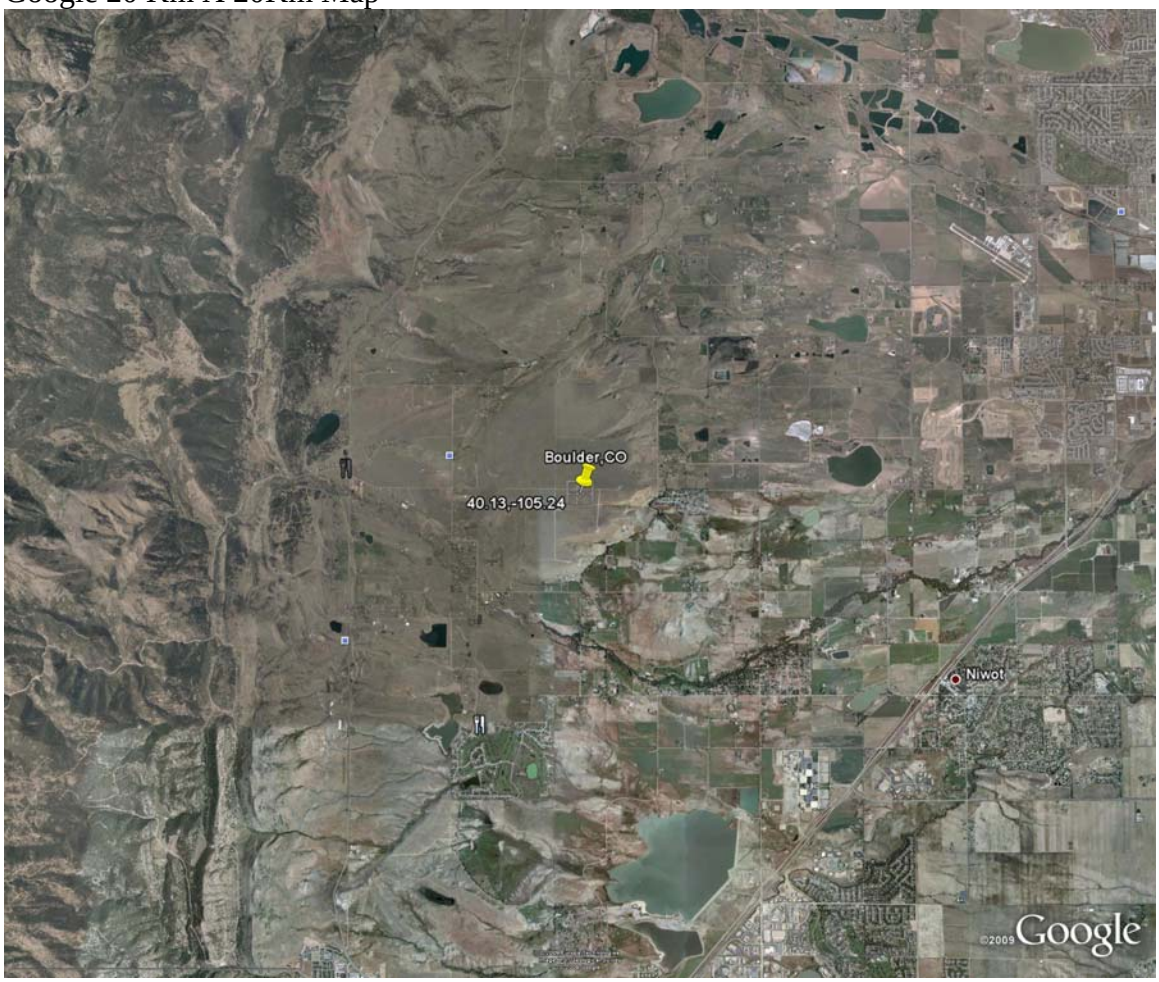
1. Available data and cloud screening at Boulder Surfrad station, CO

Year	Month	Day	Hr	Min	Clr/Cld
2000	6	1	18	16	Clear
2000	7	19	18	16	Cloud
2000	8	29	18	9	Clear
2000	11	25	5	19	Clear
2001	4	26	18	4	Cloud
2001	6	4	18	10	Cloud
2001	7	7	5	14	Cloud
2001	9	25	5	11	Clear
2001	10	27	5	10	Clear
2001	11	12	5	10	Cloud
2002	1	7	17	57	Cloud
2002	6	16	17	56	Cloud
2002	6	24	5	7	Clear
2002	7	9	18	2	Cloud
2003	7	21	17	53	Cloud
2003	7	28	18	0	Cloud
2003	9	23	17	54	Clear
2003	10	1	5	5	Clear
2003	12	12	17	55	Cloud
2004	10	18	18	0	Cloud
2004	11	28	17	53	Cloud
2005	4	6	4	59	Clear
2005	4	28	18	0	Cloud
2005	5	7	17	54	Cloud
2005	5	23	17	54	Cloud
2005	7	27	4	59	Cloud
2005	10	15	4	58	Clear
2005	10	22	5	5	Clear
2005	10	31	4	58	Clear
2006	4	25	4	59	Cloud
2006	5	2	5	5	Cloud
2006	10	1	17	54	Cloud
2007	6	30	17	54	Clear
2007	7	16	17	55	Cloud
2007	7	23	18	1	Cloud

2. Figures of ASTER Channel-14 BT (about 20KmX20Km)

Each image of pages 4-9 has 238 color levels between Max and Min of the selected area. So, topographic features may be identified from such images under clear-sky conditions.

