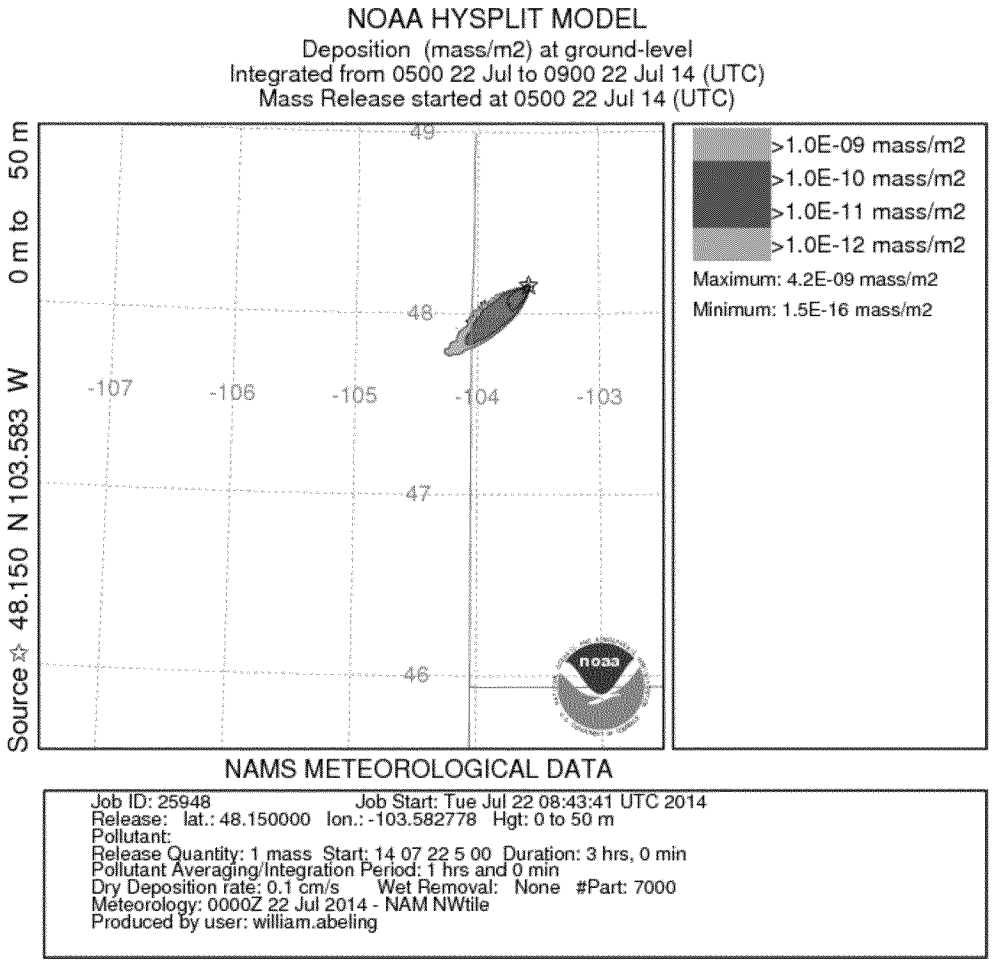
Williston Chemical Fire Decision Support July 22, 2014

