



National Transportation Safety Board

**Office of Aviation Safety
Washington, D.C. 20594-2000
April 18, 2017**

**ATTACHMENT 4 to the WEATHER STUDY
DCA16IA215**

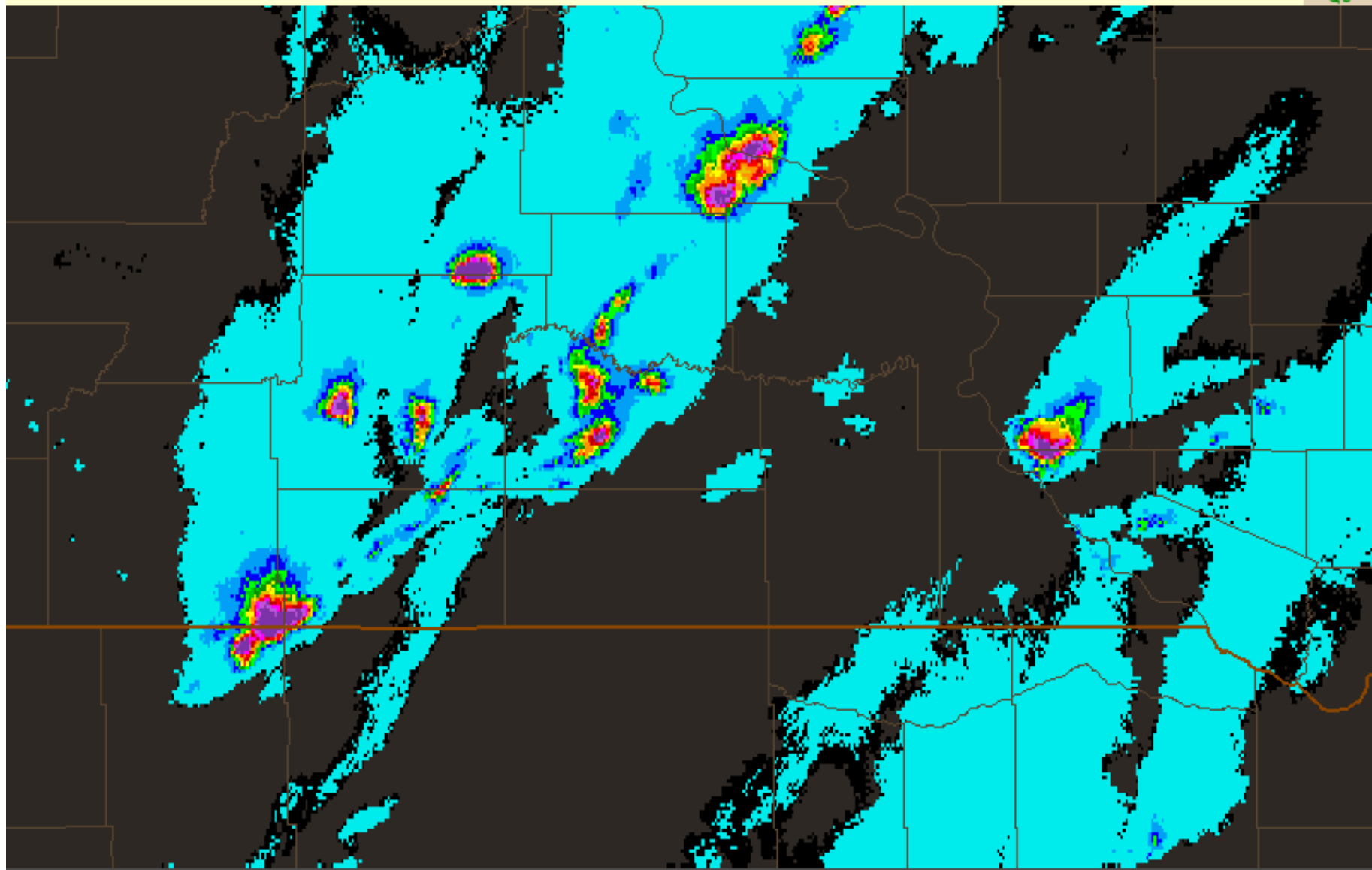
Vertically integrated liquid data provided by the Cooperative Institute for Mesoscale Meteorological Studies.

*Submitted by: Mike Richards
NTSB, AS-30*

Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:30:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing



44.75
-103.16 42.32 -97.840

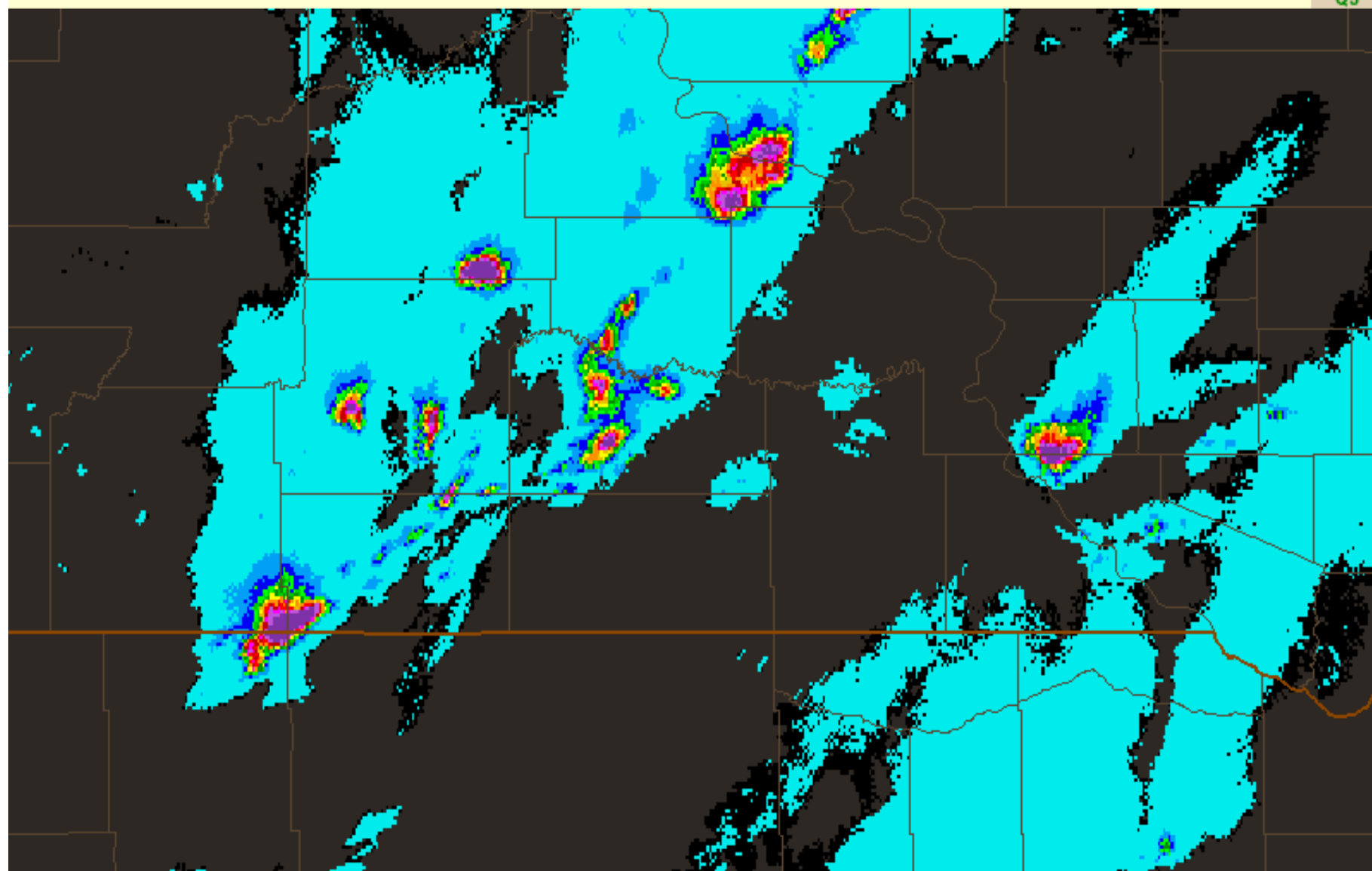
Vertically Integrated Liquid

Derived From Mosaic3D

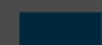
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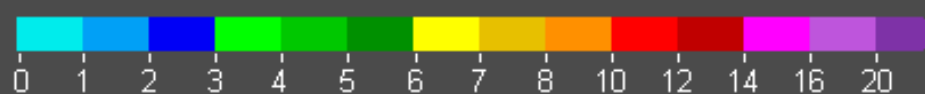
Q3



Volume Integrated Liquid [kg/m²]



No File Missing



44.75
-103.16 42.32 -97.840

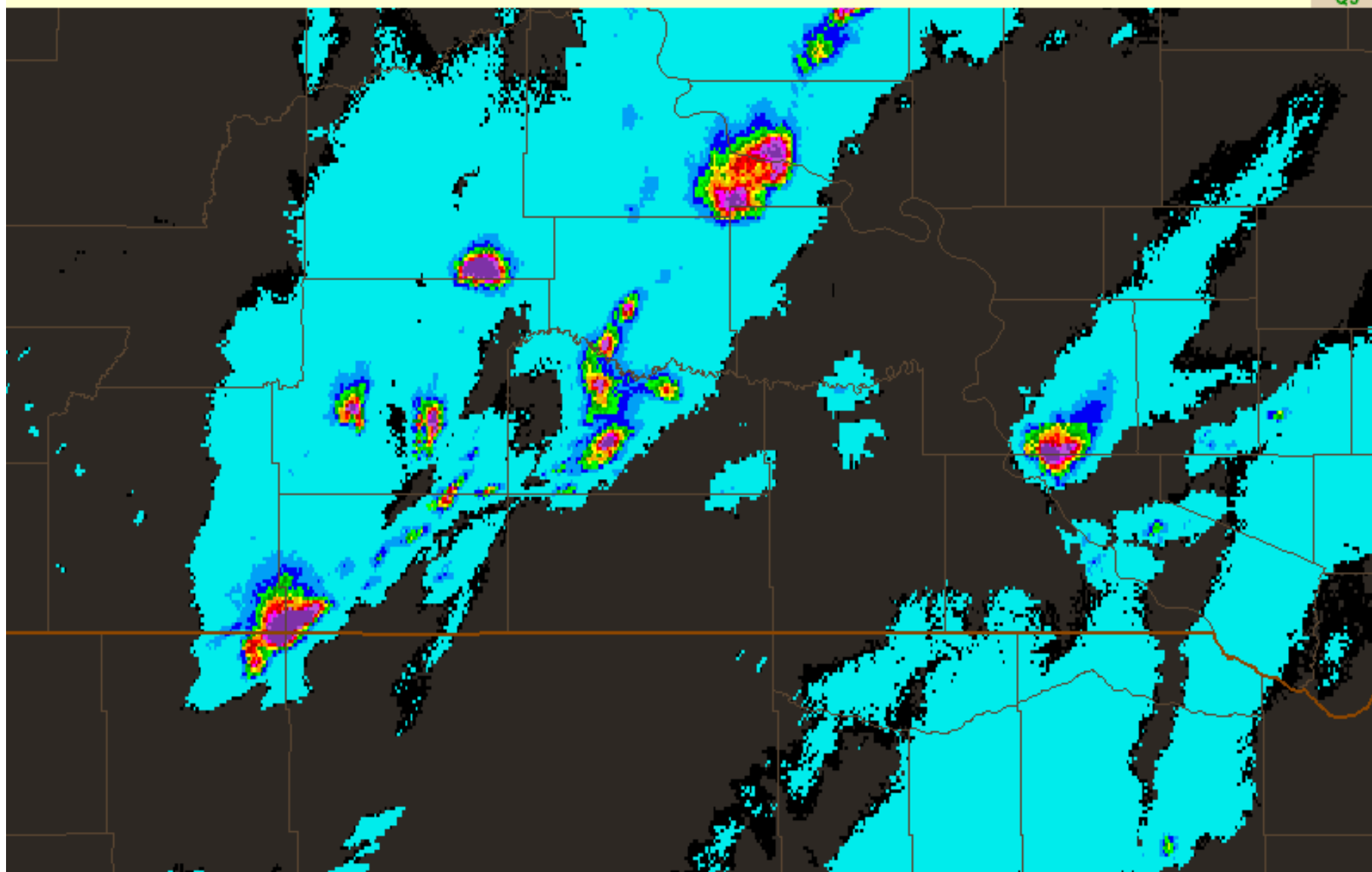
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:34:00 UTC