Google 20 Km X 20Km Map

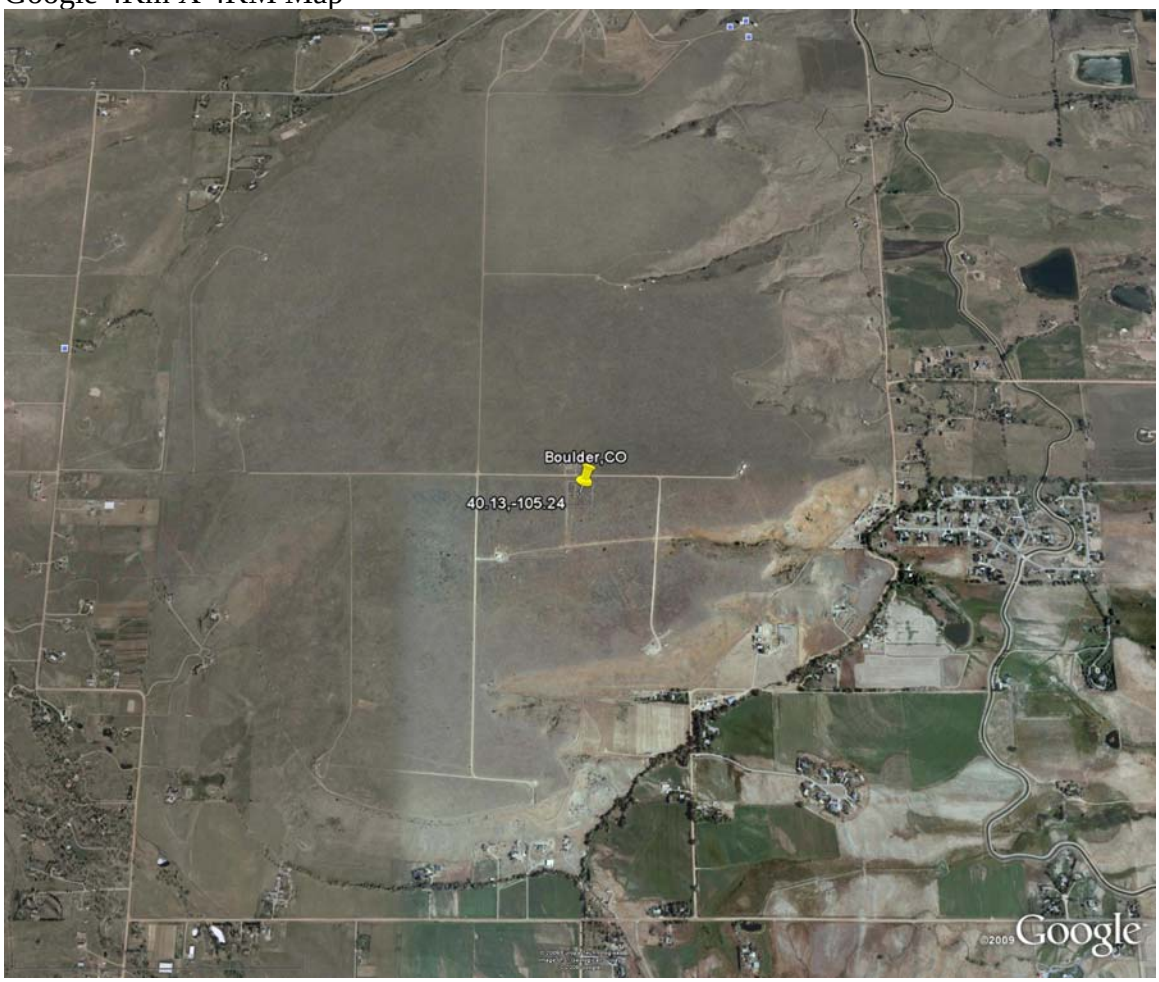


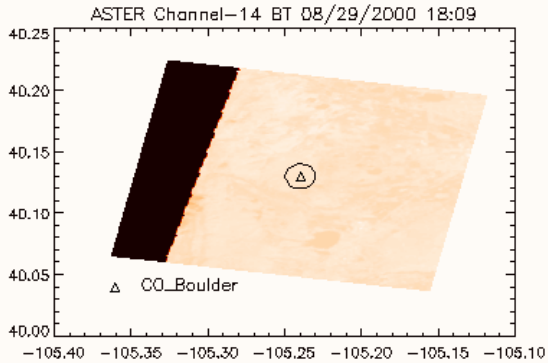
3. Figures of ASTER Channel-14 BT used for augmented cloud screening

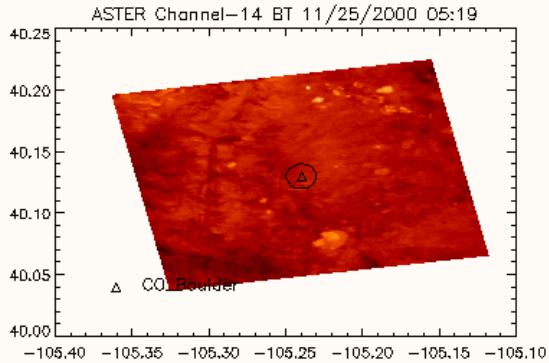
The images of pages 10-15 are used for the purpose of cloud screening. The image size is about 4KmX 4Km. The circle size is about 1Km, which is about the surrounding area used to generate the 1Km synthetic pixels.

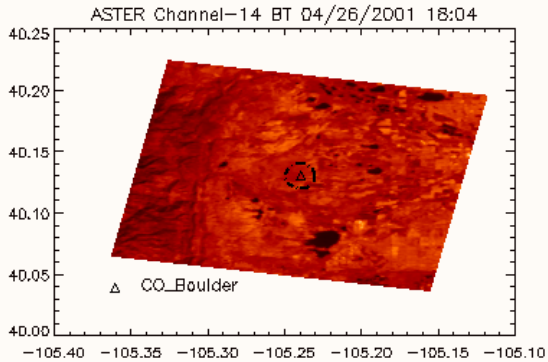
- Images without circle mark indicate both original ASTER cloud mask data and additional cloud screening show the cases as the cloudy ones.
- Images with dotted circle mark indicate the original ASTER cloud mask data show the cases as the cloudy ones, but additional cloud screening doesn't.
- Images with solid circle mark indicate both original ASTER cloud mask data and additional cloud screening show the cases as the clear ones.

