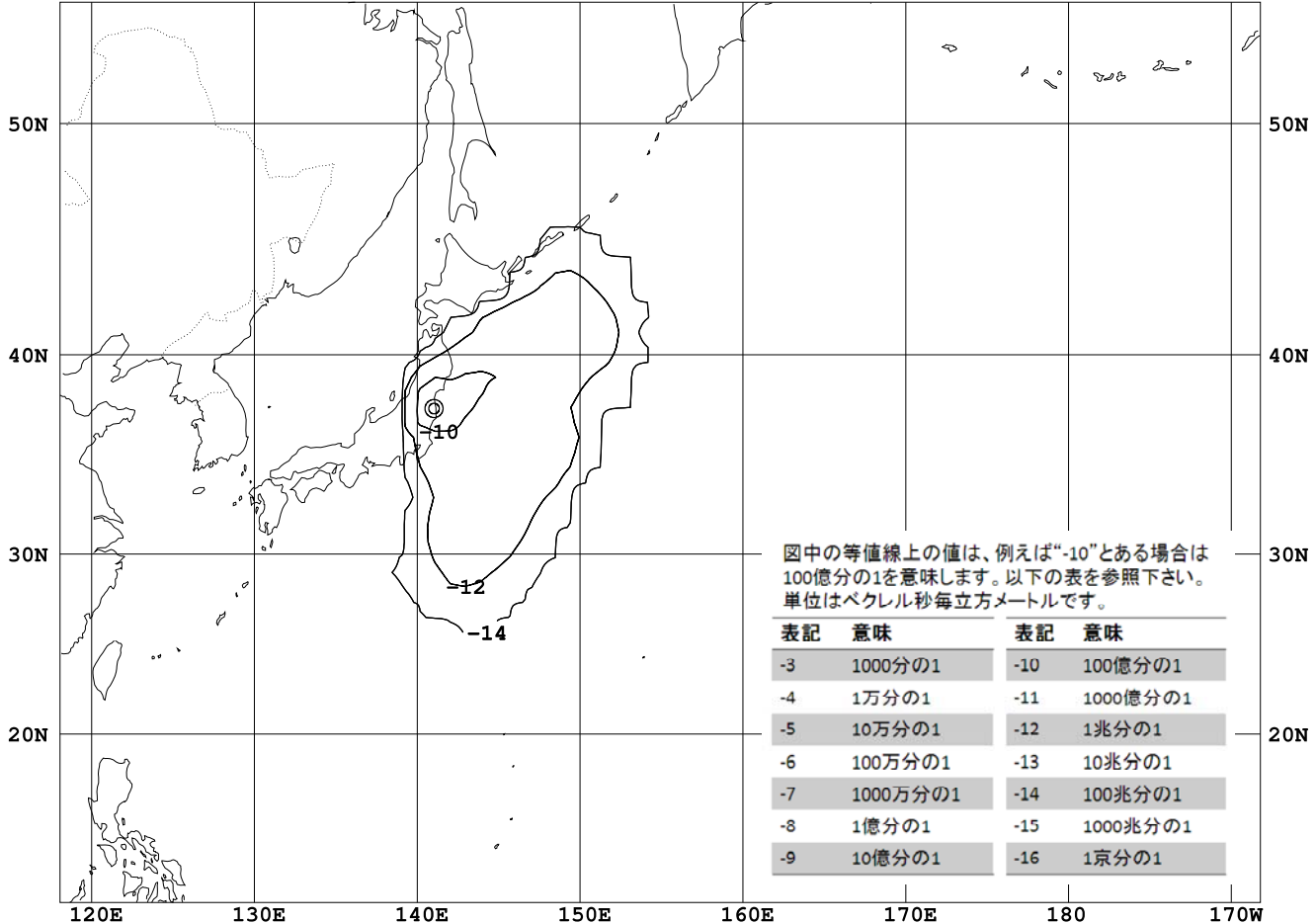
note from Japan Meteorological Agency:

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DELEGATED AUTHORITY REQUESTED  
 IAEA NOTIFIED EMERGENCY

## TIME INTEGRATED SURFACE - 500M LAYER CONCENTRATION

INTEGRATED FROM 12UTC 12 APR 2011  
TO 12UTC 13 APR 2011



(ISSUED 0239UTC 12 APR 2011)