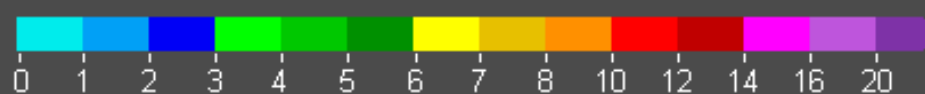


Q3



Volume Integrated Liquid [kg/m²]

No File Missing



44.75
-103.16 42.32 -97.840

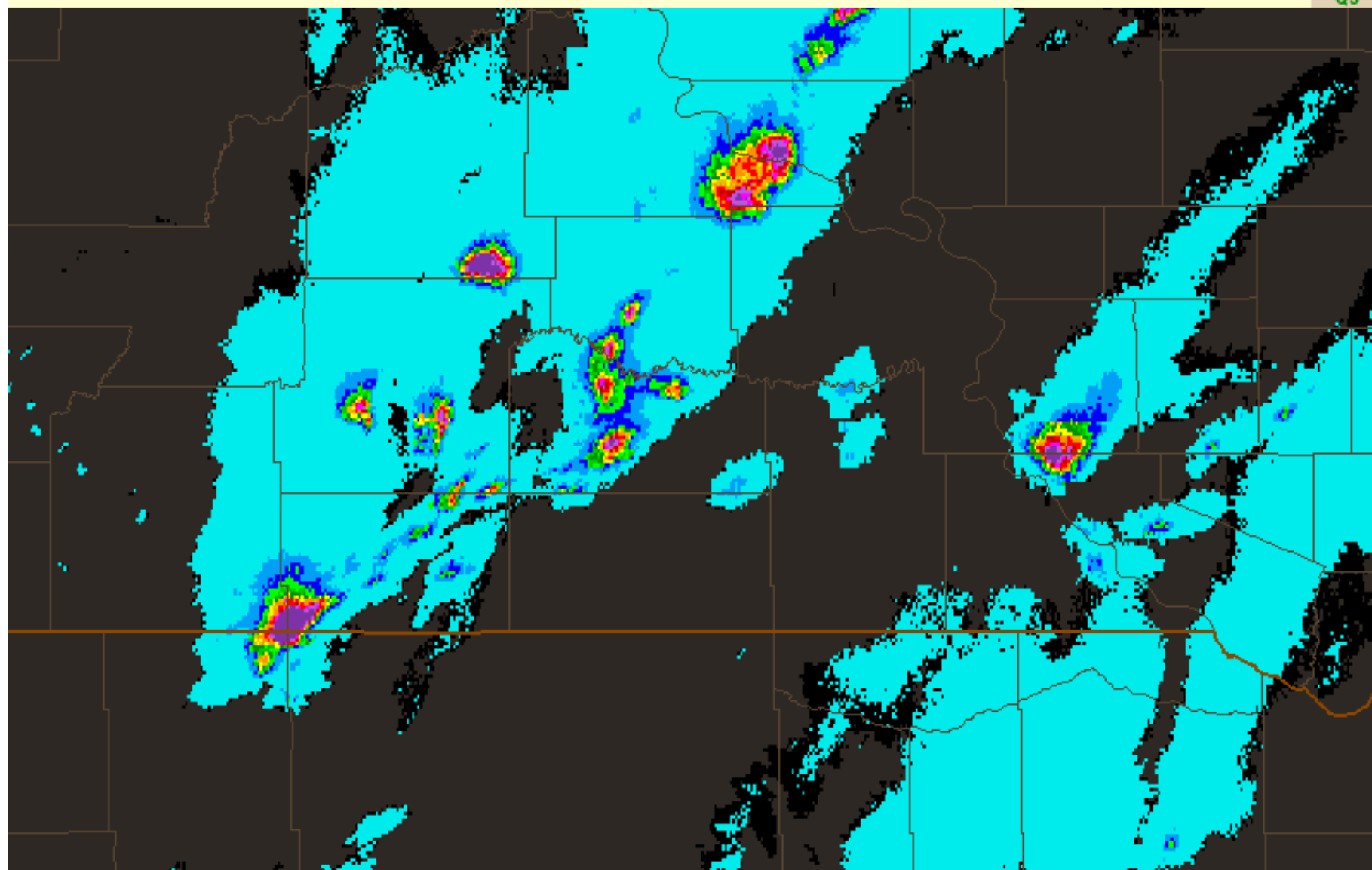
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:36:00 UTC

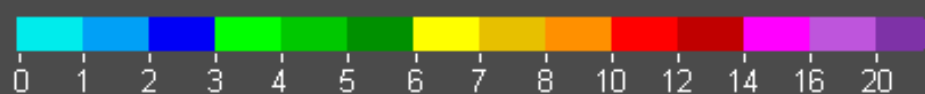


Q3



Volume Integrated Liquid [kg/m²]

No File Missing



44.75
-103.16 42.32 -97.840

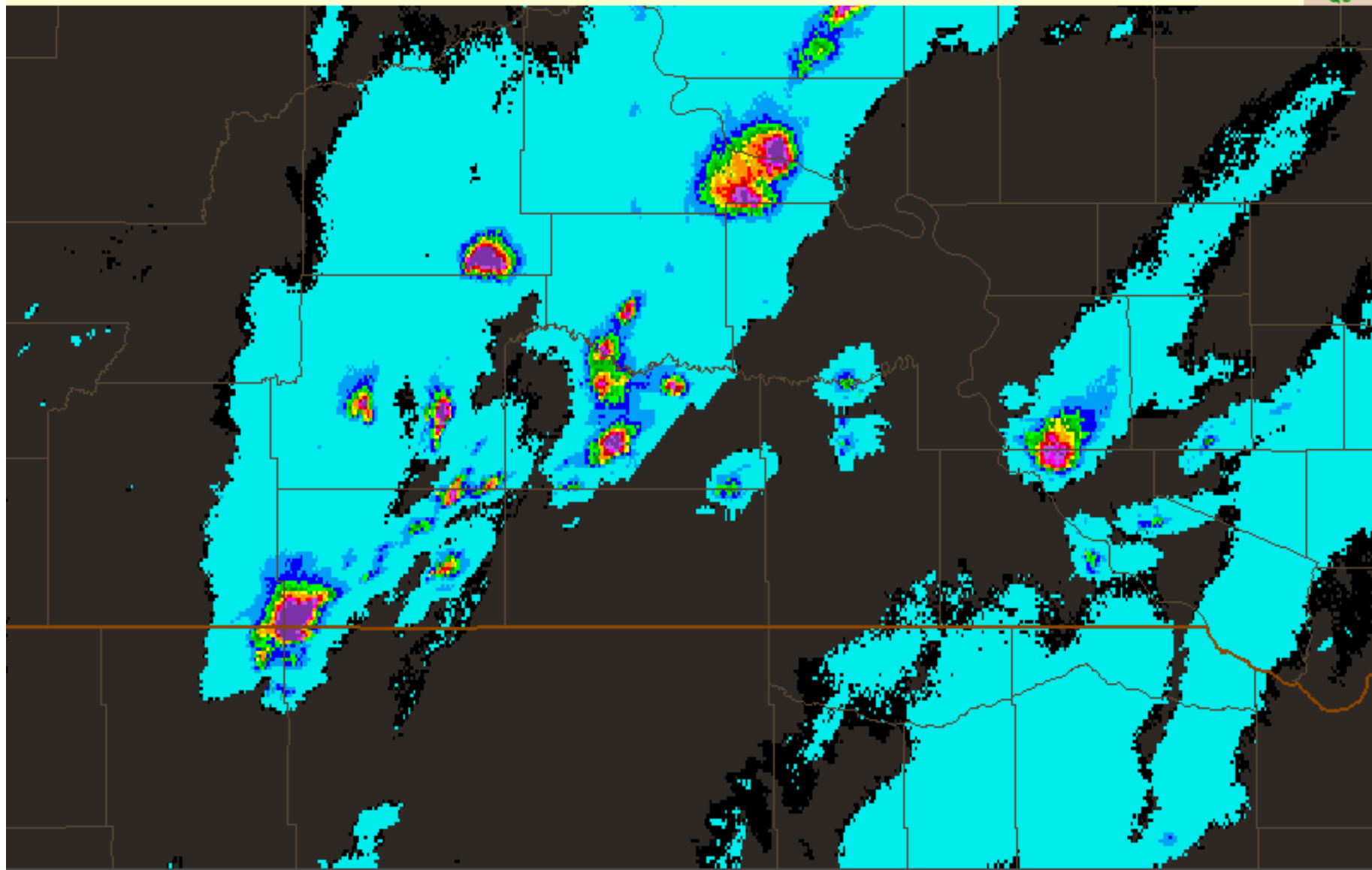
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:38:00 UTC

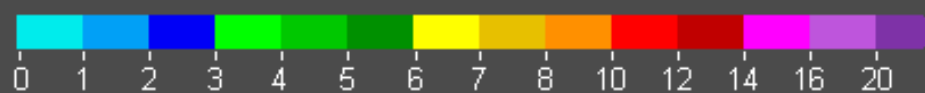


Q3



Volume Integrated Liquid [kg/m²]