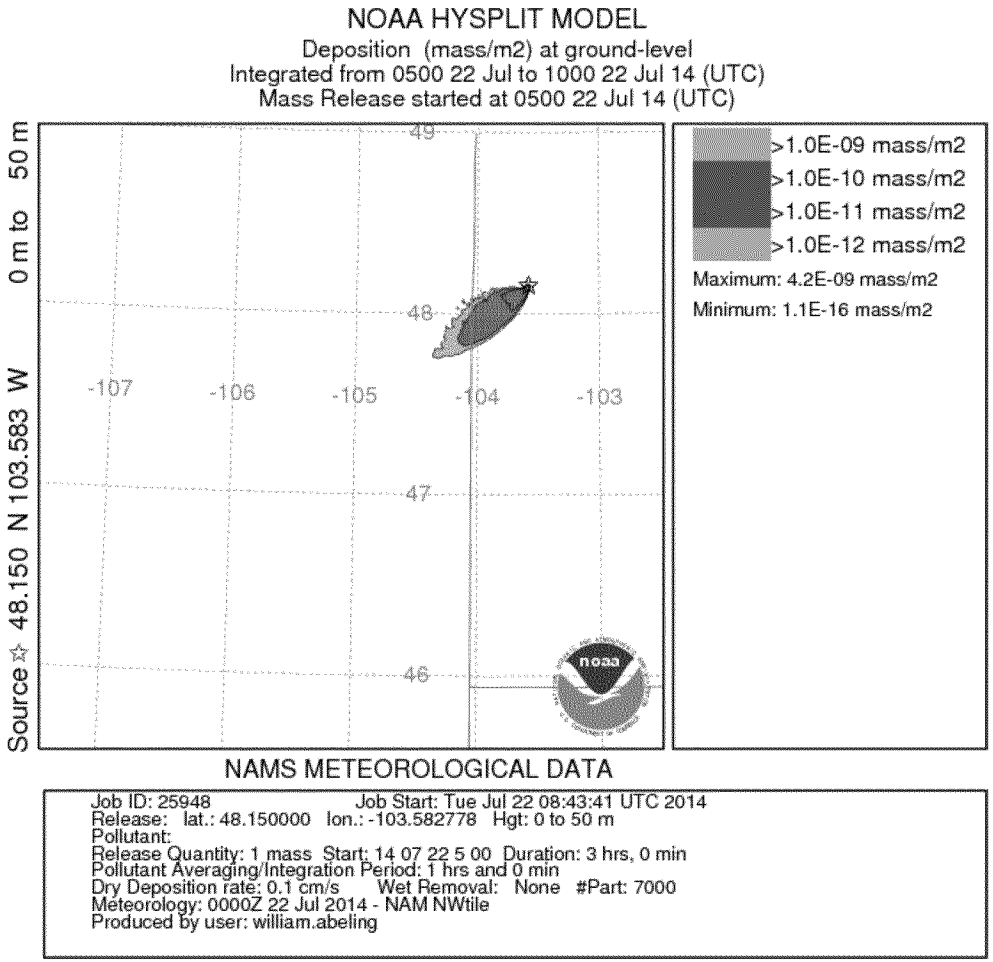
July 22 Hysplit deposition model run beginning 4 am CDT after a midnight initiation.

NOAA's National Weather Service
Bismarck, North Dakota

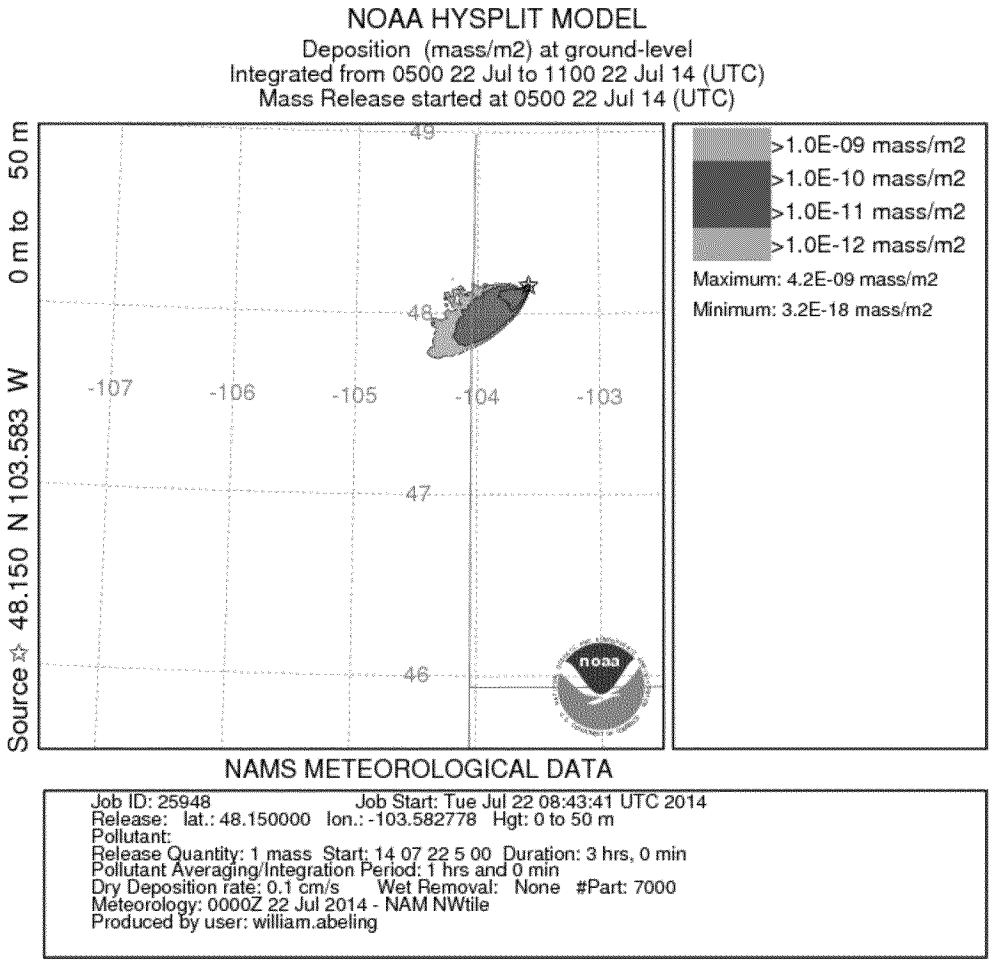
Tuesday July 22nd
4 am deposition after midnight initiation.