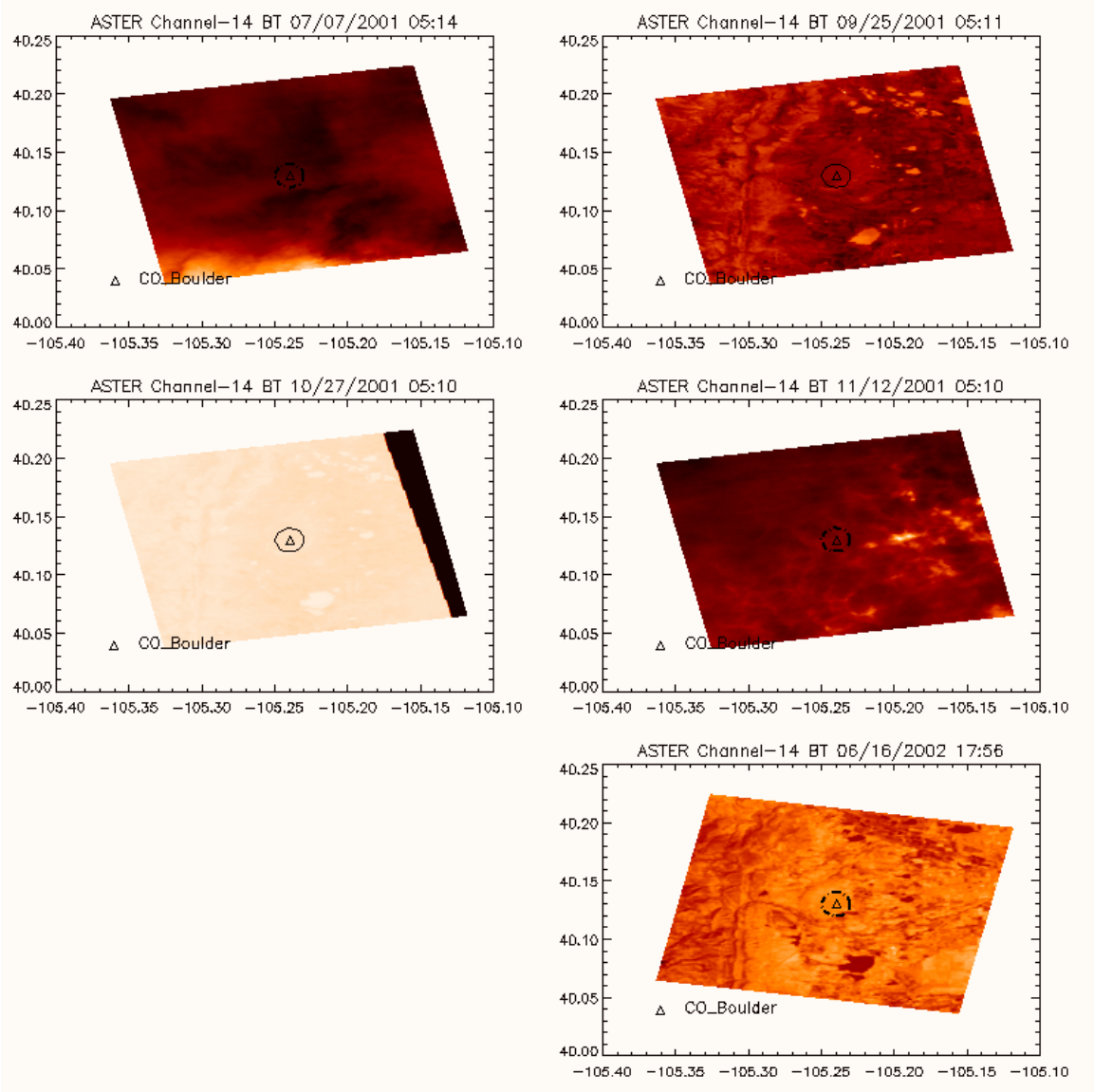
Google 4Km X 4KM Map

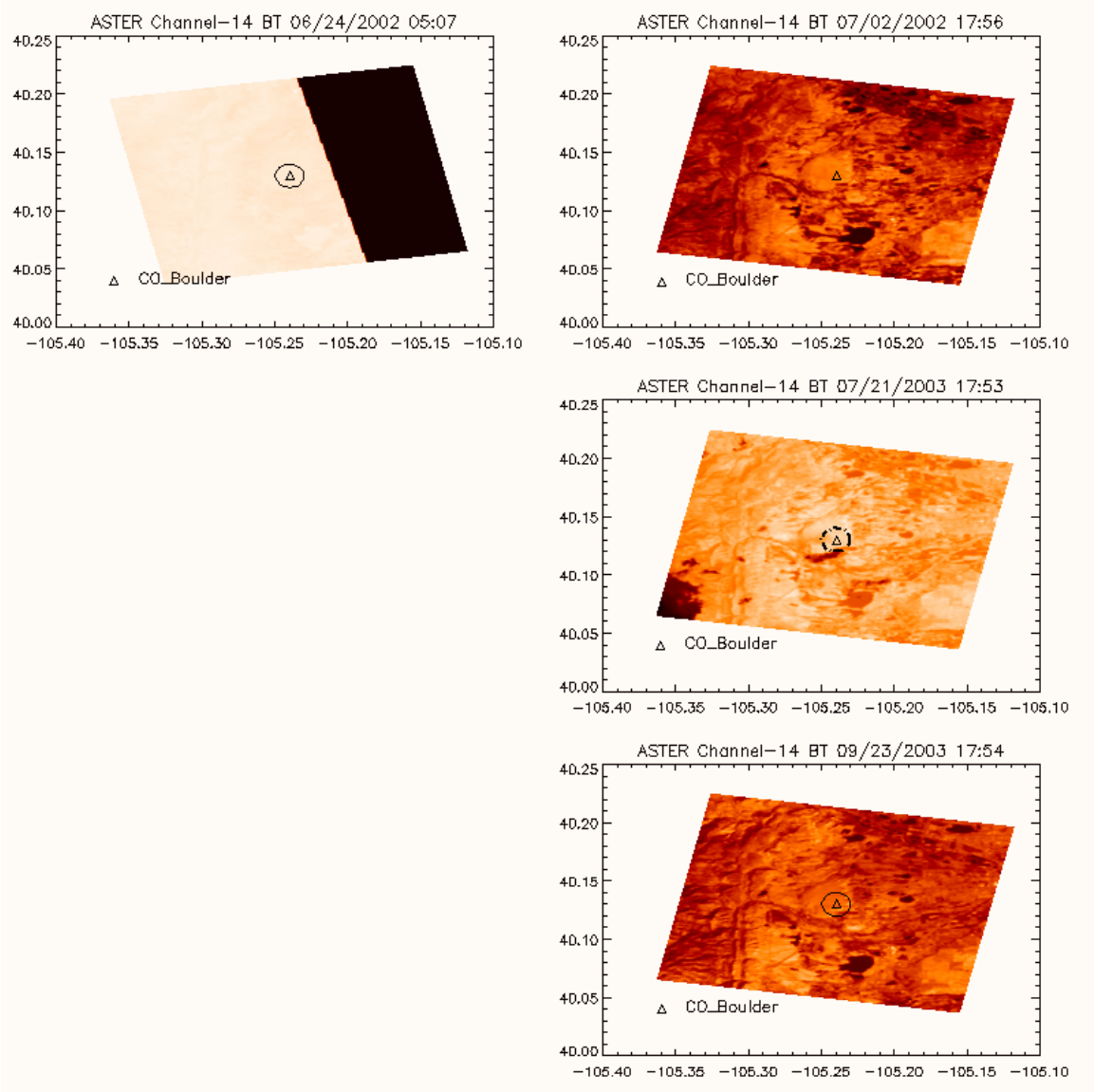


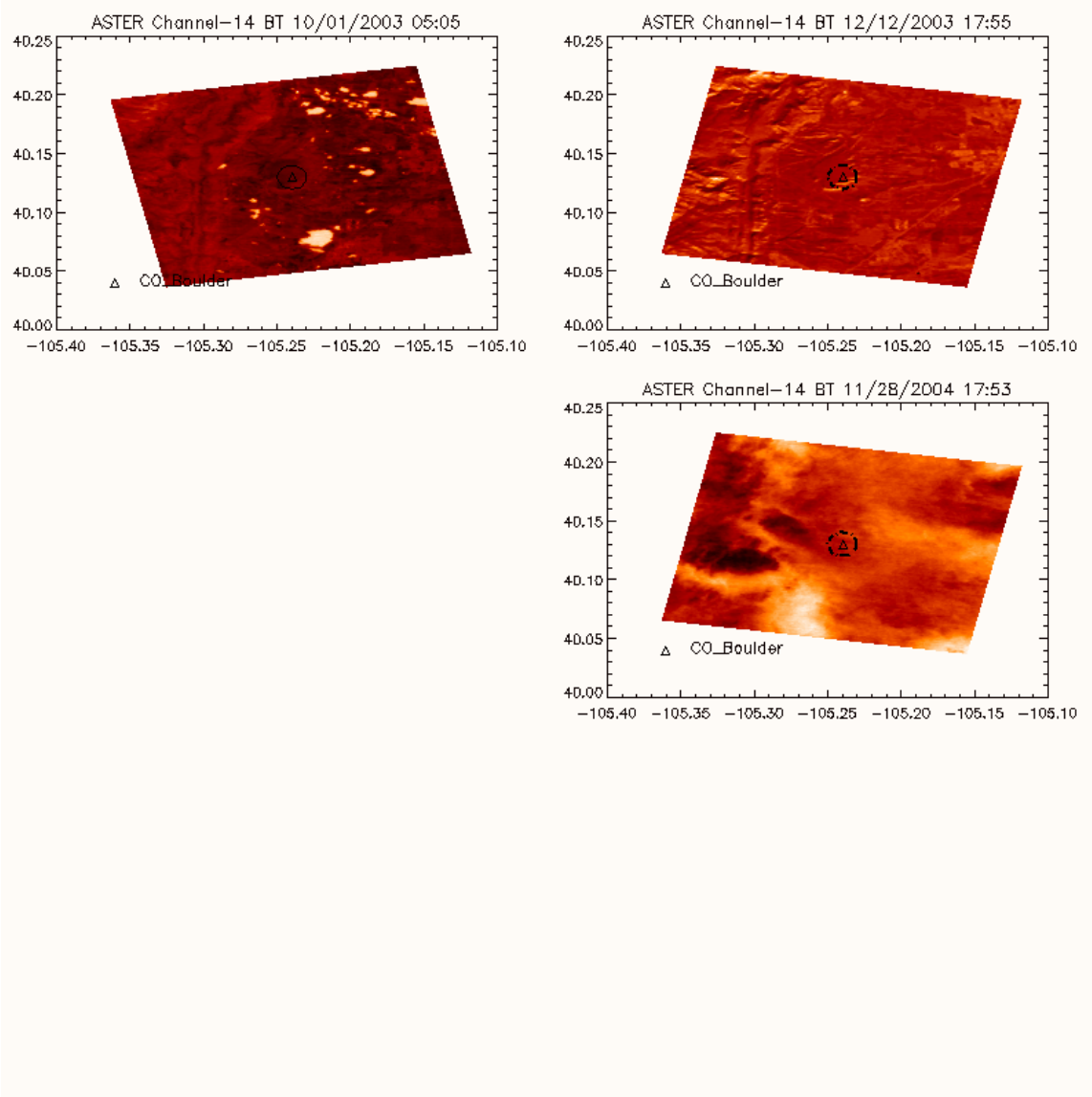

ASTER Channel−14 BT 08/29/2000 18:09
40.25
40.20
40.15
40.10
40.05
40.00
−105.40 −105.35 −105.30 −105.25 −105.20 −105.15 −105.10
CO_Boulder

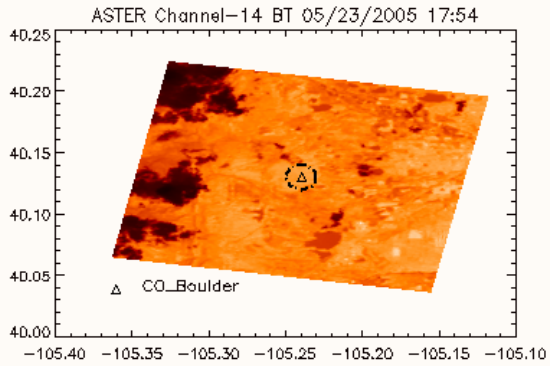

ASTER Channel−14 BT 11/25/2000 05:19
40.25
40.20
40.15
40.10
40.05
40.00
−105.40 −105.35 −105.30 −105.25 −105.20 −105.15 −105.10
CO_Boulder

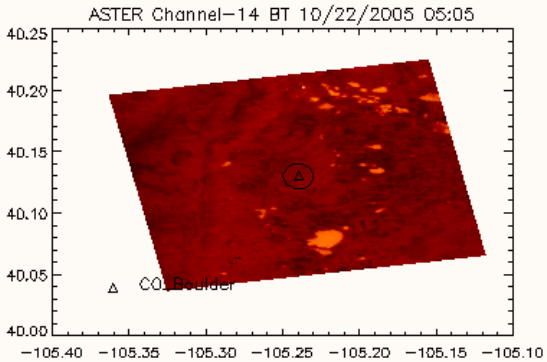

ASTER Channel−14 BT 04/26/2001 18:04
40.25
40.20
40.15
40.10
40.05
40.00
−105.40 −105.35 −105.30 −105.25 −105.20 −105.15 −105.10