No File Missing

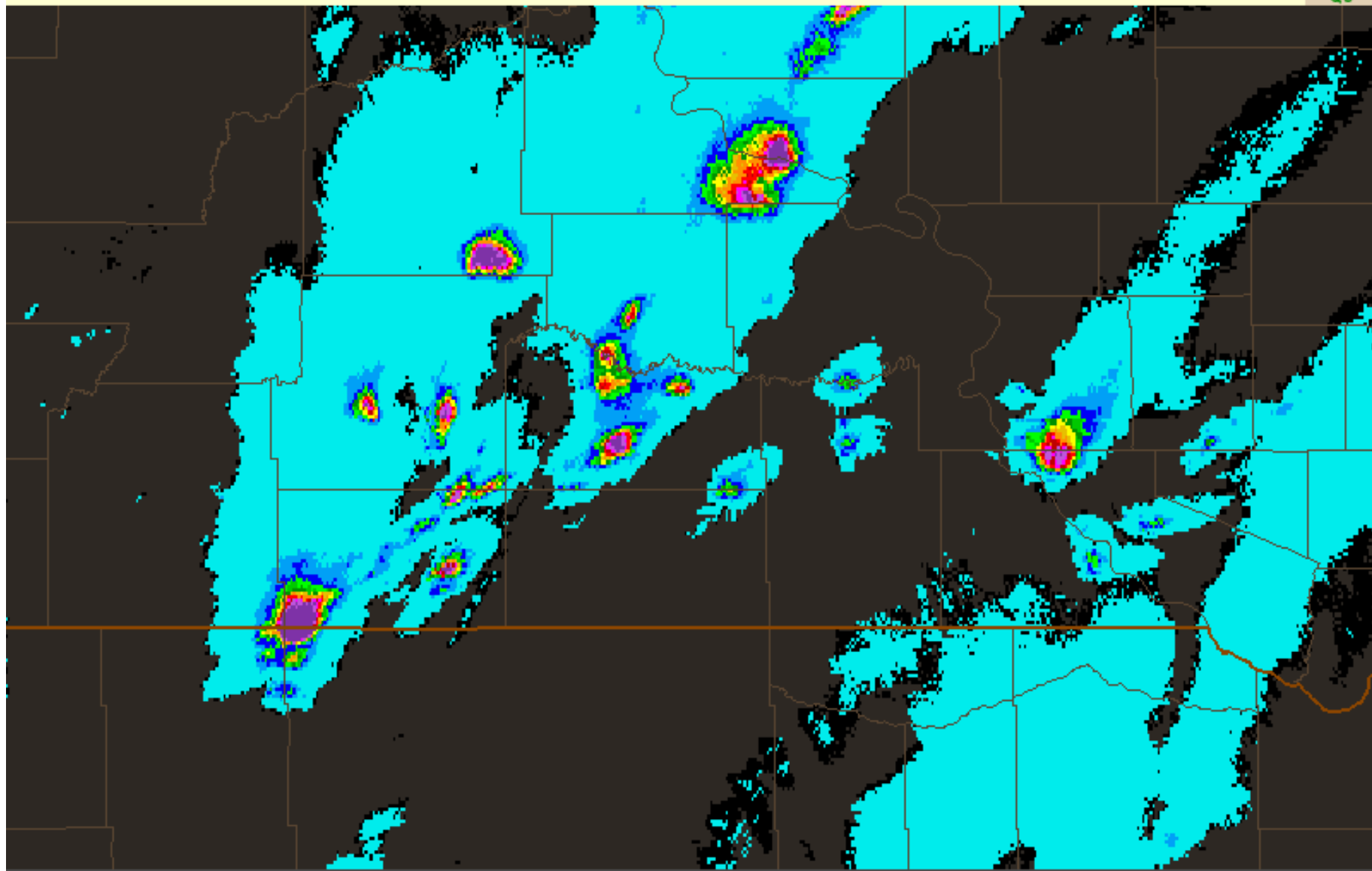


44.75
-103.16 42.32 -97.840

Vertically Integrated Liquid

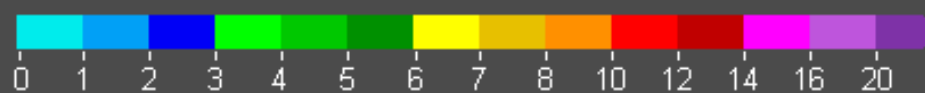
Derived From Mosaic3D

Valid: 08/12/2016 00:40:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing

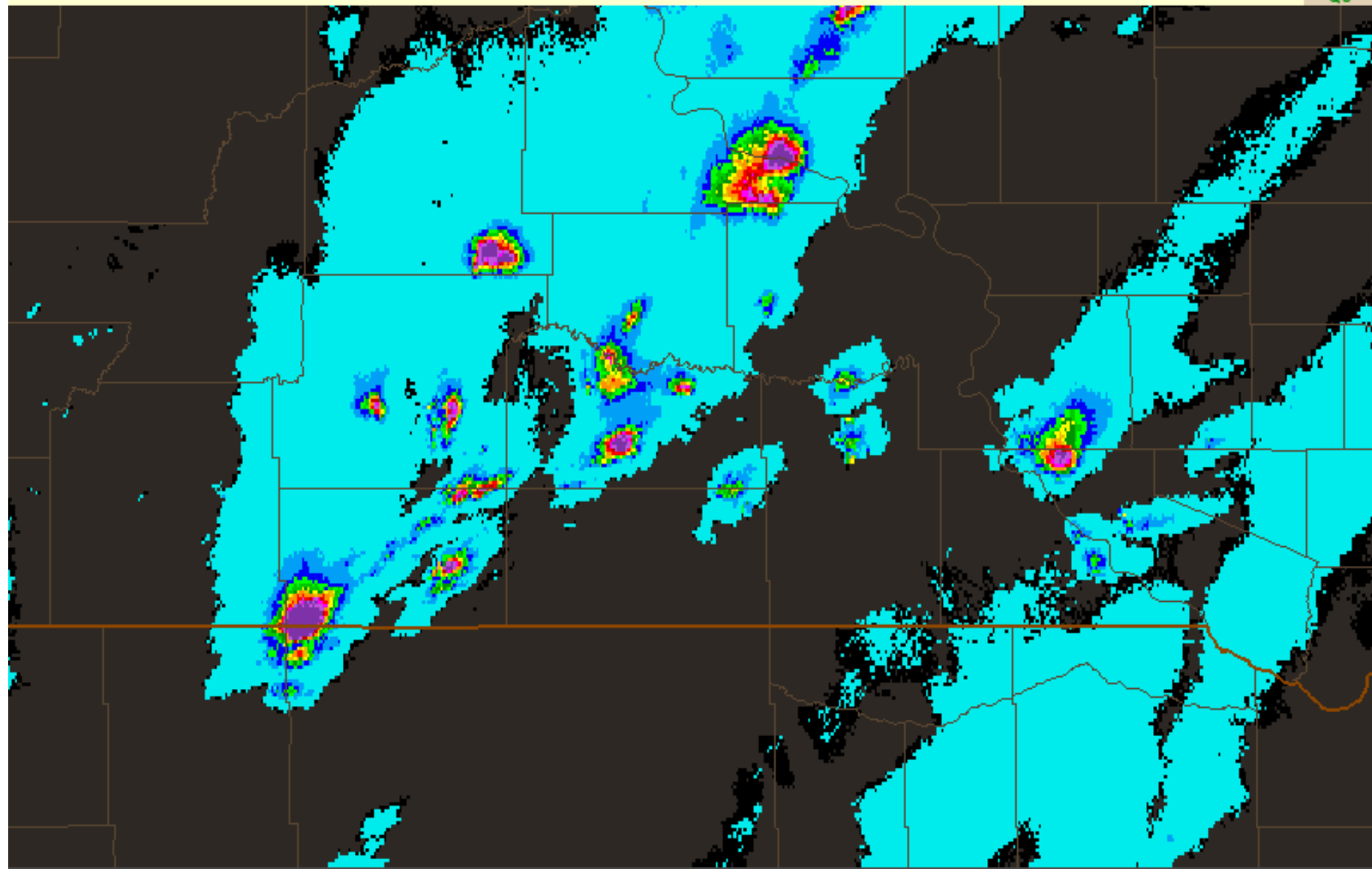


44.75
-103.16 42.32 -97.840

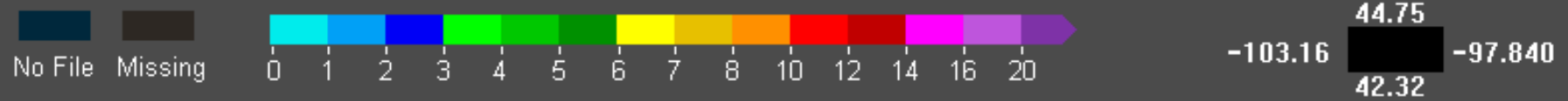
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:42:00 UTC



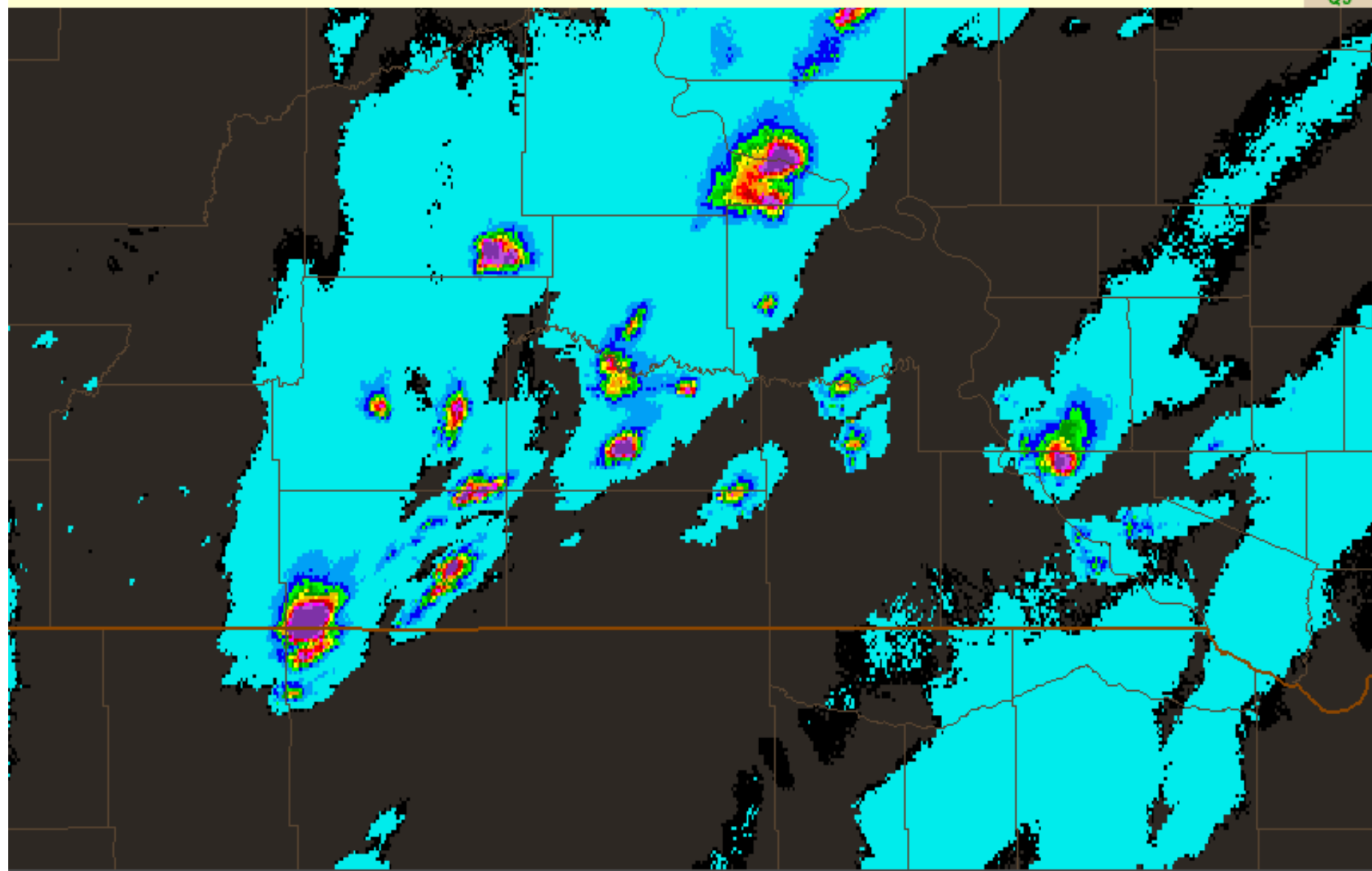
Volume Integrated Liquid [kg/m²]