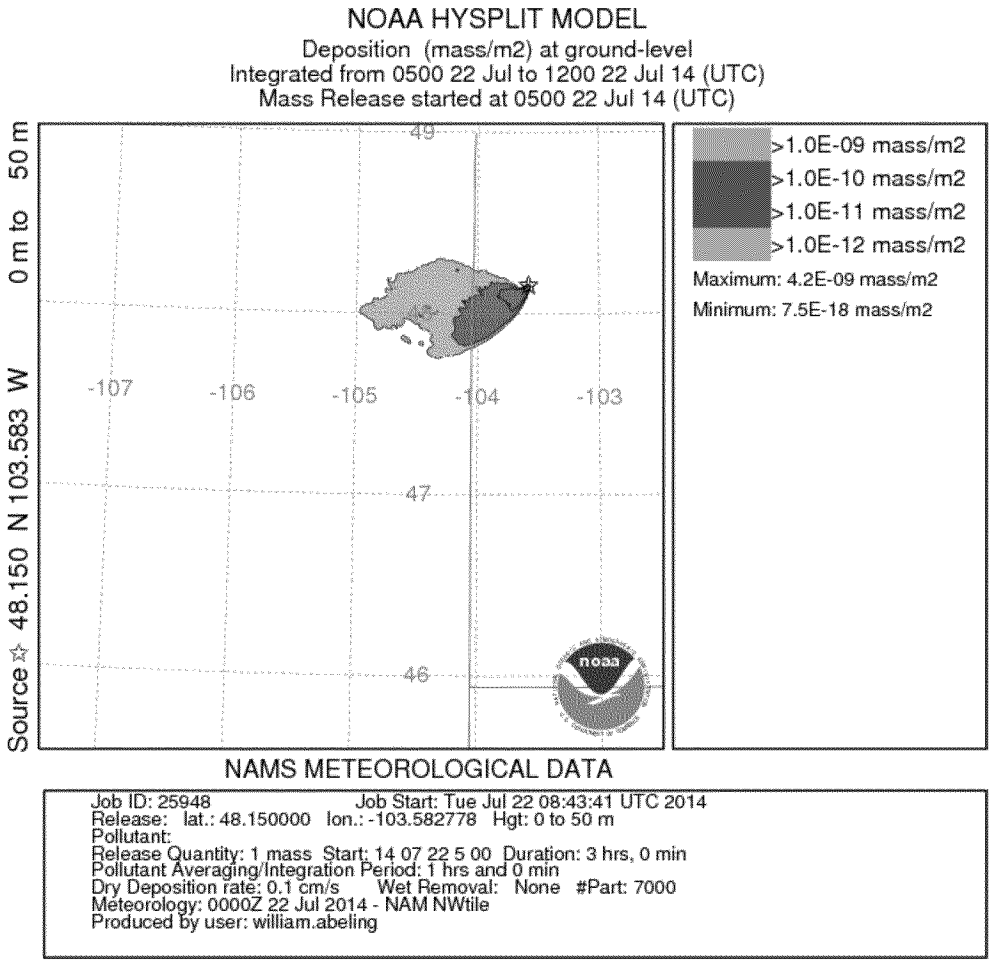
5 am


NOAA HYSPLIT MODEL
Deposition (mass/m2) at ground-level
Integrated from 0500 22 Jul to 1000 22 Jul 14 (UTC)
Mass Release started at 0500 22 Jul 14 (UTC)
Source ☆ 48.150 N 103.583 W 0 m to 50 m
49
48
47
46
-107
-106
-105
-104
-103
>1.0E-09 mass/m2
>1.0E-10 mass/m2
>1.0E-11 mass/m2
>1.0E-12 mass/m2
Maximum: 4.2E-09 mass/m2
Minimum: 1.1E-16 mass/m2
NAMS METEOROLOGICAL DATA
Job ID: 25948 Job Start: Tue Jul 22 08:43:41 UTC 2014
Release: lat.: 48.150000 lon.: -103.582778 Hgt: 0 to 50 m
Pollutant:
Release Quantity: 1 mass Start: 14 07 22 5 00 Duration: 3 hrs, 0 min
Pollutant Averaging/Integration Period: 1 hrs and 0 min
Dry Deposition rate: 0.1 cm/s Wet Removal: None #Part: 7000
Meteorology: 0000Z 22 Jul 2014 - NAM NWtile
Produced by user: william.abeling