ASSUMED POLLUTANT RELEASED : I -131  
START OF THE EMISSION : 0200UTC 12 APR 2011  
END OF THE EMISSION : 0200UTC 13 APR 2011  
© SOURCE LOCATION : LATITUDE 37.42N  
LONGITUDE 141.03E  
NAME FUKUSHIMA DAIICHI, JAPAN  
ASSUMED TOTAL EMISSION : 1 BECQUEREL  
UNIFORM RELEASE FROM 20- 500M ABOVE THE GROUND  
UNIT : (BQ.S/M3)  
MAXIMUM : 1.35E-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。

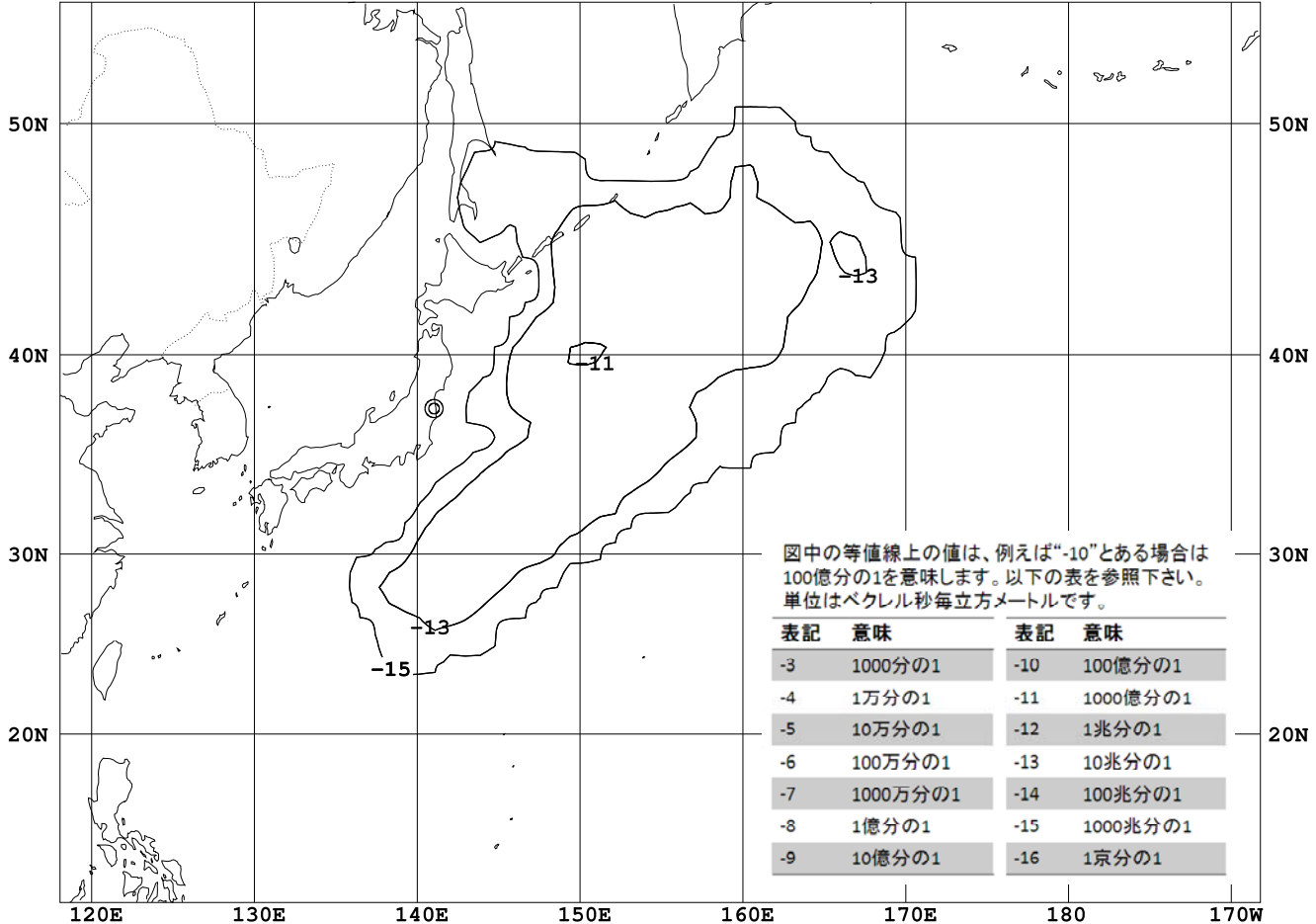
note from Japan Meteorological Agency:

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DELEGATED AUTHORITY REQUESTED  
 IAEA NOTIFIED EMERGENCY

## TIME INTEGRATED SURFACE - 500M LAYER CONCENTRATION

INTEGRATED FROM 12UTC 13 APR 2011  
TO 12UTC 14 APR 2011



(ISSUED 0239UTC 12 APR 2011)

ASSUMED POLLUTANT RELEASED : I -131  
START OF THE EMISSION : 0200UTC 12 APR 2011  
END OF THE EMISSION : 0200UTC 13 APR 2011  
© SOURCE LOCATION : LATITUDE 37.42N  
LONGITUDE 141.03E  
NAME FUKUSHIMA DAIICHI, JAPAN  
ASSUMED TOTAL EMISSION : 1 BECQUEREL  
UNIFORM RELEASE FROM 20- 500M ABOVE THE GROUND  
UNIT : (BQ.S/M3)  
MAXIMUM : 1.20E-11 (BQ.S/M3)  
CONTOURS: 1E-11, 1E-13, 1E-15

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。

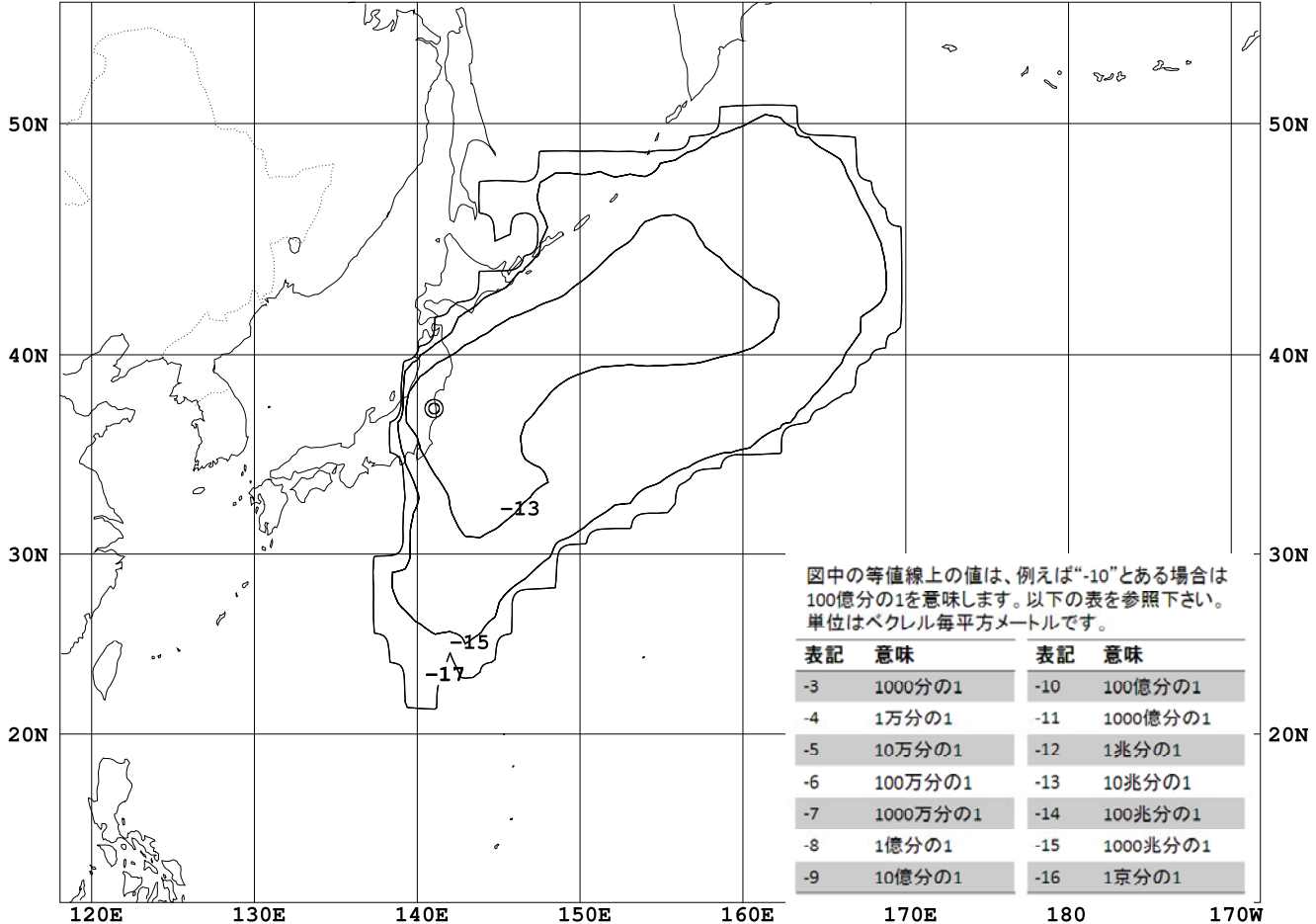
note from Japan Meteorological Agency:

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DELEGATED AUTHORITY REQUESTED  
 IAEA NOTIFIED EMERGENCY

## TOTAL (WET AND DRY) DEPOSITION

INTEGRATED FROM 02UTC 12 APR 2011  
TO 12UTC 14 APR 2011



(ISSUED 0239UTC 12 APR 2011)

ASSUMED POLLUTANT RELEASED : I -131  
START OF THE EMISSION : 0200UTC 12 APR 2011  
END OF THE EMISSION : 0200UTC 13 APR 2011  
© SOURCE LOCATION : LATITUDE 37.42N  
LONGITUDE 141.03E  
NAME FUKUSHIMA DAIICHI, JAPAN  
ASSUMED TOTAL EMISSION : 1 BECQUEREL  
UNIFORM RELEASE FROM 20- 500M ABOVE THE GROUND  
UNIT : (BQ/M2)  
MAXIMUM : 7.30E-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。

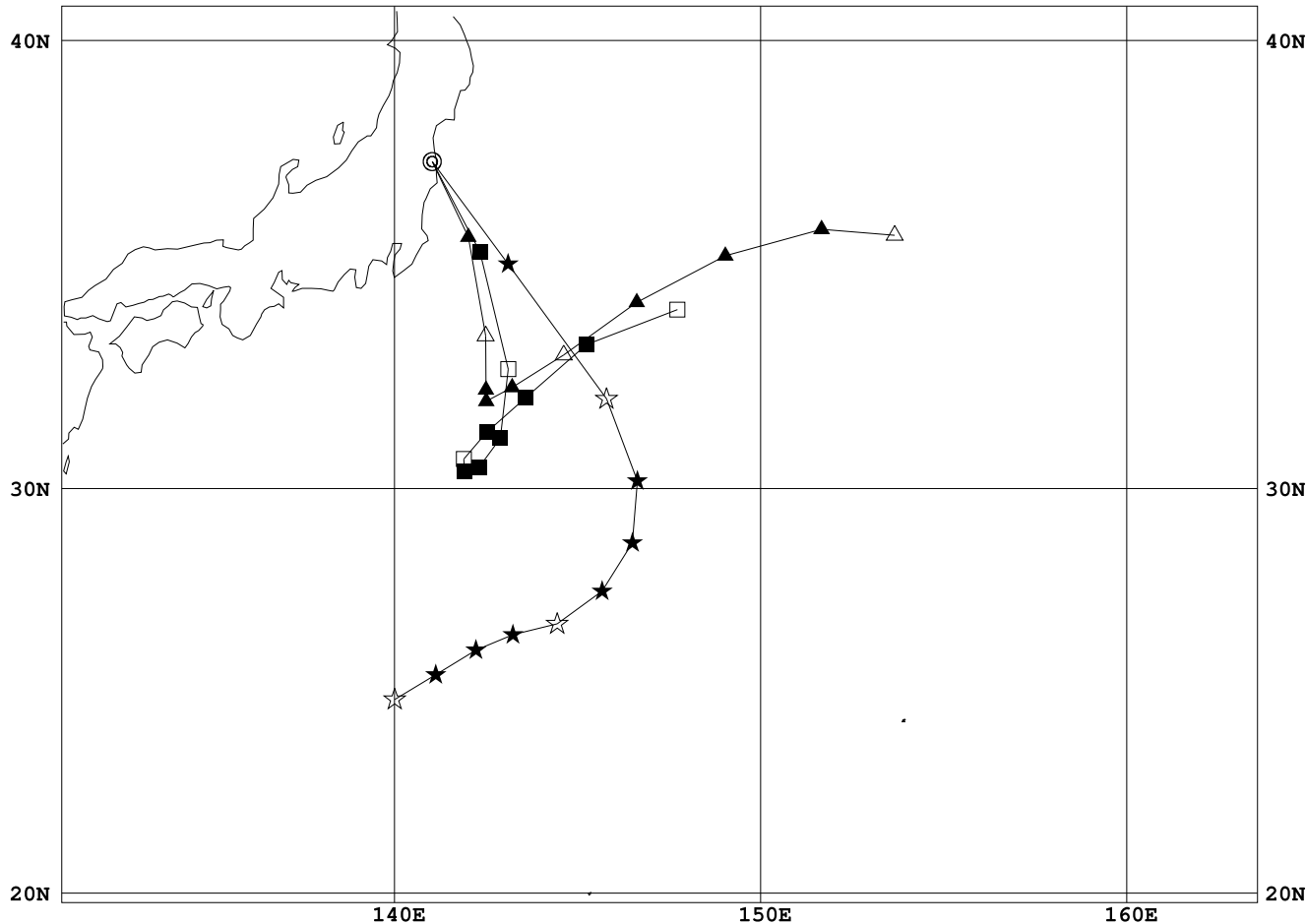
note from Japan Meteorological Agency:

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

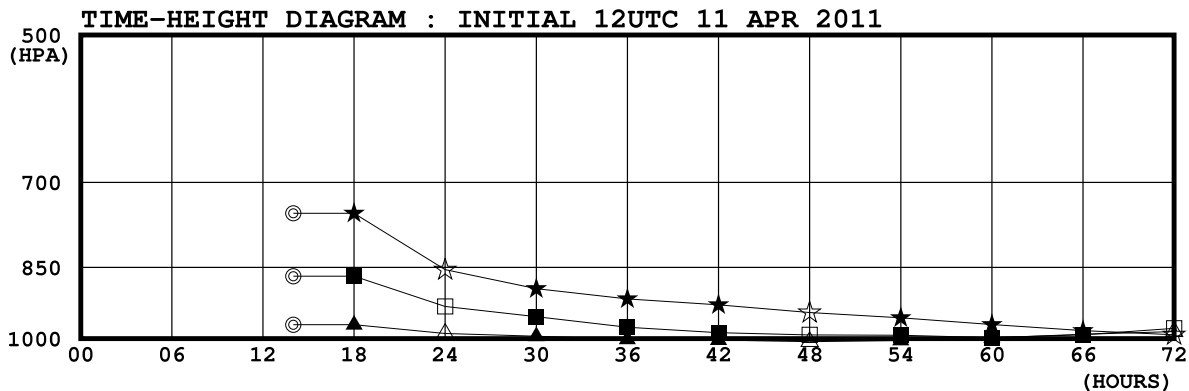
### 3-D TRAJECTORY

FROM 02UTC 12 APR 2011 TO 12UTC 14 APR 2011



(ISSUED 0239UTC 12 APR 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



## 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: 2011-04-12/01:50(UTC)  |   |
| <b>STATUS:</b> <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   |
| <b>SENDERS NAME :</b> INTERNATIONAL ATOMIC ENERGY AGENCY   |   |
| <b>COMMUNICATION DETAILS:</b> Tel. :   | use to confirm receipt of request   |
| Fax:   | use to confirm receipt of request   |
| Email:   | use to confirm receipt of request   |
| <b>NAME OF RELEASE SITE AND COUNTRY</b>  | Fukushima Daiichi, Japan (facility and place)   |
| <b>GEOGRAPHICAL LOCATION OF RELEASE:</b><br>(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 |

|  |
|--|
| <b>DECLARED EMERGENCY CLASS:</b>   |
| <input type="checkbox"/> NONE <input checked="" type="checkbox"/> other, specify: General Emergency  |
| <b>ACTION REQUIRED :</b>   |
| <input type="checkbox"/> NONE  |
| <input type="checkbox"/> GO ON STANDBY (request for products or for assistance on weather conditions is to be expected)  |
| <input type="checkbox"/> LEAD RSMCs ONLY: GENERATE PRODUCTS* AND SEND TO IAEA ONLY   |
| <input checked="" type="checkbox"/> ALL RSMCs: GENERATE PRODUCTS* AND DISTRIBUTE WITHIN THEIR REGION(S)  |
| <input checked="" type="checkbox"/> OTHER ACTION : All lead RSMCs, please notify IAEA IEC on the availability of products and publish products on RSMC websites, as per normal procedures. |

\* 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: 2011-04-12/02:00(UTC)

**DURATION:** 24 (hours) or **END OF RELEASE:** Date/Time: - - / : (UTC)

**RADIONUCLIDE SPECIES:** I-131

**TOTAL RELEASE QUANTITY:** 1 Bq (Becquerel)

**OR POLLUTANT RELEASE RATE:** (Becquerel/hour)

**EFFECTIVE HEIGHT OF RELEASE:**  surface or

release height: base: 20 (m), top:500 (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:**

(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**