Vertically Integrated Liquid

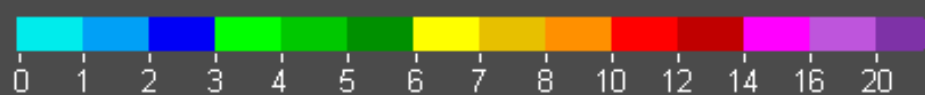
Derived From Mosaic3D

Valid: 08/12/2016 00:44:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing

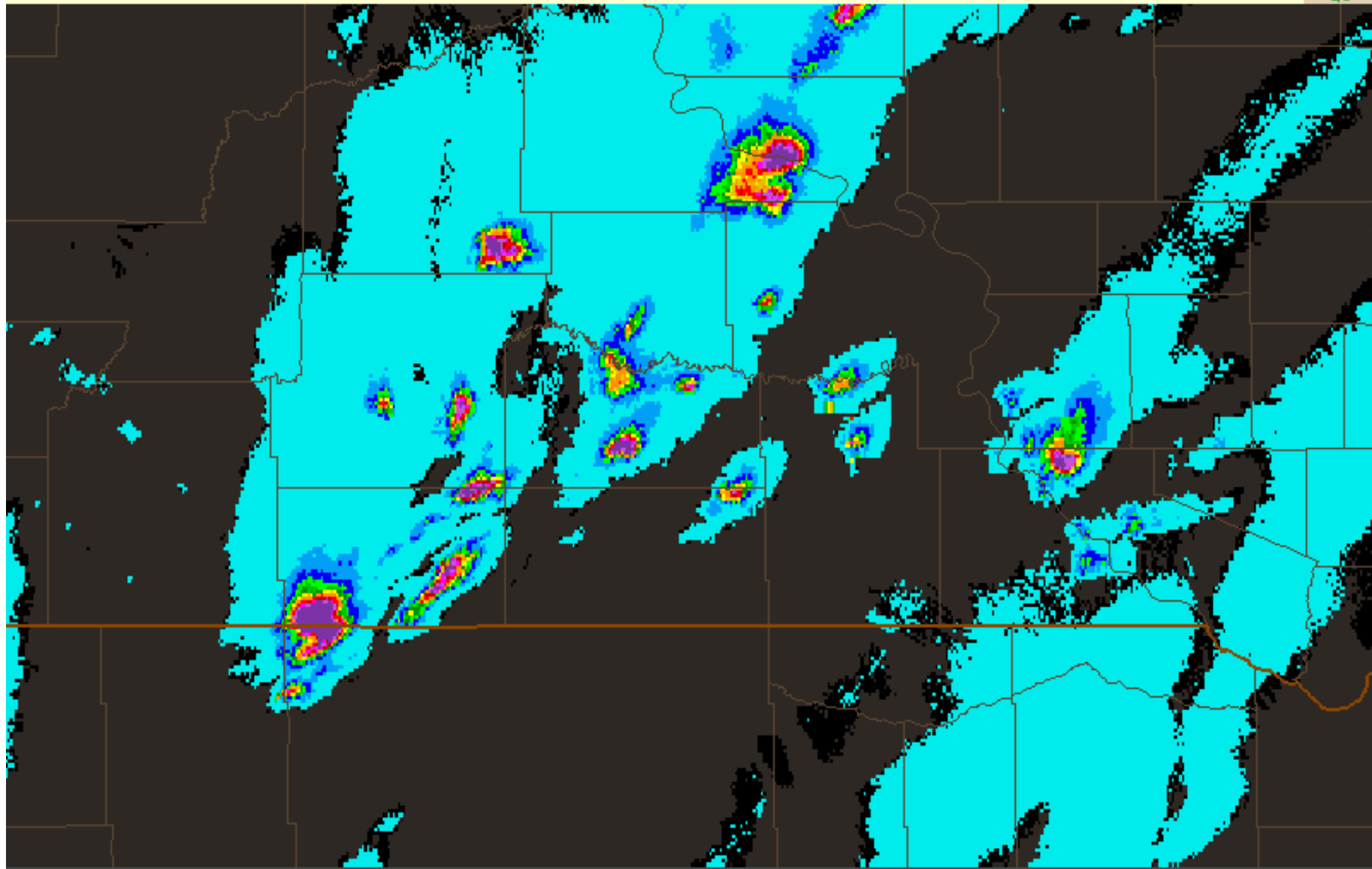


44.75
-103.16 42.32 -97.840

Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:46:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing



44.75
-103.16 42.32 -97.840

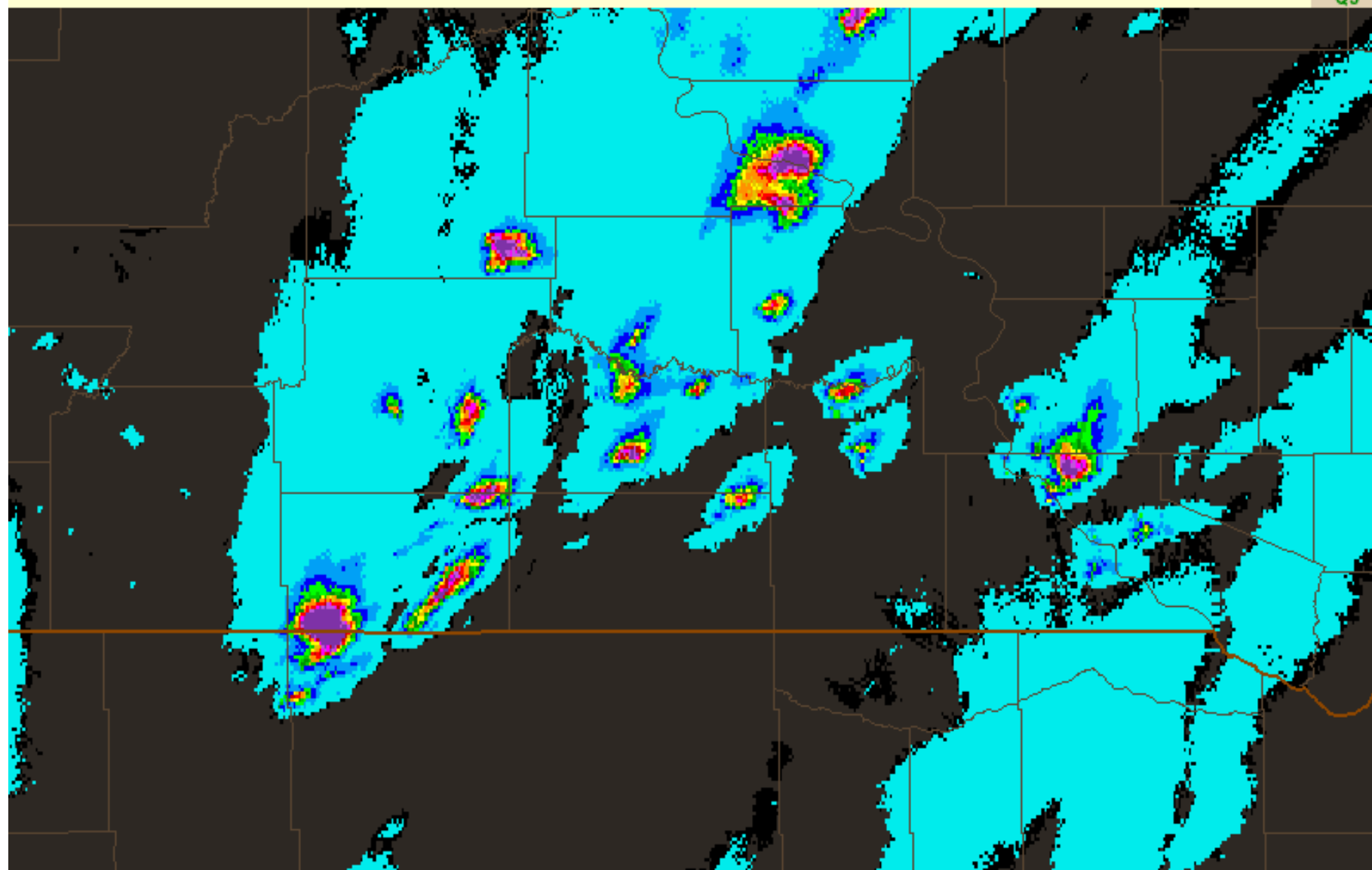
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:48:00 UTC

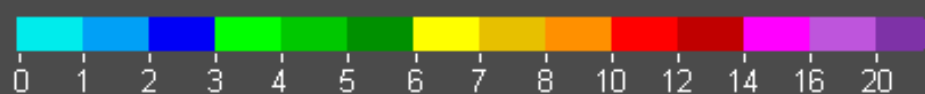


Q3



Volume Integrated Liquid [kg/m²]

No File Missing



44.75
-103.16 42.32 -97.840

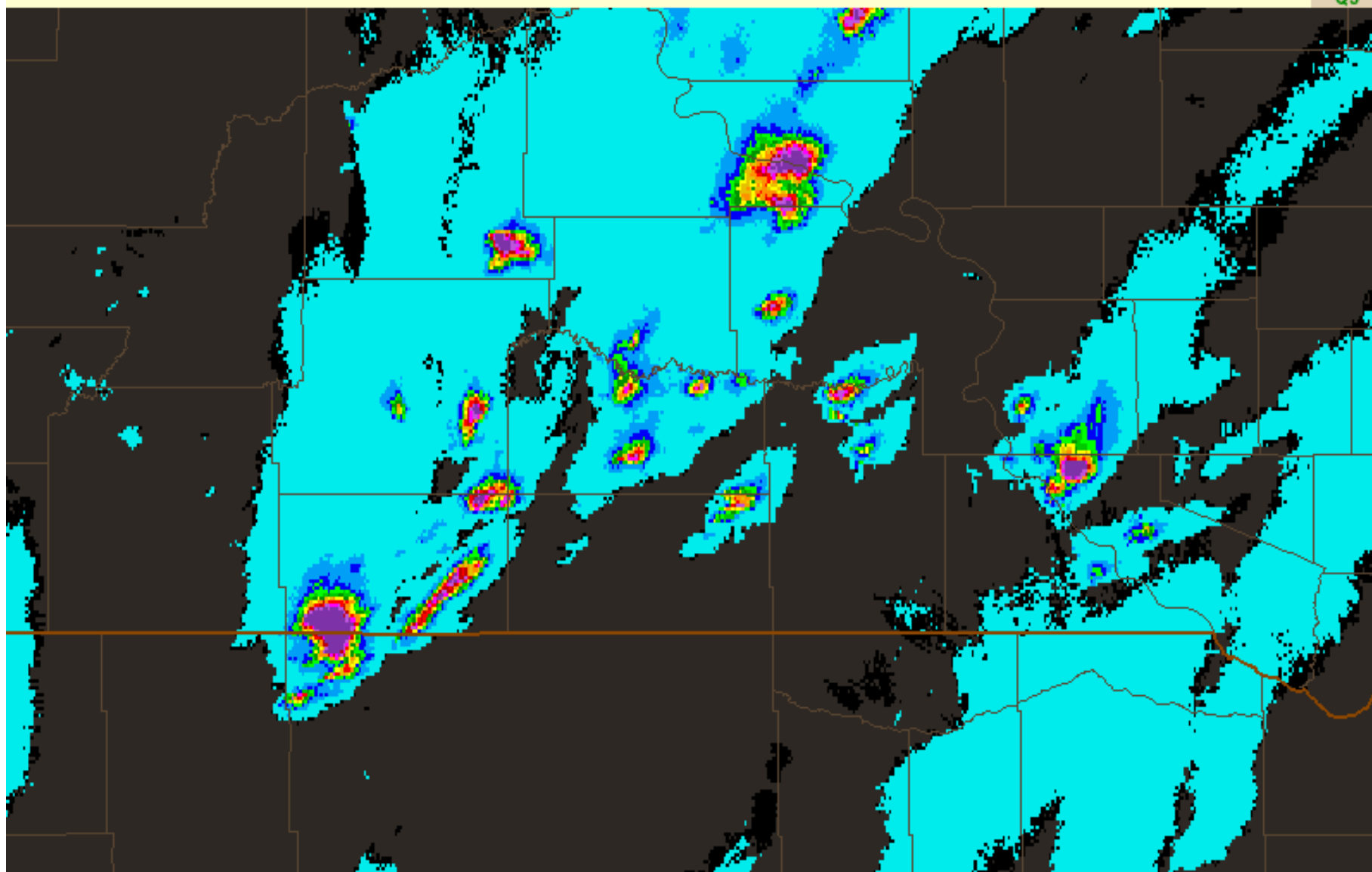
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:50:00 UTC