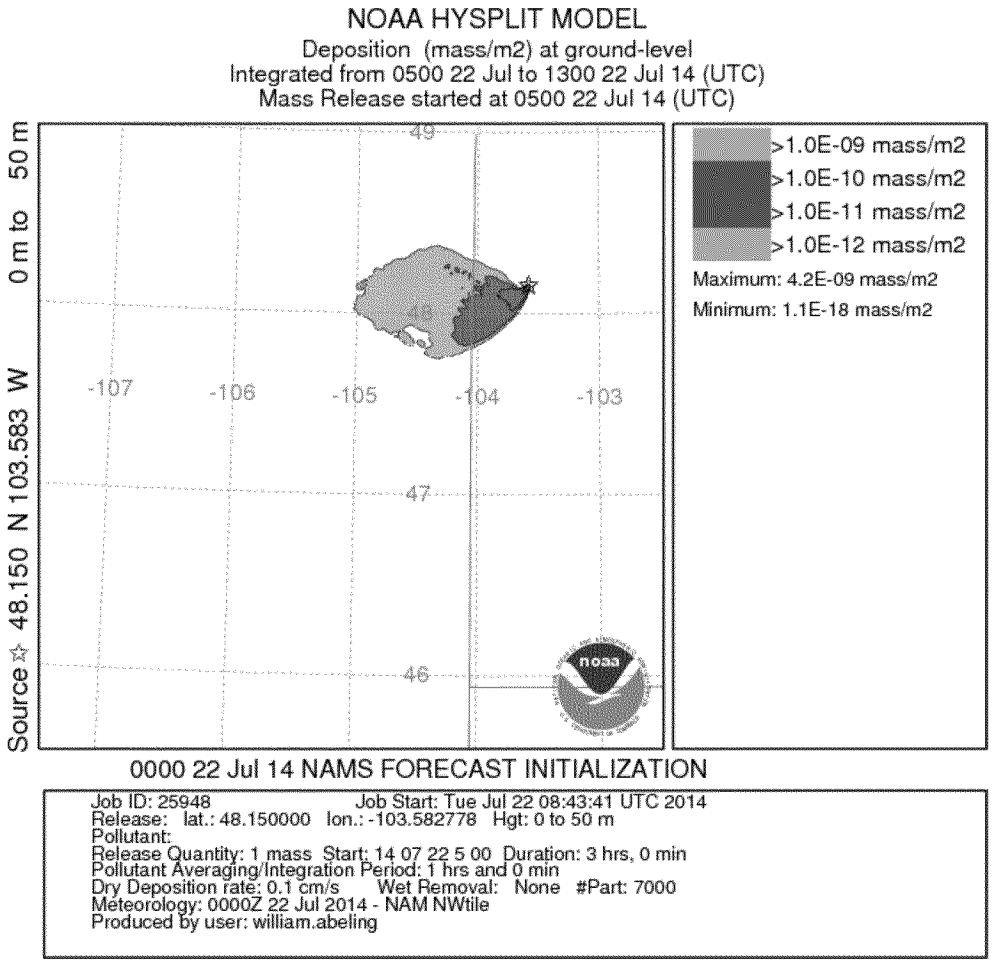
6 am


NOAA HYSPLIT MODEL
Deposition (mass/m2) at ground-level
Integrated from 0500 22 Jul to 1100 22 Jul 14 (UTC)
Mass Release started at 0500 22 Jul 14 (UTC)
Source ☆ 48.150 N 103.583 W 0 m to 50 m
49
48
47
46
-107
-106
-105
-104
-103
>1.0E-09 mass/m2
>1.0E-10 mass/m2
>1.0E-11 mass/m2
>1.0E-12 mass/m2
Maximum: 4.2E-09 mass/m2
Minimum: 3.2E-18 mass/m2
NAMS METEOROLOGICAL DATA
Job ID: 25948 Job Start: Tue Jul 22 08:43:41 UTC 2014
Release: lat.: 48.150000 lon.: -103.582778 Hgt: 0 to 50 m
Pollutant:
Release Quantity: 1 mass Start: 14 07 22 5 00 Duration: 3 hrs, 0 min
Pollutant Averaging/Integration Period: 1 hrs and 0 min
Dry Deposition rate: 0.1 cm/s Wet Removal: None #Part: 7000
Meteorology: 0000Z 22 Jul 2014 - NAM NWtile
Produced by user: william.abeling