CO_Boulder

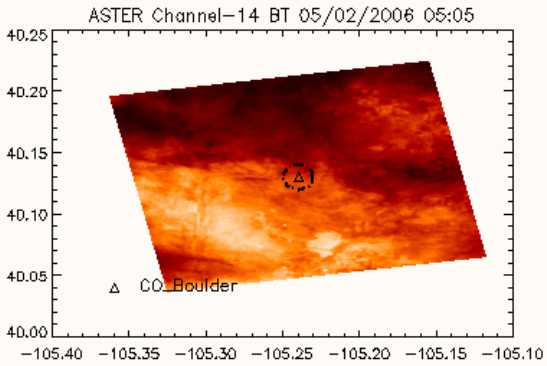

ASTER Channel−14 BT 07/07/2001 05:14
ASTER Channel−14 BT 09/25/2001 05:11
ASTER Channel−14 BT 10/27/2001 05:10
ASTER Channel−14 BT 11/12/2001 05:10
ASTER Channel−14 BT 06/16/2002 17:56
CO_Boulder
40.25
40.20
40.15
40.10
40.05
40.00
−105.40
−105.35
−105.30
−105.25
−105.20
−105.15
−105.10

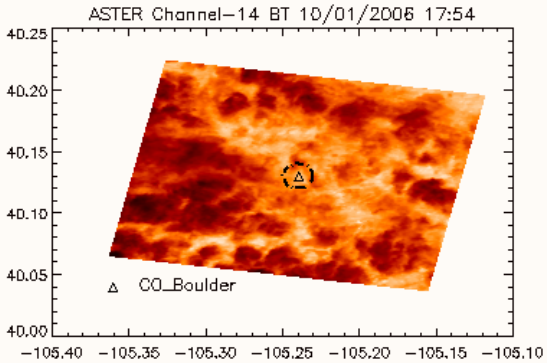

ASTER Channel−14 BT 06/24/2002 05:07
ASTER Channel−14 BT 07/02/2002 17:56
ASTER Channel−14 BT 07/21/2003 17:53
ASTER Channel−14 BT 09/23/2003 17:54
CO_Boulder
40.25
40.20
40.15
40.10
40.05
40.00
−105.40
−105.35
−105.30
−105.25
−105.20
−105.15
−105.10