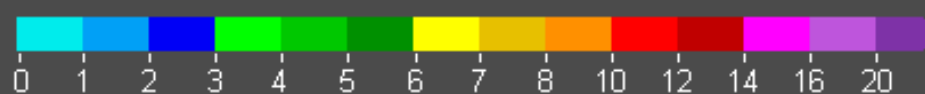


Q3



Volume Integrated Liquid [kg/m²]

No File Missing

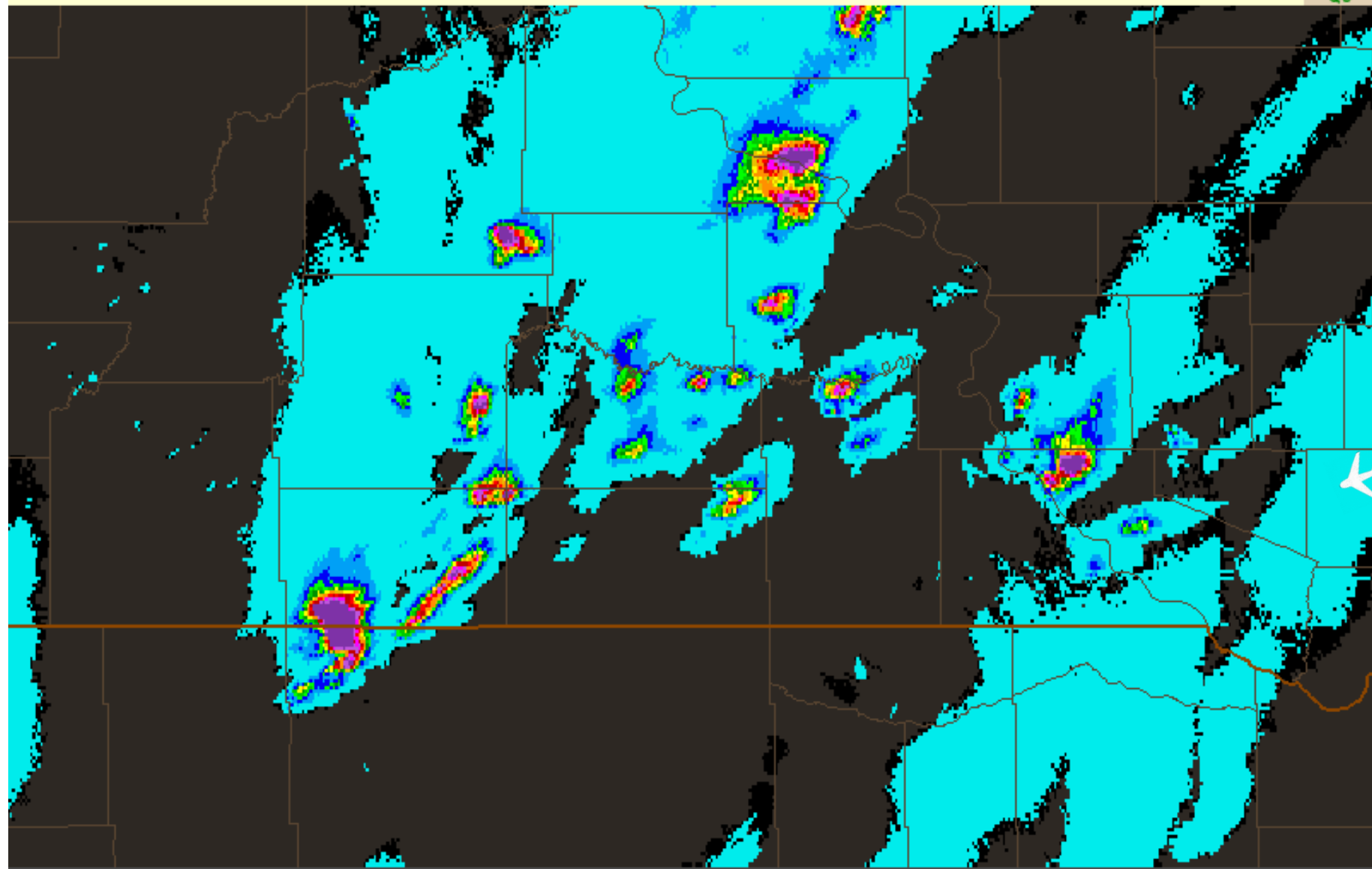


44.75
-103.16 42.32 -97.840

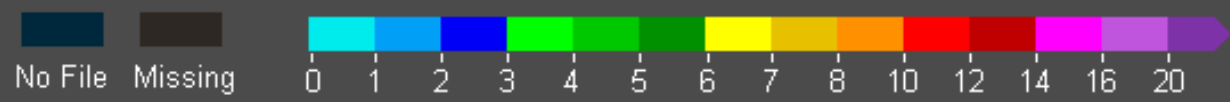
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:52:00 UTC



Volume Integrated Liquid [kg/m²]



44.75
-103.16 42.32 -97.840

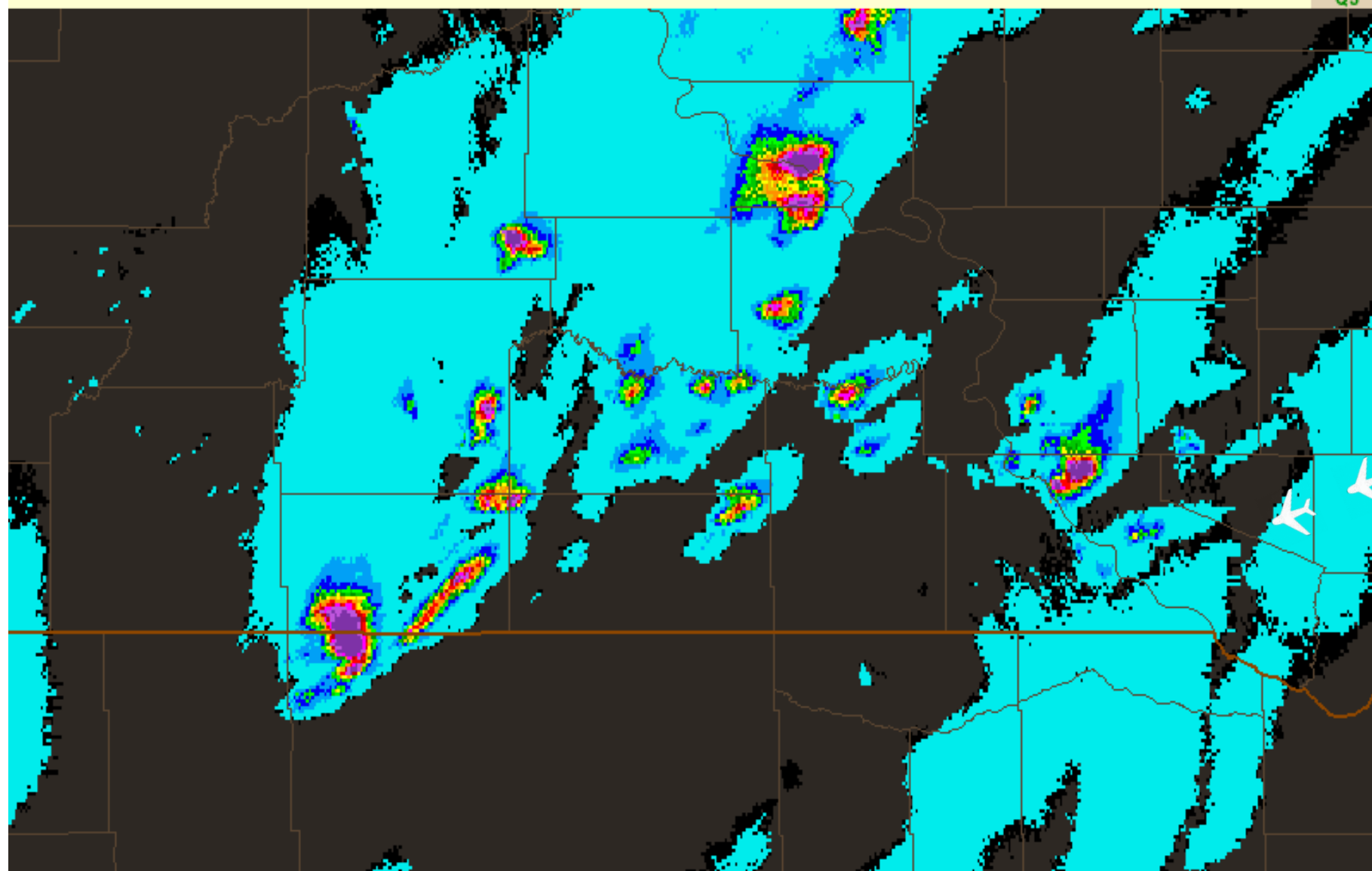
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:54:00 UTC

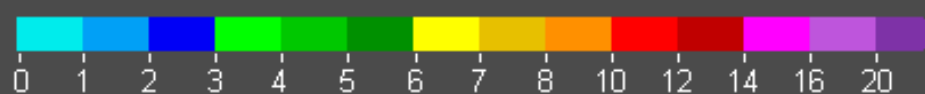


Q3



Volume Integrated Liquid [kg/m²]