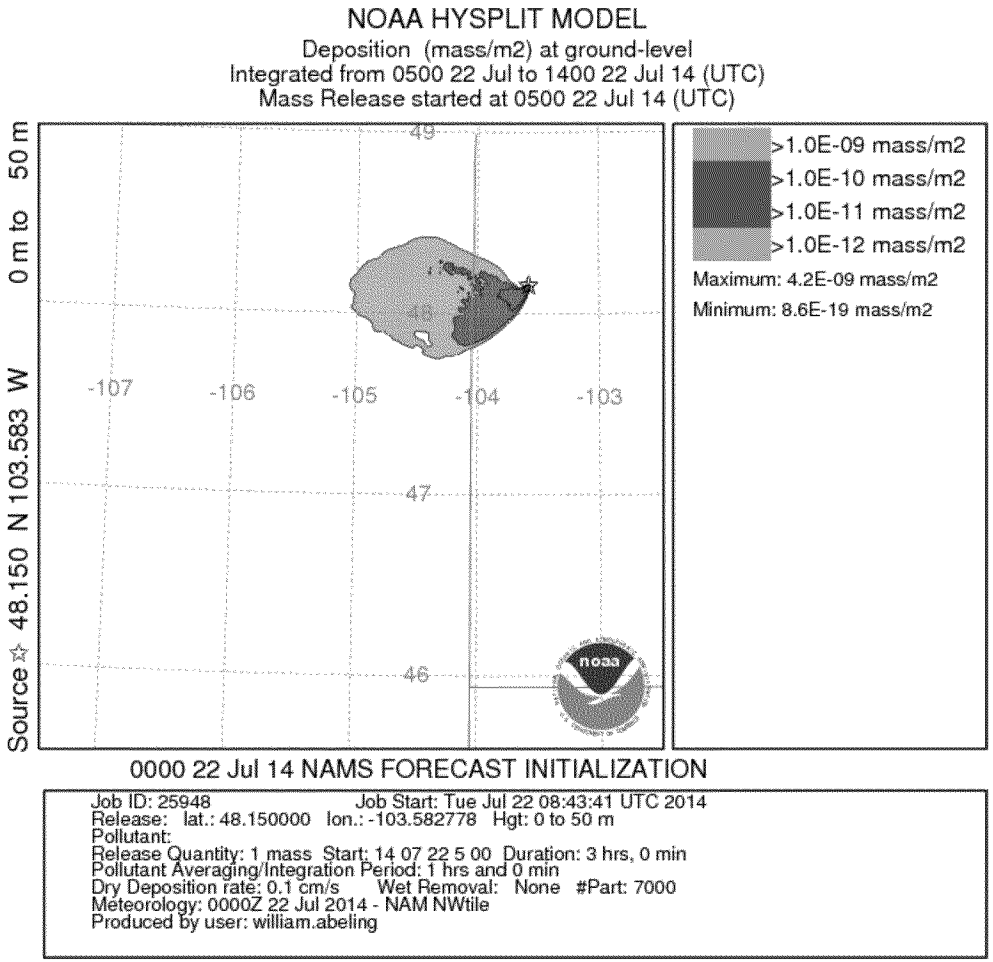
7 am


NOAA HYSPLIT MODEL
Deposition (mass/m2) at ground-level
Integrated from 0500 22 Jul to 1200 22 Jul 14 (UTC)
Mass Release started at 0500 22 Jul 14 (UTC)
Source ☆ 48.150 N 103.583 W 0 m to 50 m
49
47
46
-107
-106
-105
-104
-103
>1.0E-09 mass/m2
>1.0E-10 mass/m2
>1.0E-11 mass/m2
>1.0E-12 mass/m2
Maximum: 4.2E-09 mass/m2
Minimum: 7.5E-18 mass/m2
NAMS METEOROLOGICAL DATA
Job ID: 25948 Job Start: Tue Jul 22 08:43:41 UTC 2014
Release: lat.: 48.150000 lon.: -103.582778 Hgt: 0 to 50 m
Pollutant:
Release Quantity: 1 mass Start: 14 07 22 5 00 Duration: 3 hrs, 0 min
Pollutant Averaging/Integration Period: 1 hrs and 0 min
Dry Deposition rate: 0.1 cm/s Wet Removal: None #Part: 7000
Meteorology: 0000Z 22 Jul 2014 - NAM NWtile
Produced by user: william.abeling