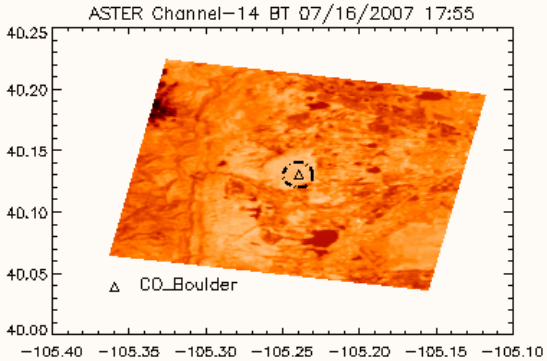

ASTER Channel-14 BT 10/01/2003 05:05
ASTER Channel-14 BT 12/12/2003 17:55
ASTER Channel-14 BT 11/28/2004 17:53
CO_Boulder
CO_Boulder
CO_Boulder
40.25
40.20
40.15
40.10
40.05
40.00
-105.40
-105.35
-105.30
-105.25
-105.20
-105.15
-105.10

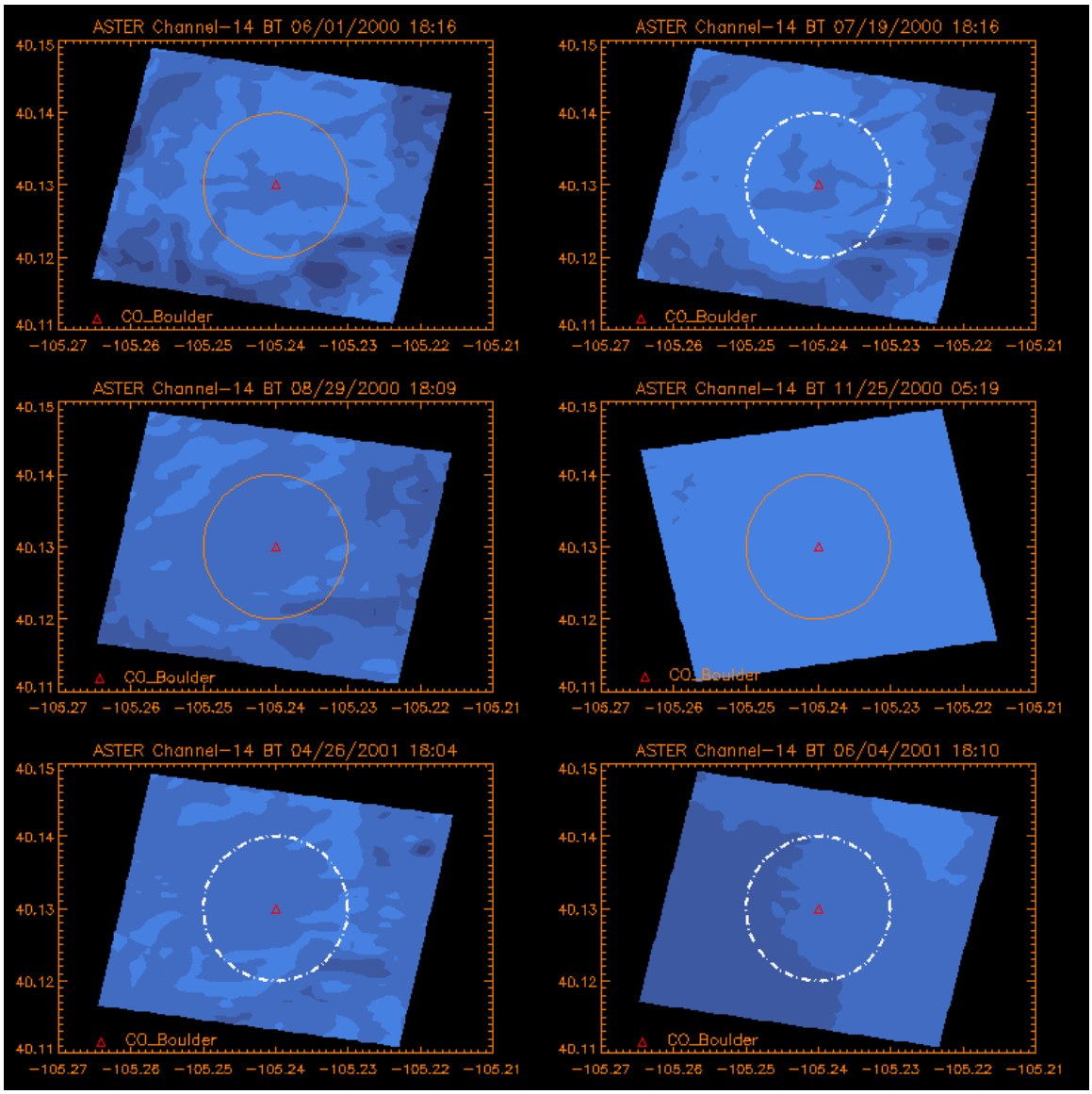

ASTER Channel-14 BT 05/23/2005 17:54
40.25
40.20
40.15
40.10
40.05
40.00
-105.40 -105.35 -105.30 -105.25 -105.20 -105.15 -105.10
CO_Boulder