No File Missing



44.75
-103.16 -97.840
42.32

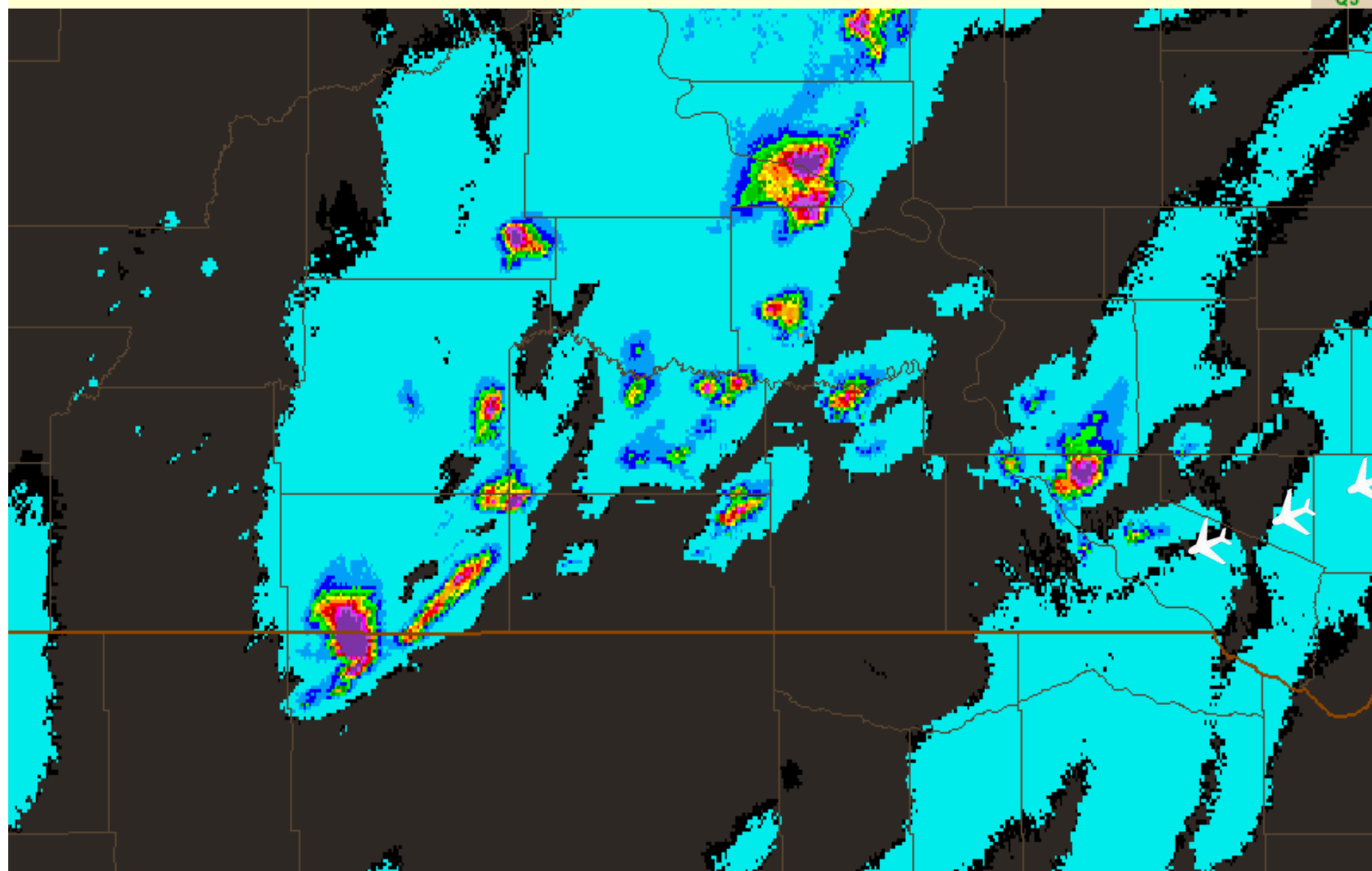
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:56:00 UTC

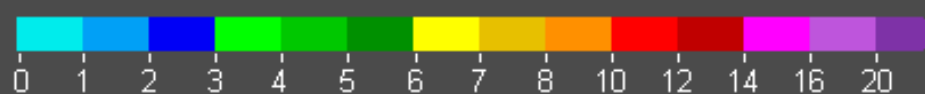


Q3



Volume Integrated Liquid [kg/m²]

No File Missing



44.75
-103.16 -97.840
42.32

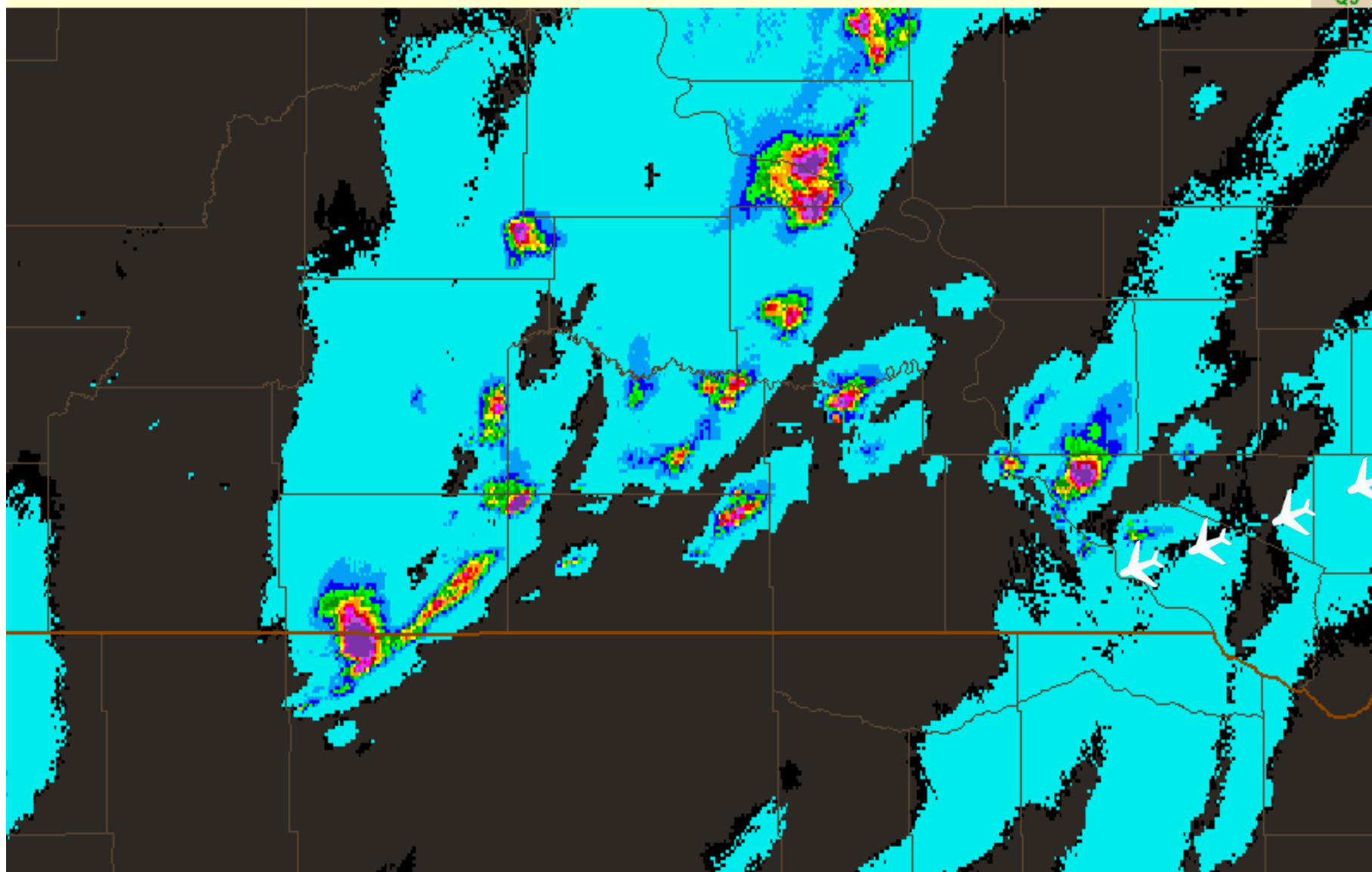
Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 00:58:00 UTC

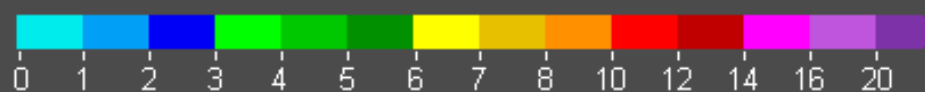


Q3



Volume Integrated Liquid [kg/m²]

No File Missing

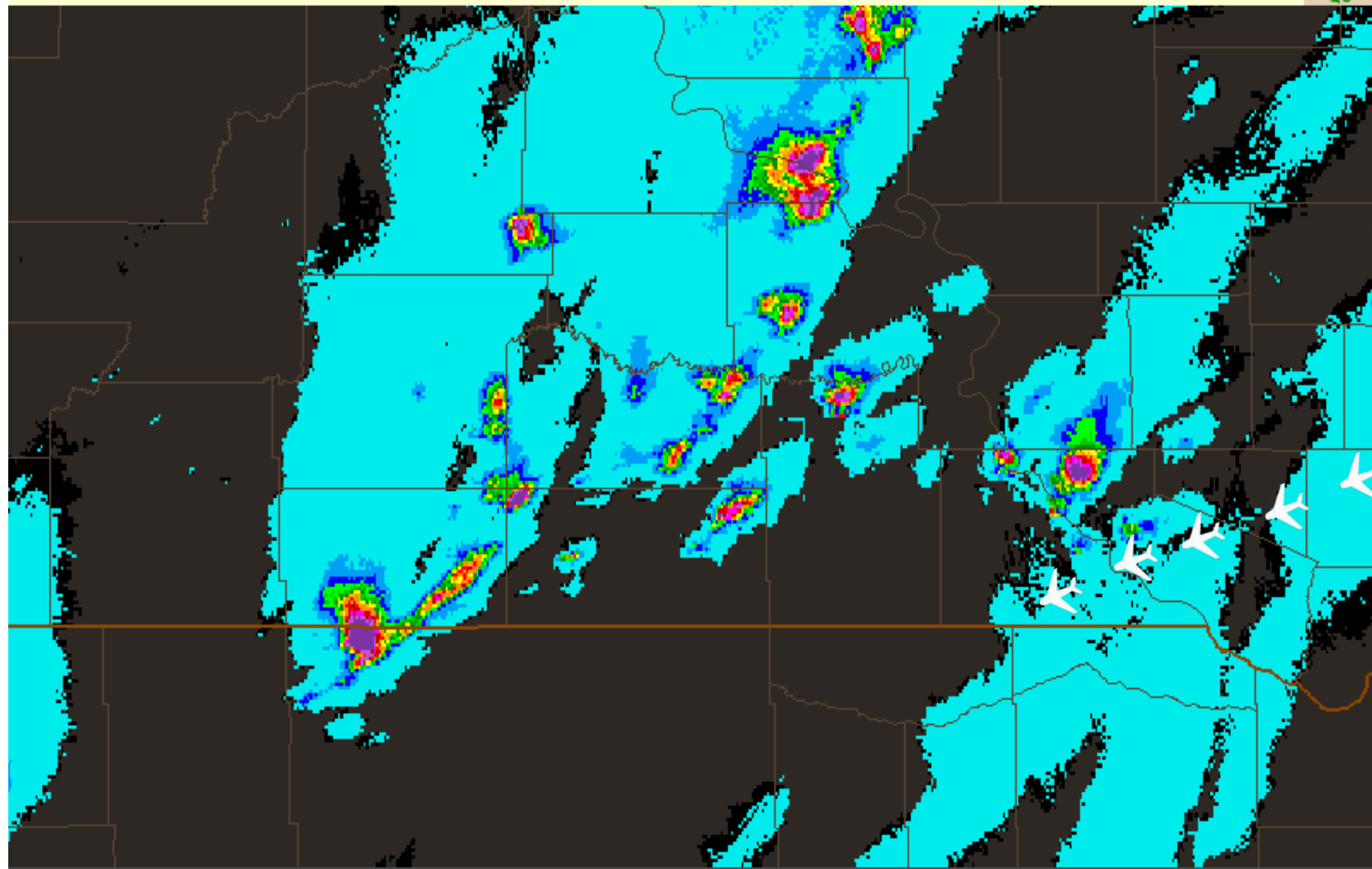


44.75
-103.16 42.32 -97.840

Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 01:00:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing