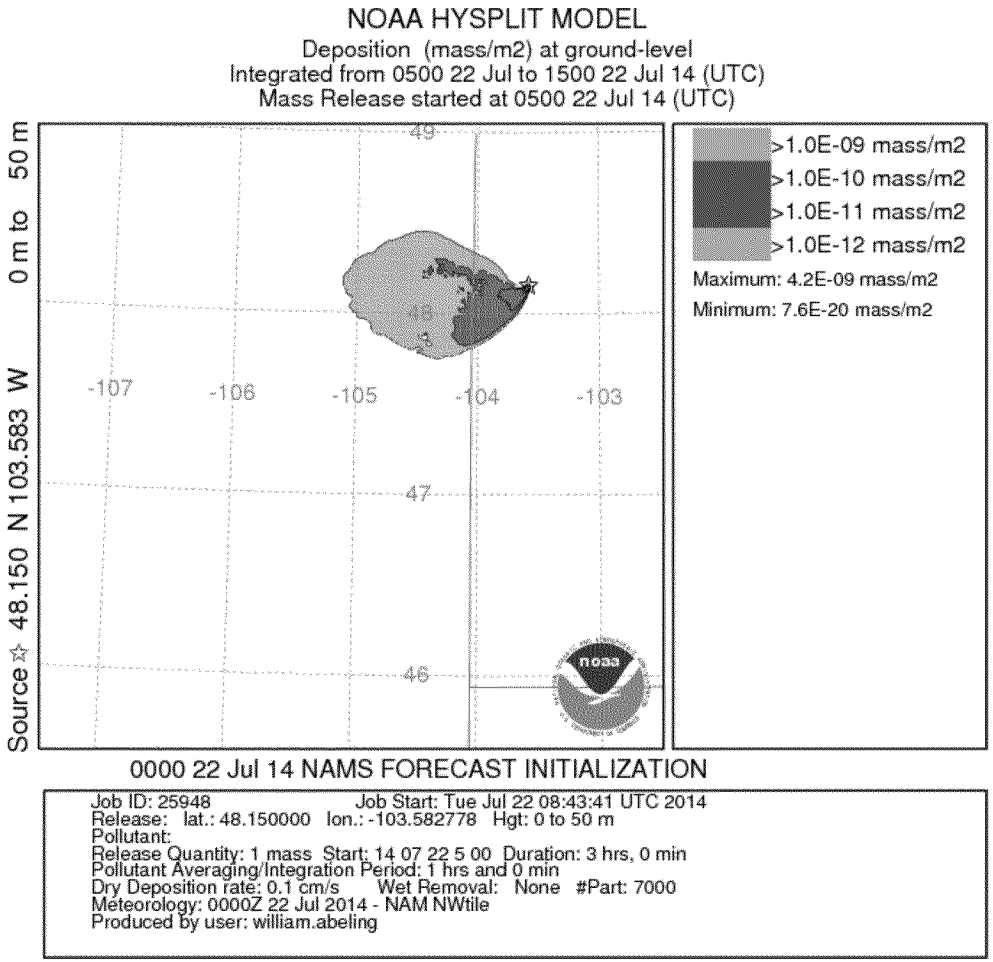
8 am


NOAA HYSPLIT MODEL
Deposition (mass/m2) at ground-level
Integrated from 0500 22 Jul to 1300 22 Jul 14 (UTC)
Mass Release started at 0500 22 Jul 14 (UTC)
Source ☆ 48.150 N 103.583 W 0 m to 50 m
49
48
47
46
-107
-106
-105
-104
-103
>1.0E-09 mass/m2
>1.0E-10 mass/m2
>1.0E-11 mass/m2
>1.0E-12 mass/m2
Maximum: 4.2E-09 mass/m2
Minimum: 1.1E-18 mass/m2
0000 22 Jul 14 NAMS FORECAST INITIALIZATION
Job ID: 25948 Job Start: Tue Jul 22 08:43:41 UTC 2014
Release: lat.: 48.150000 lon.: -103.582778 Hgt: 0 to 50 m
Pollutant:
Release Quantity: 1 mass Start: 14 07 22 5 00 Duration: 3 hrs, 0 min
Pollutant Averaging/Integration Period: 1 hrs and 0 min
Dry Deposition rate: 0.1 cm/s Wet Removal: None #Part: 7000
Meteorology: 0000Z 22 Jul 2014 - NAM NWtile
Produced by user: william.abeling