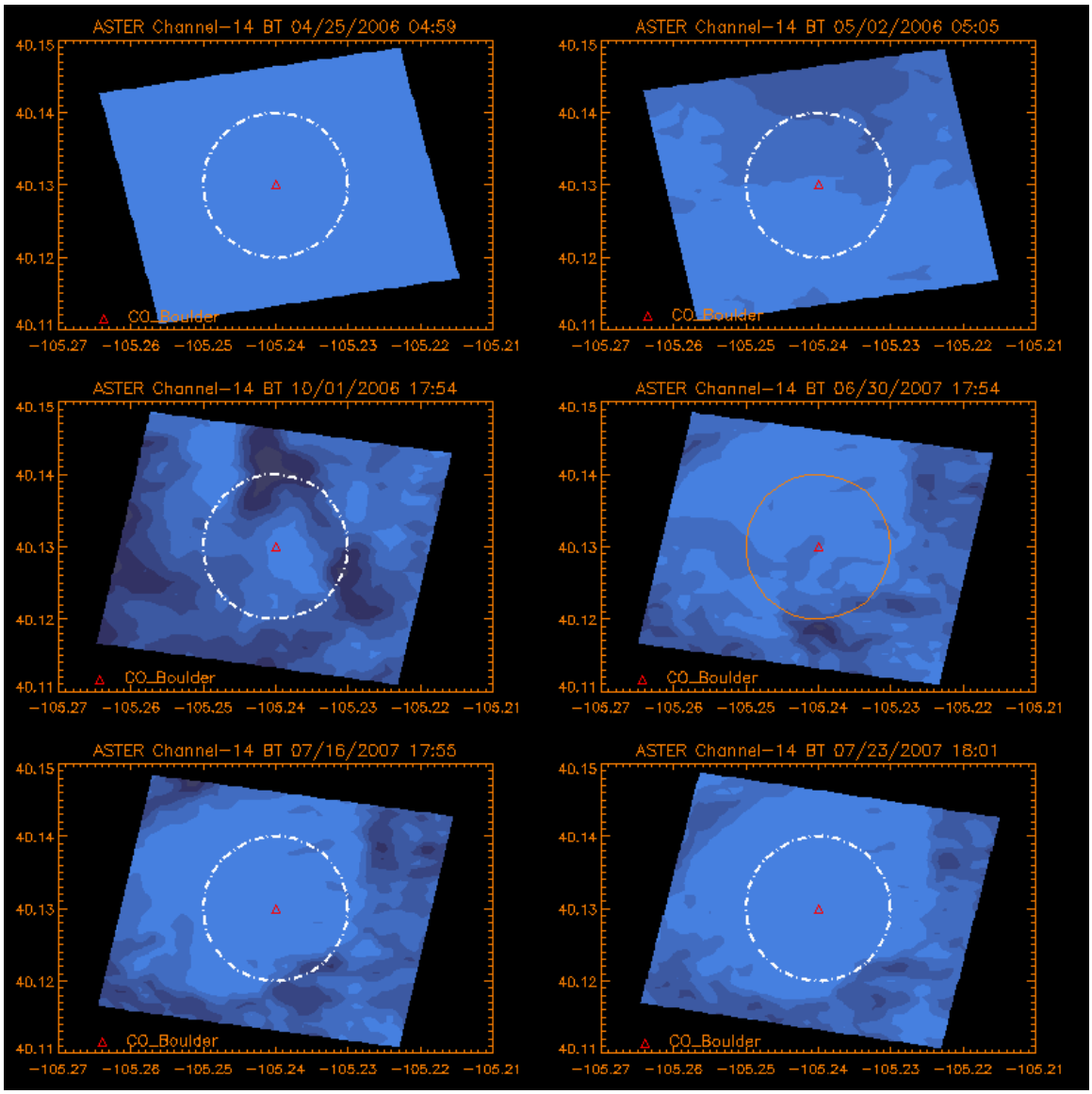

ASTER Channel-14 BT 10/22/2005 05:05
40.25
40.20
40.15
40.10
40.05
40.00
-105.40 -105.35 -105.30 -105.25 -105.20 -105.15 -105.10
CO_Boulder

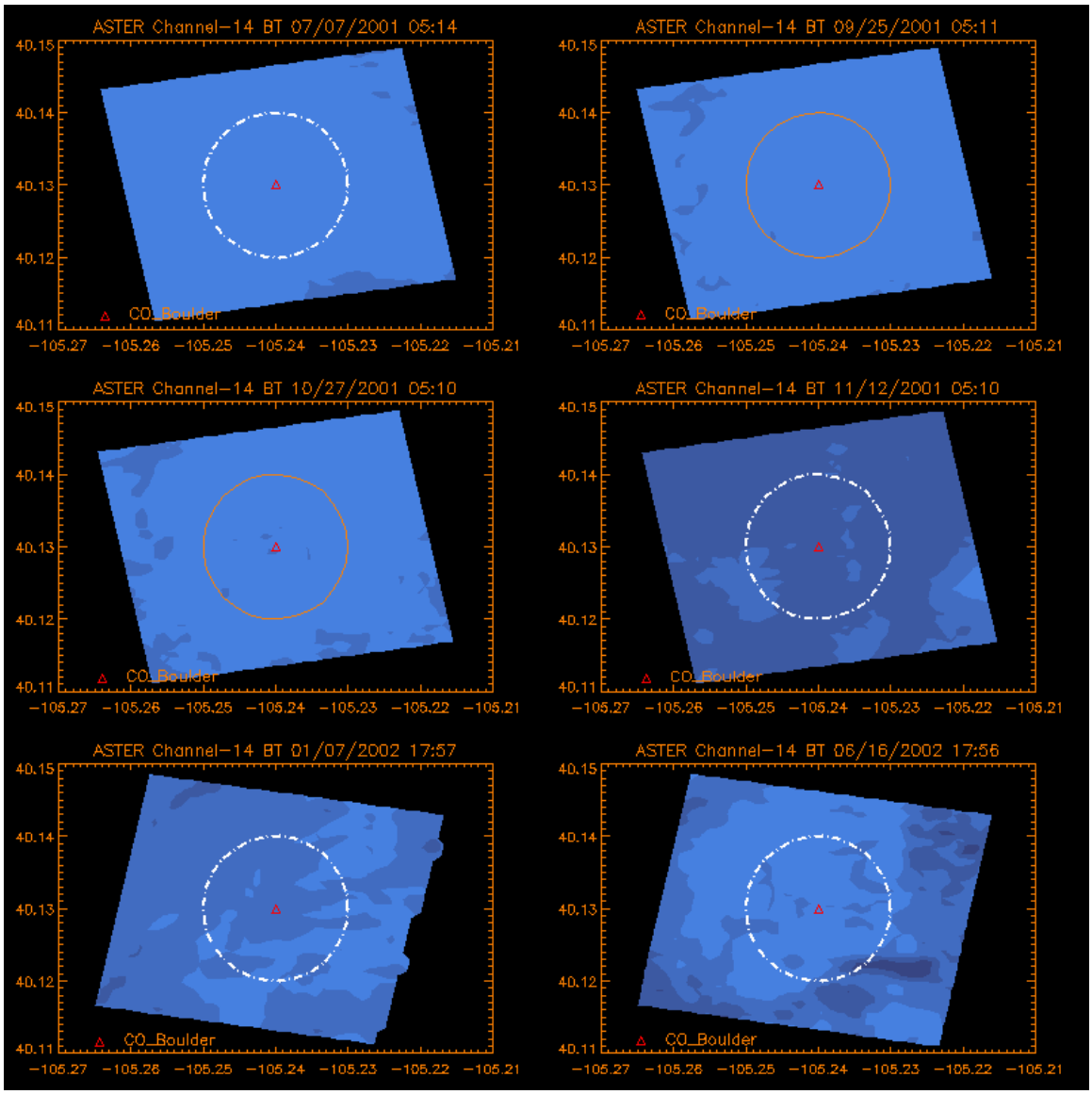

ASTER Channel−14 BT 05/02/2006 05:05
40.25
40.20
40.15
40.10
40.05
40.00
−105.40 −105.35 −105.30 −105.25 −105.20 −105.15 −105.10
CO_Boulder

