TIME INTEGRATED SURFACE – 500M LAYER CONCENTRATION

INTEGRATED FROM 04UTC 23 MAY 2011 TO 00UTC 24 MAY 2011

DELEGATED AUTHORITY REQUESTED
IAEA NOTIFIED EMERGENCY

ASSUMED POLLUTANT RELEASED : I -131
START OF THE EMISSION : 0400UTC 23 MAY 2011
END OF THE EMISSION : 0400UTC 26 MAY 2011

NAME : FUKUSHIMA DAIICHI, JAPAN

ASSUMED TOTAL EMISSION : 1 BECQUEREL
UNIFORM RELEASE FROM 20- 500M ABOVE THE GROUND
UNIT : (BQ.S/M3)
MAXIMUM : 5.13E-9 (BQ.S/M3)

CONTOUR VALUES MAY CHANGE FROM CHART TO CHART

JAPAN METEOROLOGICAL AGENCY
GLOBAL TRACER TRANSPORT MODEL
CHART 2 / 5
DELEGATED AUTHORITY REQUESTED
IAEA NOTIFIED EMERGENCY

TIME INTEGRATED SURFACE - 500M LAYER CONCENTRATION

INTEGRATED FROM 00UTC 24 MAY 2011
TO 00UTC 25 MAY 2011

ASSUMED POLLUTANT RELEASED : I-131
START OF THE EMISSION : 0400UTC 23 MAY 2011
END OF THE EMISSION : 0400UTC 26 MAY 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 3.68E-9 (BQ.S/M3)
CONTOURS 1E-10, 1E-12, 1E-14

CONTOUR VALUES MAY CHANGE FROM CHART TO CHART

JAPAN METEOROLOGICAL AGENCY
GLOBAL TRACER TRANSPORT MODEL
CHART 3 / 5
DELEGATED AUTHORITY REQUESTED

IAEA NOTIFIED EMERGENCY

TIME INTEGRATED SURFACE – 500M LAYER CONCENTRATION

INTEGRATED FROM 00UTC 25 MAY 2011 TO 00UTC 26 MAY 2011

ASSUMED POLLUTANT RELEASED : I -131
START OF THE EMISSION : 0400UTC 23 MAY 2011
END OF THE EMISSION : 0400UTC 26 MAY 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 : 1.65E-9 (BQ.S/M3)
CONTOURS: 1E-9, 1E-11, 1E-13

CONTOUR VALUES MAY CHANGE FROM CHART TO CHART

JAPAN METEOROLOGICAL AGENCY
GLOBAL TRACER TRANSPORT MODEL
CHART 4 / 5
DELEGATED AUTHORITY REQUESTED
IAEA NOTIFIED EMERGENCY

TOTAL (WET AND DRY) DEPOSITION
INTEGRATED FROM 04UTC 23 MAY 2011
TO 00UTC 26 MAY 2011

ASSUMED POLLUTANT RELEASED: I -131
START OF THE EMISSION: 0400UTC 23 MAY 2011
END OF THE EMISSION: 0400UTC 26 MAY 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: 9.29E-12 (BQ/M2)
CONTOURS: 1E-13, 1E-15, 1E-17

CONTOUR VALUES MAY CHANGE FROM CHART TO CHART

JAPAN METEOROLOGICAL AGENCY
GLOBAL TRACER TRANSPORT MODEL
CHART 5 / 5
DELEGATED AUTHORITY REQUESTED
IAEA NOTIFIED EMERGENCY

3-D TRAJECTORY

FROM 04UTC 23 MAY 2011 TO 00UTC 26 MAY 2011

JAPAN METEOROLOGICAL AGENCY
GLOBAL TRACER TRANSPORT MODEL
CHART 1 / 5

Note: 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.
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.

<table>
<thead>
<tr>
<th>STATUS:</th>
<th>☑ EMERGENCY</th>
<th>☐ EXERCISE</th>
</tr>
</thead>
<tbody>
<tr>
<td>REQUESTED RSMCs:</td>
<td>EXETER</td>
<td>Toulouse</td>
</tr>
<tr>
<td></td>
<td>☑ BEIJING</td>
<td>TOKYO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENDER'S NAME:</th>
<th>INTERNATIONAL ATOMIC ENERGY AGENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUNICATION DETAILS:</td>
<td>Tel.: use to confirm receipt of request</td>
</tr>
<tr>
<td>Fax:</td>
<td>use to confirm receipt of request</td>
</tr>
<tr>
<td>Email:</td>
<td>use to confirm receipt of request</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NAME OF RELEASE SITE AND COUNTRY</th>
<th>Fukushima Daichi, Japan (facility and place)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRAPHICAL LOCATION OF RELEASE:</td>
<td>37.4206 decimal degrees X N S</td>
</tr>
<tr>
<td>(MUST BE COMPLETED)</td>
<td>141.0329 decimal degrees X E W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DECLARED EMERGENCY CLASS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ other, specify: General Emergency</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACTION REQUIRED:</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ NONE</td>
</tr>
<tr>
<td>☐ GO ON STANDBY (request for products or for assistance on weather conditions is to be expected)</td>
</tr>
<tr>
<td>☐ LEAD RSMCs ONLY: GENERATE PRODUCTS* AND SEND TO IAEA ONLY</td>
</tr>
<tr>
<td>☐ ALL RSMCs: GENERATE PRODUCTS* AND DISTRIBUTE WITHIN THEIR REGION(S)</td>
</tr>
<tr>
<td>☑ OTHER ACTION: All lead RSMCs, please notify IAEA IEC on the availability of products and publish products on RSMC websites, as per normal procedures.</td>
</tr>
</tbody>
</table>

* 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: 2011-5-23/04:00 (UTC)

- DURATION: 72 (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*