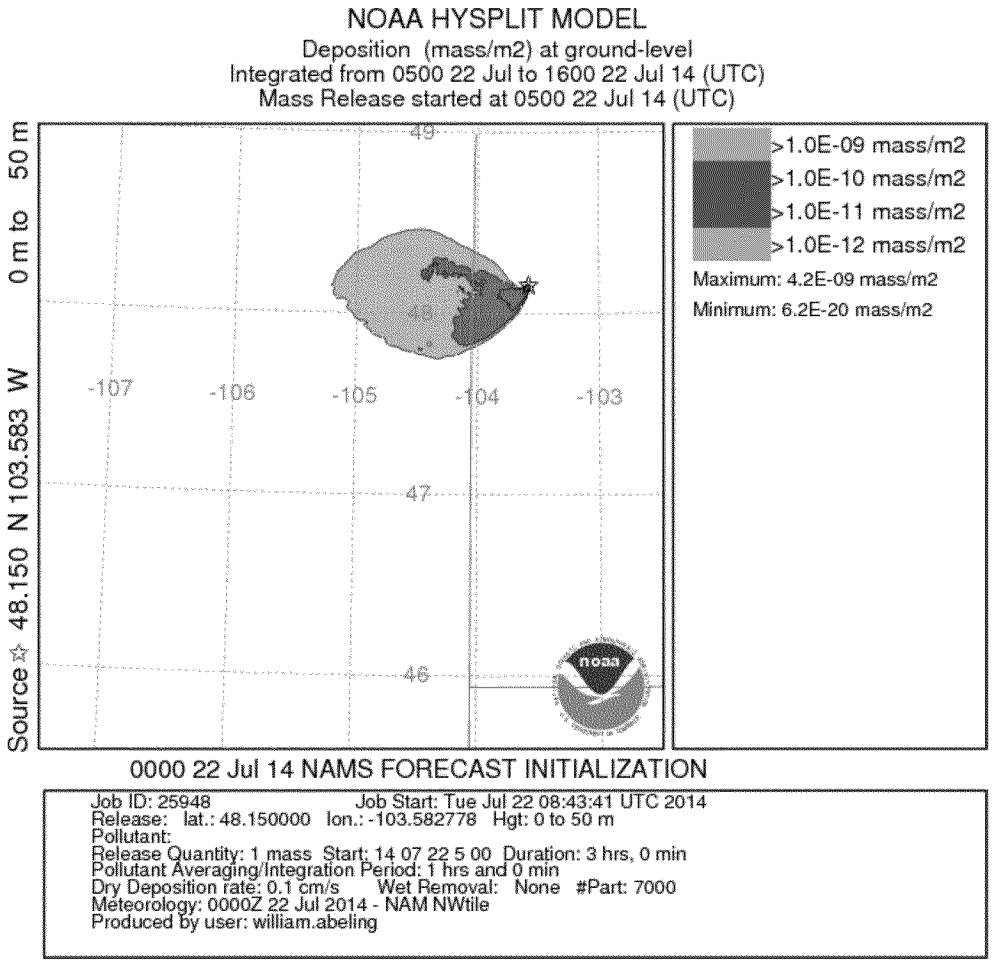
9 am


NOAA HYSPLIT MODEL
Deposition (mass/m2) at ground-level
Integrated from 0500 22 Jul to 1400 22 Jul 14 (UTC)
Mass Release started at 0500 22 Jul 14 (UTC)
Source ☆ 48.150 N 103.583 W 0 m to 50 m
49
48
47
46
-107
-106
-105
-104
-103
>1.0E-09 mass/m2
>1.0E-10 mass/m2
>1.0E-11 mass/m2
>1.0E-12 mass/m2
Maximum: 4.2E-09 mass/m2
Minimum: 8.6E-19 mass/m2
0000 22 Jul 14 NAMS FORECAST INITIALIZATION
Job ID: 25948 Job Start: Tue Jul 22 08:43:41 UTC 2014
Release: lat.: 48.150000 lon.: -103.582778 Hgt: 0 to 50 m
Pollutant:
Release Quantity: 1 mass Start: 14 07 22 5 00 Duration: 3 hrs, 0 min
Pollutant Averaging/Integration Period: 1 hrs and 0 min
Dry Deposition rate: 0.1 cm/s Wet Removal: None #Part: 7000
Meteorology: 0000Z 22 Jul 2014 - NAM NWtile
Produced by user: william.abeling

10 am


NOAA HYSPLIT MODEL
Deposition (mass/m2) at ground-level
Integrated from 0500 22 Jul to 1500 22 Jul 14 (UTC)
Mass Release started at 0500 22 Jul 14 (UTC)
Source ☆ 48.150 N 103.583 W 0 m to 50 m
49
48
47
46
-107
-106
-105
-104
-103
>1.0E-09 mass/m2
>1.0E-10 mass/m2
>1.0E-11 mass/m2
>1.0E-12 mass/m2
Maximum: 4.2E-09 mass/m2
Minimum: 7.6E-20 mass/m2
0000 22 Jul 14 NAMS FORECAST INITIALIZATION
Job ID: 25948 Job Start: Tue Jul 22 08:43:41 UTC 2014
Release: lat.: 48.150000 lon.: -103.582778 Hgt: 0 to 50 m
Pollutant:
Release Quantity: 1 mass Start: 14 07 22 5 00 Duration: 3 hrs, 0 min
Pollutant Averaging/Integration Period: 1 hrs and 0 min
Dry Deposition rate: 0.1 cm/s Wet Removal: None #Part: 7000
Meteorology: 0000Z 22 Jul 2014 - NAM NWtile
Produced by user: william.abeling

11 am


NOAA HYSPLIT MODEL
Deposition (mass/m2) at ground-level
Integrated from 0500 22 Jul to 1600 22 Jul 14 (UTC)
Mass Release started at 0500 22 Jul 14 (UTC)
Source ☆ 48.150 N 103.583 W 0 m to 50 m
49
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46
-107
-106
-105
-104
-103
>1.0E-09 mass/m2
>1.0E-10 mass/m2
>1.0E-11 mass/m2
>1.0E-12 mass/m2
Maximum: 4.2E-09 mass/m2
Minimum: 6.2E-20 mass/m2
0000 22 Jul 14 NAMS FORECAST INITIALIZATION
Job ID: 25948 Job Start: Tue Jul 22 08:43:41 UTC 2014
Release: lat.: 48.150000 lon.: -103.582778 Hgt: 0 to 50 m
Pollutant:
Release Quantity: 1 mass Start: 14 07 22 5 00 Duration: 3 hrs, 0 min
Pollutant Averaging/Integration Period: 1 hrs and 0 min
Dry Deposition rate: 0.1 cm/s Wet Removal: None #Part: 7000
Meteorology: 0000Z 22 Jul 2014 - NAM NWtile
Produced by user: william.abeling