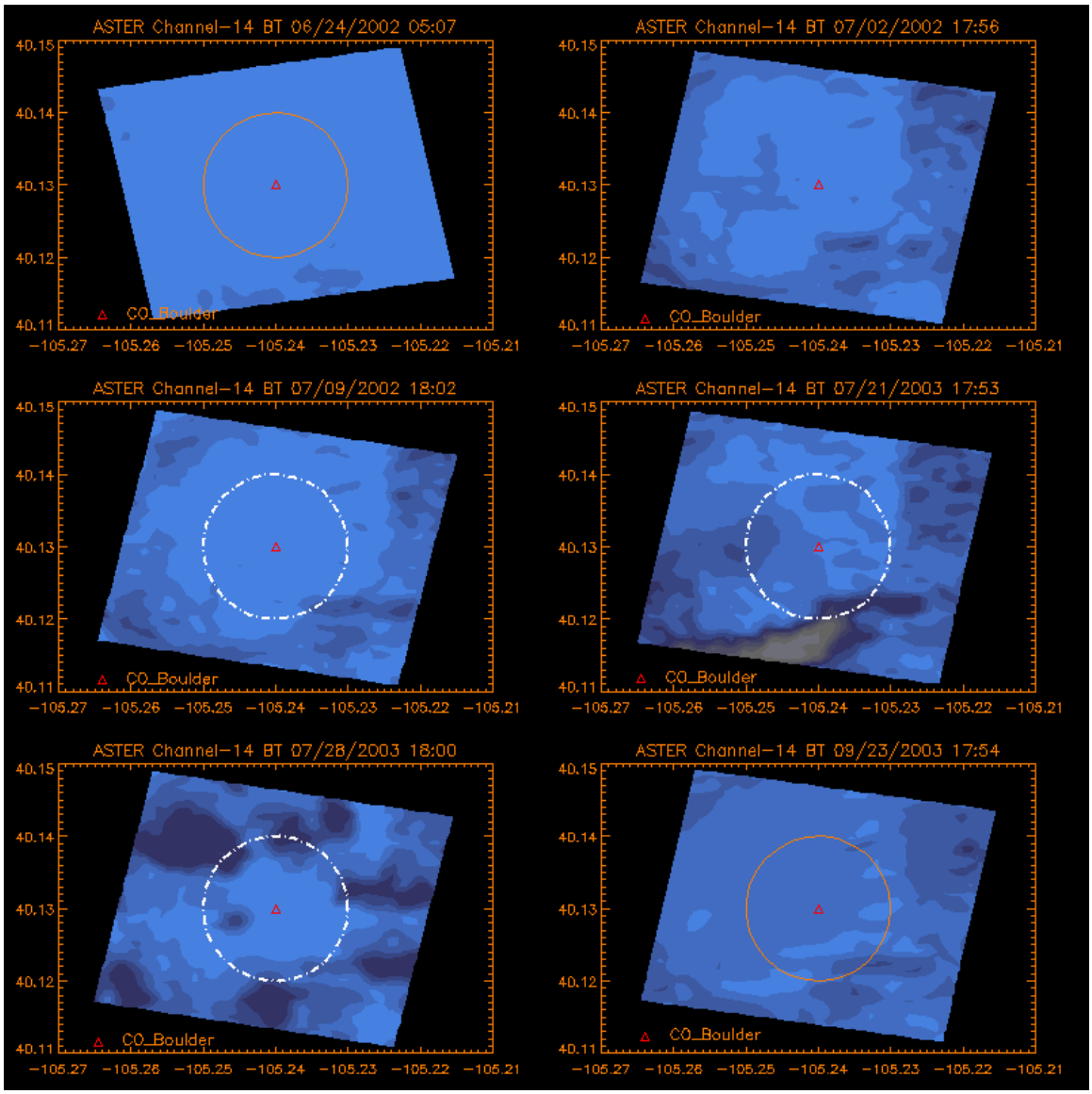

ASTER Channel−14 BT 10/01/2006 17:54
40.25
40.20
40.15
40.10
40.05
40.00
−105.40 −105.35 −105.30 −105.25 −105.20 −105.15 −105.10
CO_Boulder

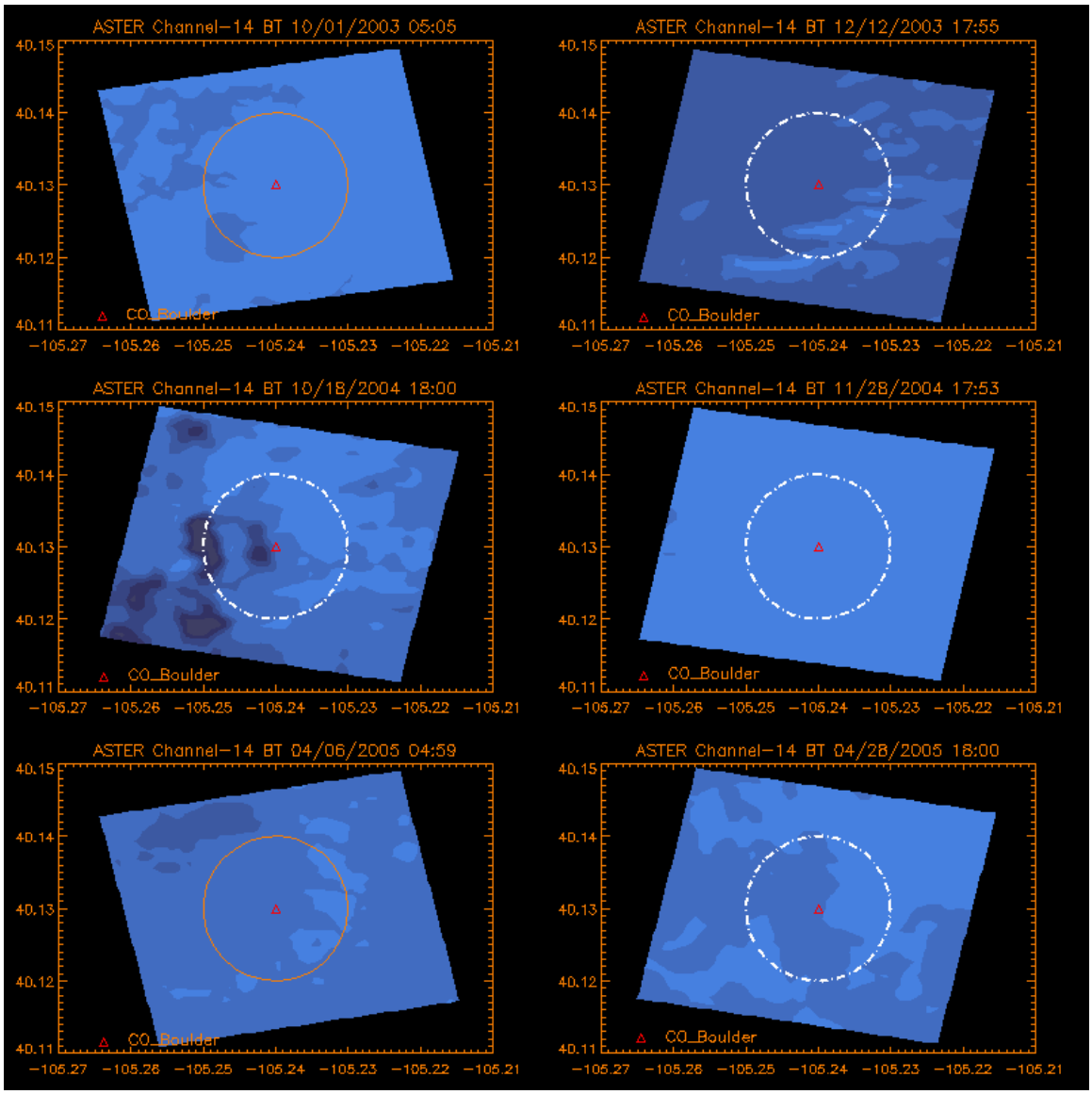

ASTER Channel−14 BT 07/16/2007 17:55
40.25
40.20
40.15
40.10
40.05
40.00
−105.40 −105.35 −105.30 −105.25 −105.20 −105.15 −105.10
CO_Boulder