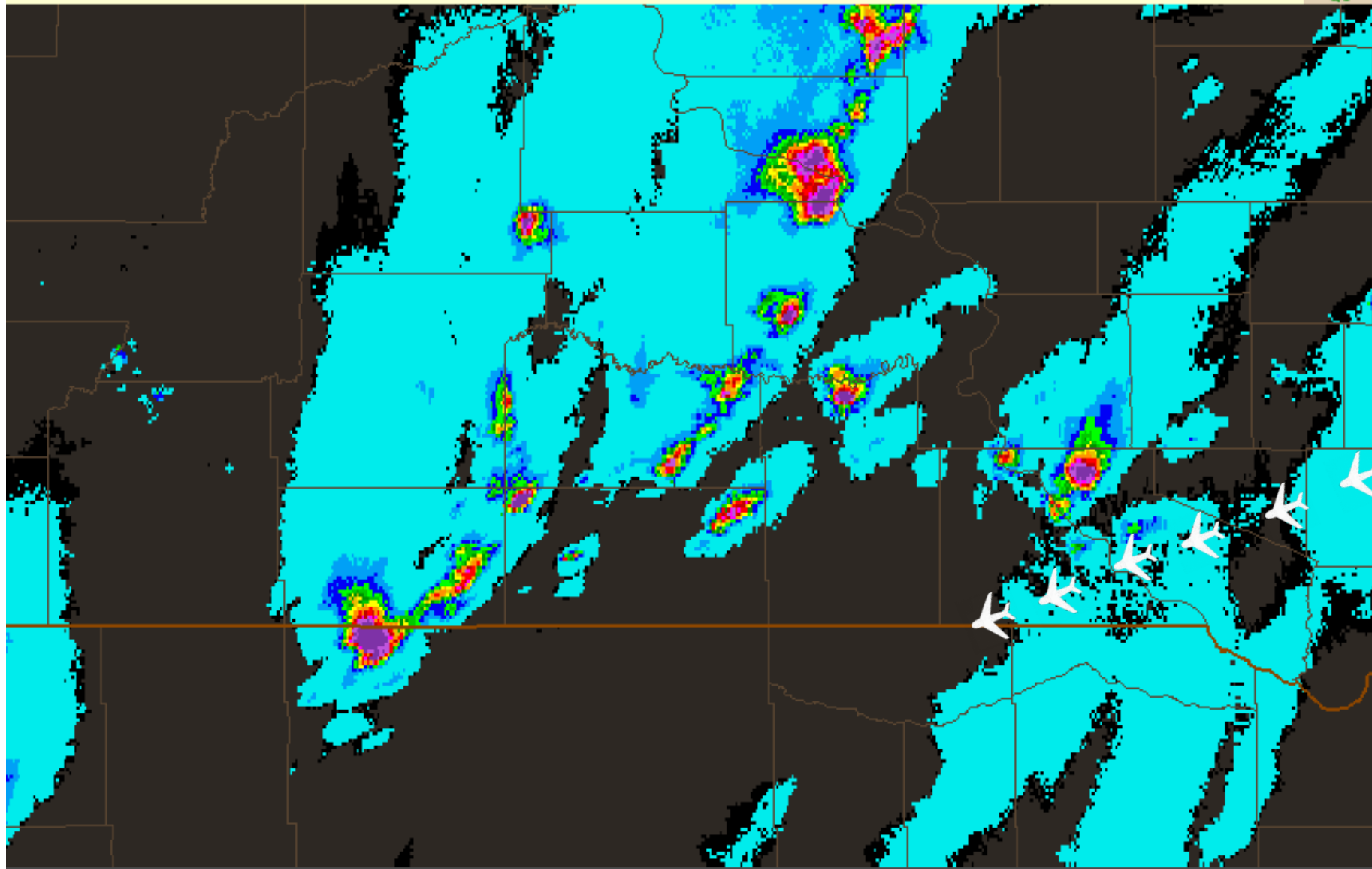


44.75
-103.16 42.32 -97.840

Vertically Integrated Liquid

Derived From Mosaic3D

Valid: 08/12/2016 01:02:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing

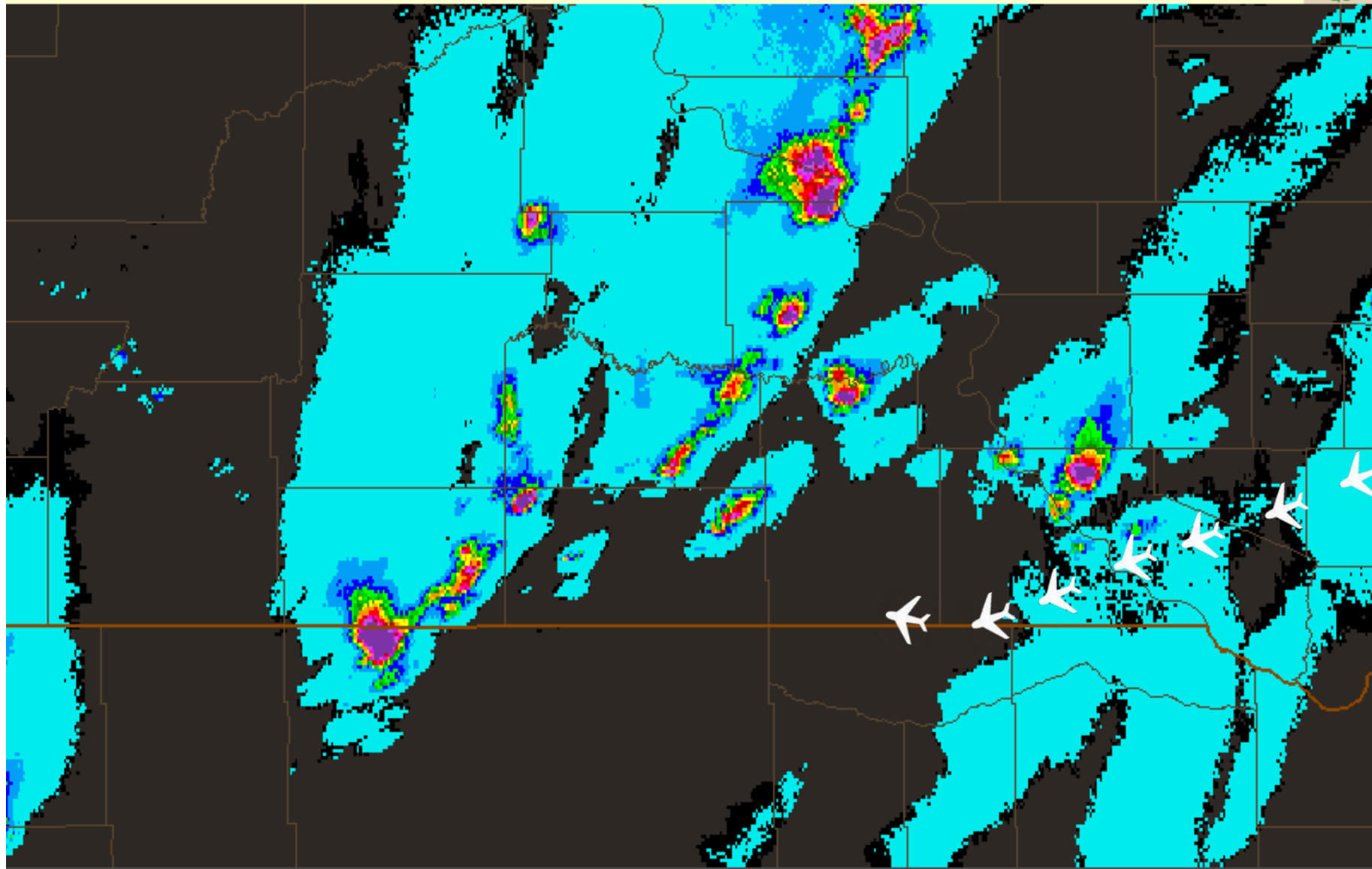


44.75
-103.16 42.32 -97.840

Vertically Integrated Liquid

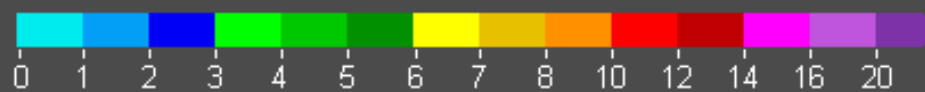
Derived From Mosaic3D

Valid: 08/12/2016 01:04:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing

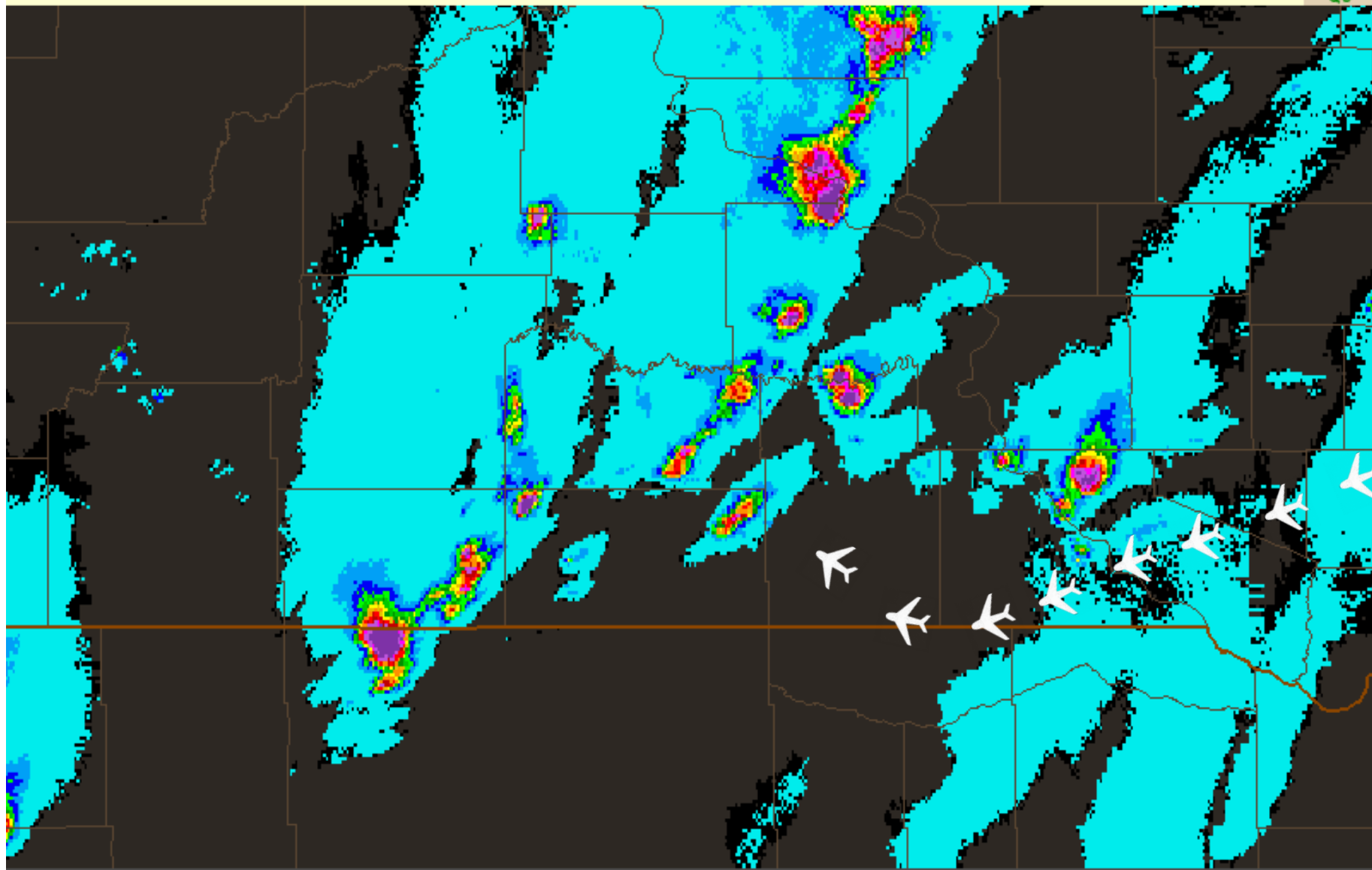


44.75
-103.16 42.32 -97.840

Vertically Integrated Liquid

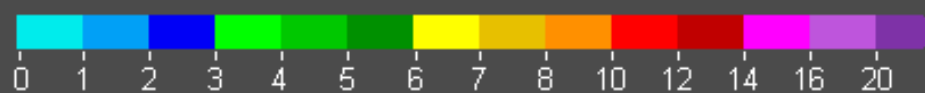
Derived From Mosaic3D