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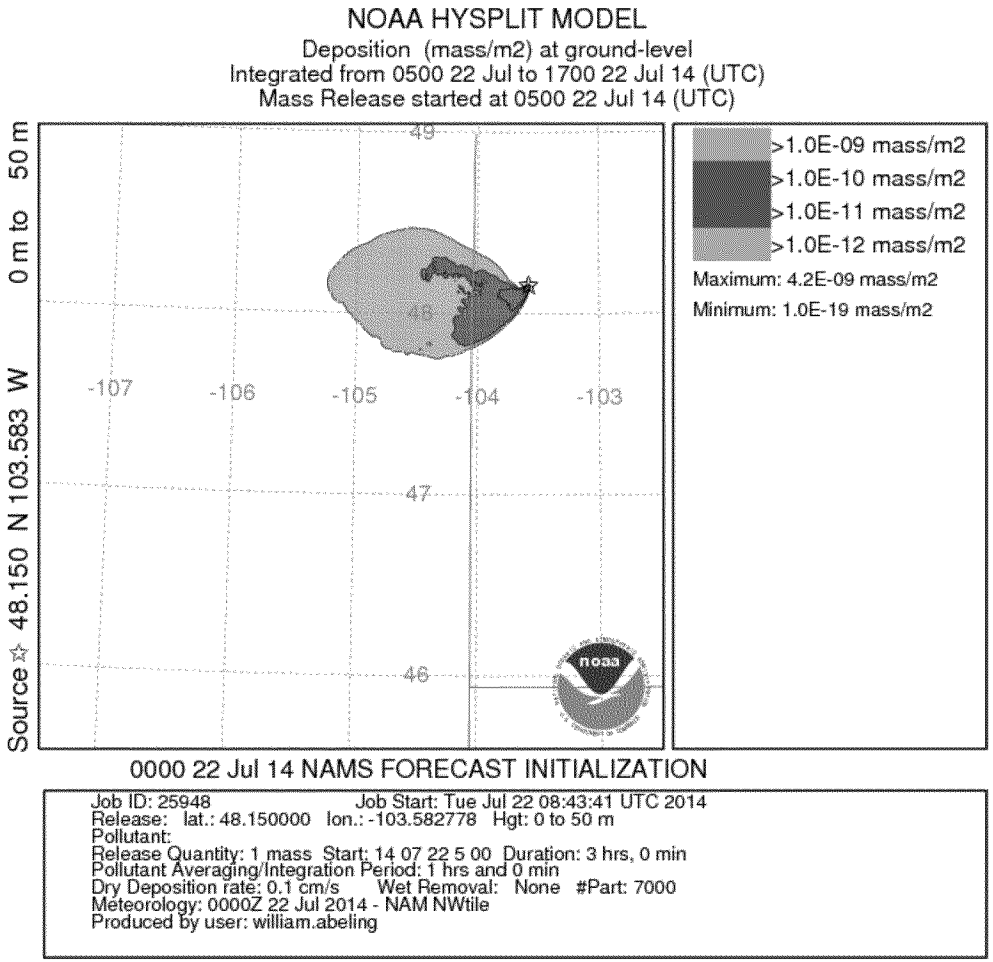
NOAA HYSPLIT MODEL
Deposition (mass/m2) at ground-level
Integrated from 0500 22 Jul to 1700 22 Jul 14 (UTC)
Mass Release started at 0500 22 Jul 14 (UTC)
Source ☆ 48.150 N 103.583 W 0 m to 50 m
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48
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46
-107
-106
-105
-104
-103
>1.0E-09 mass/m2
>1.0E-10 mass/m2
>1.0E-11 mass/m2
>1.0E-12 mass/m2
Maximum: 4.2E-09 mass/m2
Minimum: 1.0E-19 mass/m2
0000 22 Jul 14 NAMS FORECAST INITIALIZATION
Job ID: 25948 Job Start: Tue Jul 22 08:43:41 UTC 2014
Release: lat.: 48.150000 lon.: -103.582778 Hgt: 0 to 50 m
Pollutant:
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Pollutant Averaging/Integration Period: 1 hrs and 0 min
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Meteorology: 0000Z 22 Jul 2014 - NAM NWtile
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