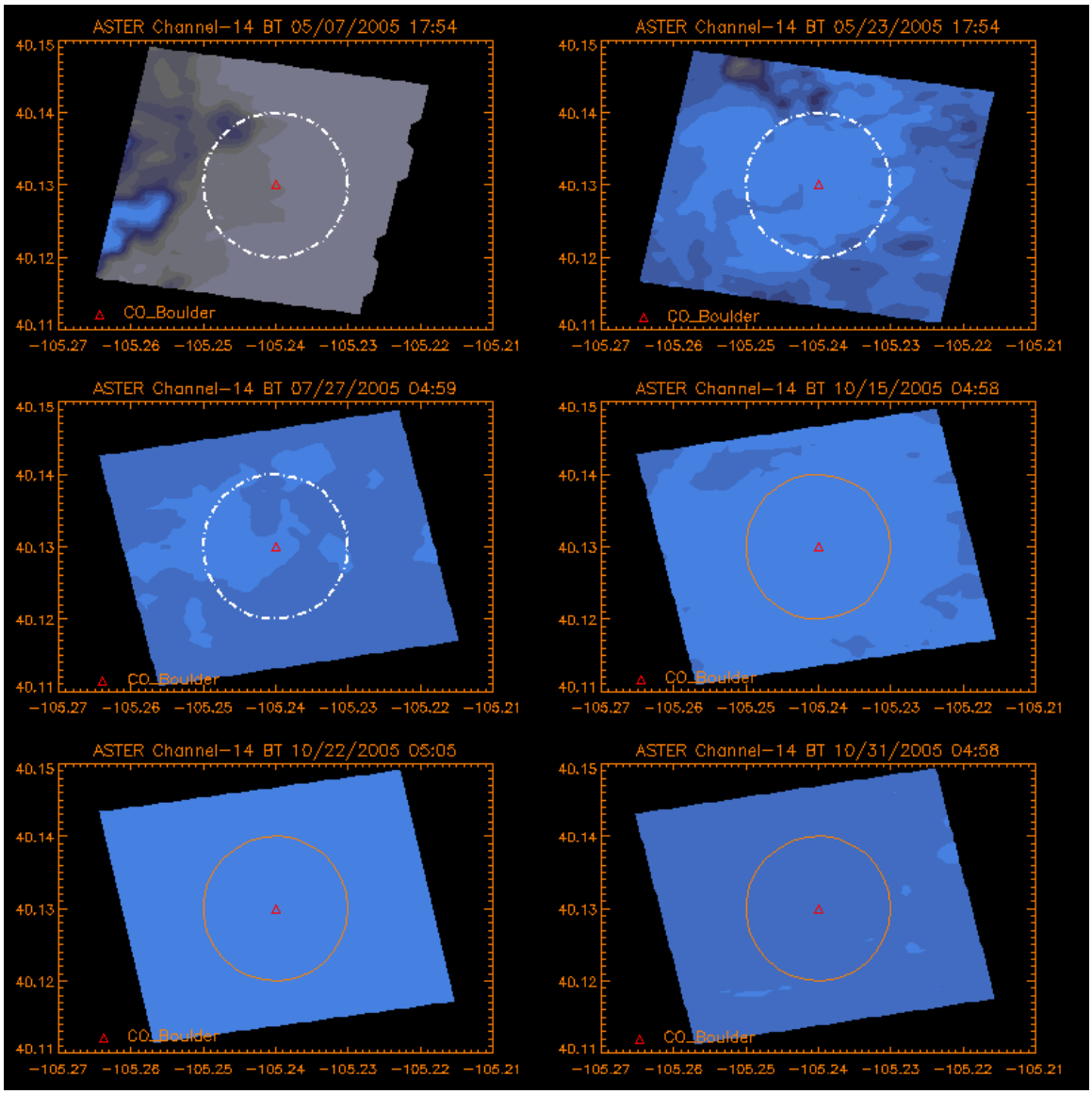

ASTER Channel-14 BT 06/01/2000 18:16
ASTER Channel-14 BT 07/19/2000 18:16
ASTER Channel-14 BT 08/29/2000 18:09
ASTER Channel-14 BT 11/25/2000 05:19
ASTER Channel-14 BT 04/26/2001 18:04
ASTER Channel-14 BT 06/04/2001 18:10
CO_Boulder
40.15
40.14
40.13
40.12
40.11
-105.27 -105.26 -105.25 -105.24 -105.23 -105.22 -105.21


ASTER Channel-14 BT 04/25/2006 04:59
ASTER Channel-14 BT 05/02/2006 05:05
ASTER Channel-14 BT 10/01/2006 17:54
ASTER Channel-14 BT 06/30/2007 17:54
ASTER Channel-14 BT 07/16/2007 17:55
ASTER Channel-14 BT 07/23/2007 18:01
CO_Boulder
40.15
40.14
40.13
40.12
40.11
-105.27 -105.26 -105.25 -105.24 -105.23 -105.22 -105.21


ASTER Channel-14 BT 07/07/2001 05:14
ASTER Channel-14 BT 09/25/2001 05:11
ASTER Channel-14 BT 10/27/2001 05:10
ASTER Channel-14 BT 11/12/2001 05:10
ASTER Channel-14 BT 01/07/2002 17:57
ASTER Channel-14 BT 06/16/2002 17:56
CO_Boulder
40.15
40.14
40.13
40.12
40.11
-105.27 -105.26 -105.25 -105.24 -105.23 -105.22 -105.21


ASTER Channel-14 BT 06/24/2002 05:07
ASTER Channel-14 BT 07/02/2002 17:56
ASTER Channel-14 BT 07/09/2002 18:02
ASTER Channel-14 BT 07/21/2003 17:53
ASTER Channel-14 BT 07/28/2003 18:00
ASTER Channel-14 BT 09/23/2003 17:54
CO_Boulder
40.15
40.14
40.13
40.12
40.11
-105.27 -105.26 -105.25 -105.24 -105.23 -105.22 -105.21


ASTER Channel-14 BT 10/01/2003 05:05
ASTER Channel-14 BT 12/12/2003 17:55
ASTER Channel-14 BT 10/18/2004 18:00
ASTER Channel-14 BT 11/28/2004 17:53
ASTER Channel-14 BT 04/06/2005 04:59
ASTER Channel-14 BT 04/28/2005 18:00
CO_Boulder
40.15
40.14
40.13
40.12
40.11
-105.27 -105.26 -105.25 -105.24 -105.23 -105.22 -105.21


ASTER Channel-14 BT 05/07/2005 17:54
ASTER Channel-14 BT 05/23/2005 17:54
ASTER Channel-14 BT 07/27/2005 04:59
ASTER Channel-14 BT 10/15/2005 04:58
ASTER Channel-14 BT 10/22/2005 05:05
ASTER Channel-14 BT 10/31/2005 04:58
CO_Boulder
40.15
40.14
40.13
40.12
40.11
-105.27 -105.26 -105.25 -105.24 -105.23 -105.22 -105.21