Valid: 08/12/2016 01:06:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing

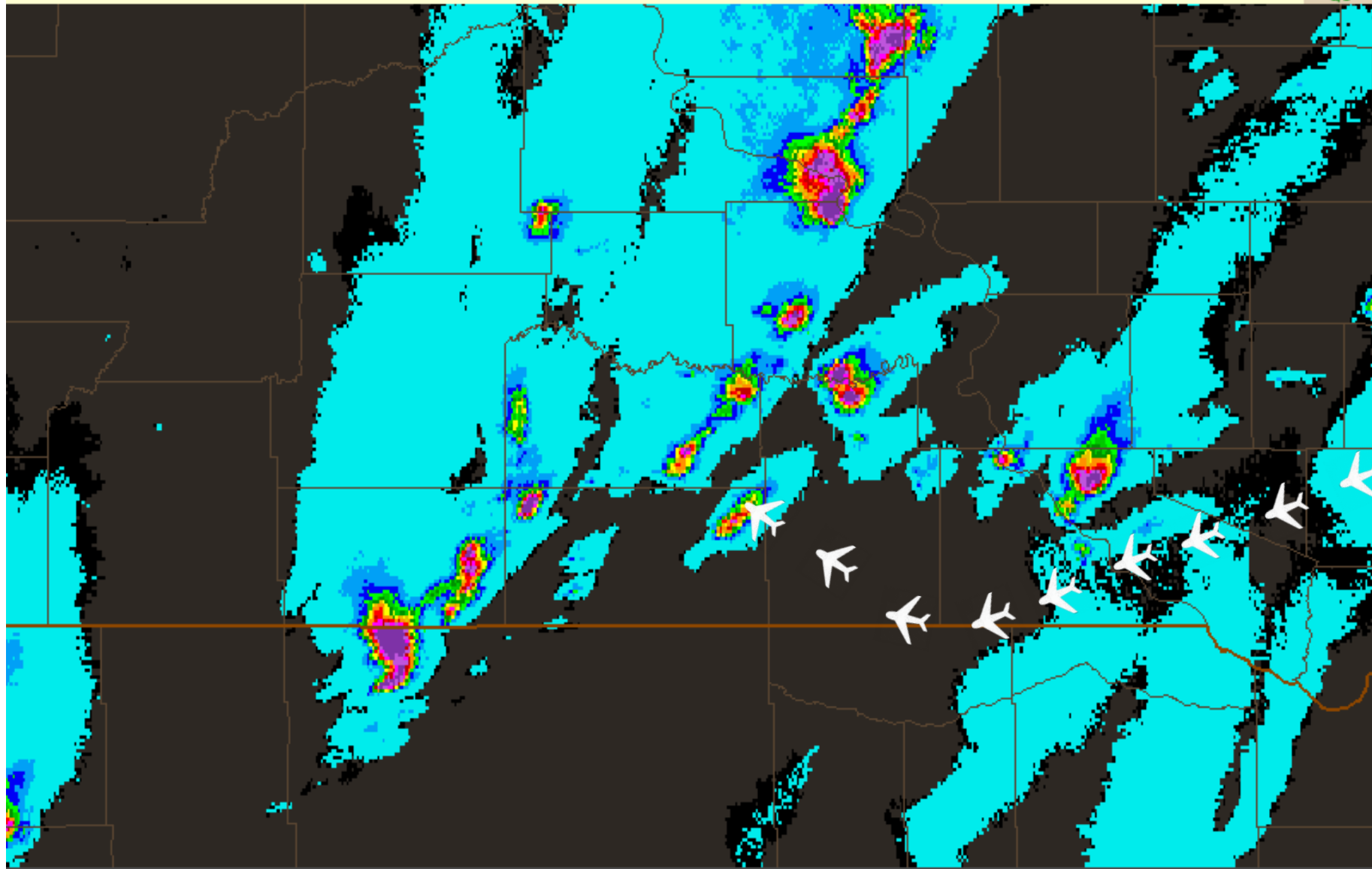


44.75
-103.16 42.32 -97.840

Vertically Integrated Liquid

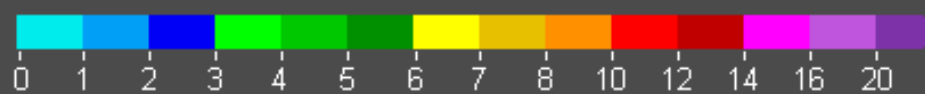
Derived From Mosaic3D

Valid: 08/12/2016 01:08:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing

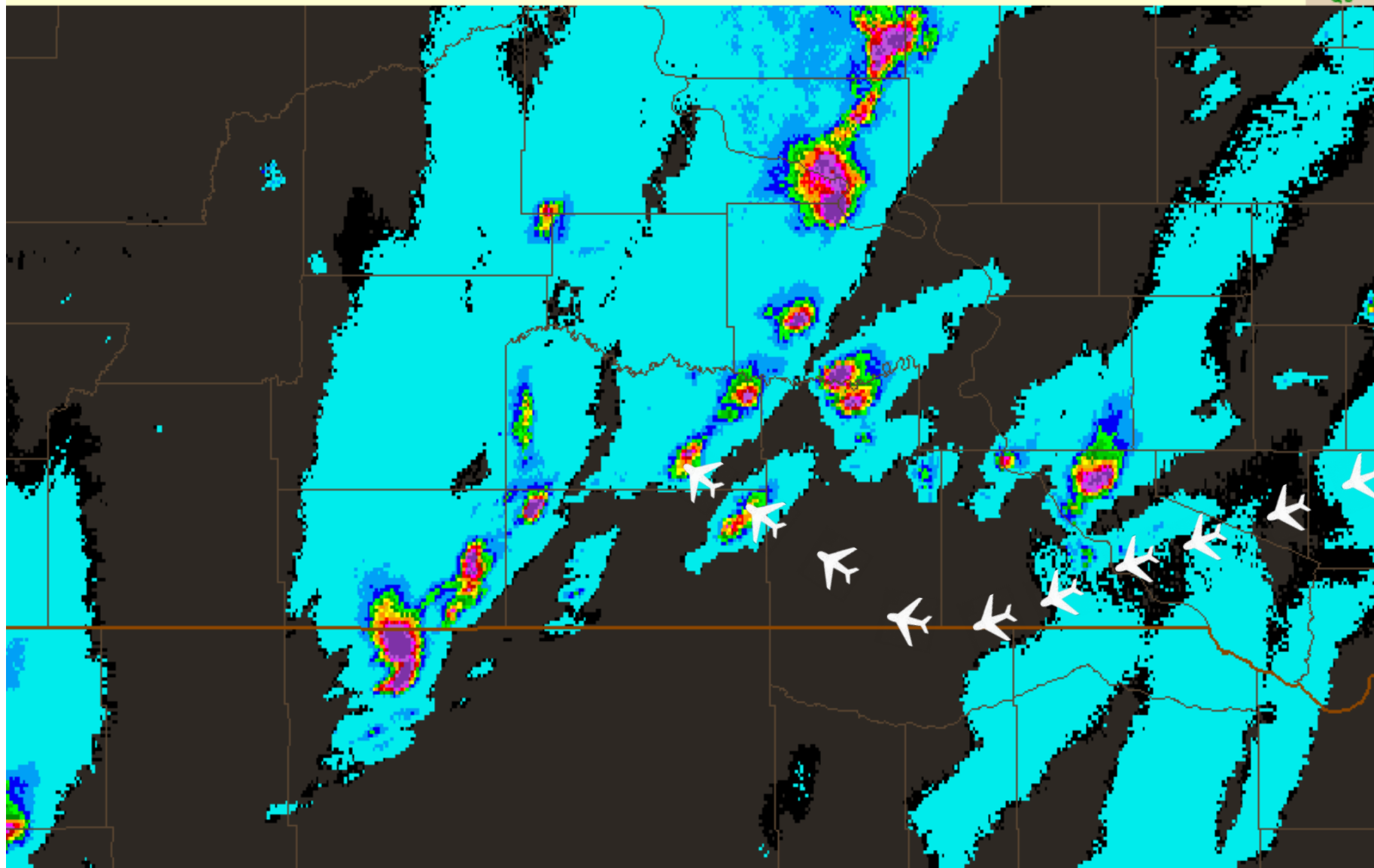


44.75
-103.16 42.32 -97.840

Vertically Integrated Liquid

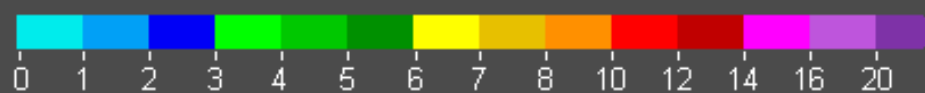
Derived From Mosaic3D

Valid: 08/12/2016 01:10:00 UTC



Volume Integrated Liquid [kg/m²]

No File Missing



44.75
-103.16 42.32 -97.840