

NOAA COASTAL MAPPING PROGRAM PROJECT COMPLETION REPORT

PROJECT NY1406D-CM-T

Cayuga and Seneca Lakes and Canal, New York

Introduction

Coastal Mapping Program (CMP) Project NY1406D-CM-T provides highly accurate digital shoreline data for Cayuga and Seneca Lakes, and the Cayuga and Seneca Canal to Montezuma Marsh, in New York. NY1406D-CM-T is a sub-project of a larger project, NY1406-CM-T, which covers nearly the entire Erie Canal, from Lock 4 near Waterford to Tonawanda, NY. The Geographic Cell (GC) may be used in support of the NOAA Nautical Charting Program (NCP) as well as geographic information systems (GIS) for coastal zone management applications.

Project Design

Project NY1406-CM-T was designed per a request from the Marine Chart Division (MCD) of NOAA's Office of Coast Survey for GIS data to support an initiative to develop new charts for the New York State Canal System. Available source data deemed adequate for successful completion of this project included color orthomosaic image tiles from the New York State Digital Ortho-imagery Program (NYSDOP). The orthoimages were collected and processed from April 2010 to May 2013 and have a spatial resolution of 0.2 – 0.6 meters.

Field Operations

Routine CMP field operations did not apply for this project based on the origin of the project imagery, which was obtained from external sources.

Georeferencing

Refinement of the georeferencing of the orthoimage tiles used for compilation was not necessary since image positioning compared favorably spatially with sources used to verify its accuracy, and since an acceptable accuracy assessment was provided for the imagery. The source photography was aerotriangulated and the orthoimage accuracy analysis resulted in a reported circular error of 1.2 – 2.4 meters based on a 95% confidence level (CE95). For further information on the collection and processing of the orthoimagery, including horizontal accuracy, refer to the NYSDOP metadata on file within the RSD Electronic Data Library. All positional data for this project is referenced to the North American Datum of 1983 (NAD 83).

Compilation

The compilation of cartographic feature data for this project was accomplished by a member of the Applications Branch (AB) of the Remote Sensing Division (RSD) in February 2016. Using ESRI ArcGIS desktop GIS software (ver. 10.2.2), digital feature data was compiled in shapefile format from the orthoimagery. Feature attribution was assigned in compliance with the Coastal Cartographic Object Attribute Source Table (C-COAST), which provides the definition and attribution scheme for the full range of cartographic features pertinent to the CMP. Selected

features were further modified with additional descriptive information to refine general classification.

Spatial data accuracies for Project NY1406D-CM-T were determined according to standard Federal Geographic Data Committee (FGDC) practices. Cartographic features were compiled to meet a horizontal accuracy of 2.4 – 4.8 meters at the 95% confidence level. This predicted accuracy of compiled, well-defined points was derived by doubling the CE95 reported by the image provider. See the Image Sources Table (Appendix 1) for further information on images used. Due to seasonal meteorological conditions and manipulation of water control structures, the water levels of canals, lakes and rivers in the project area may vary, but the waterways are considered to be non-tidal.

Quality Control / Final Review

Quality control tasks were conducted during all phases of project completion by a senior member of AB. The final QC review was completed in late March 2016. The review process consisted of an assessment of the identification and attribution of cartographic features according to image analysis and criteria defined in C-COAST. The quality control process concluded with an inspection of topological connectivity within the GC using ArcGIS 10.2.2. All project data was evaluated for compliance to CMP requirements.

Comparisons of the largest scale NOAA nautical chart with source imagery and compiled project data resulted in creation of the Chart Evaluation File (CEF). The following nautical charts were used in the comparison process:

- 14786 New York State Canal System Book Chart, 1:20,000 scale, 14th Ed., Oct/08
- 14791 Cayuga and Seneca Lakes, 1:60,000 scale, 18th Ed., Mar/04 (incl. 1:10,000 scale insets)

End Products and Deliverables

The following specifies the location and identification of end products generated during the completion of this project:

Remote Sensing Division Electronic Data Library

- NYSDOP orthoimage metadata
- Project Completion Report (PCR)
- GC11134 in shapefile format
- Chart Evaluation File in shapefile format

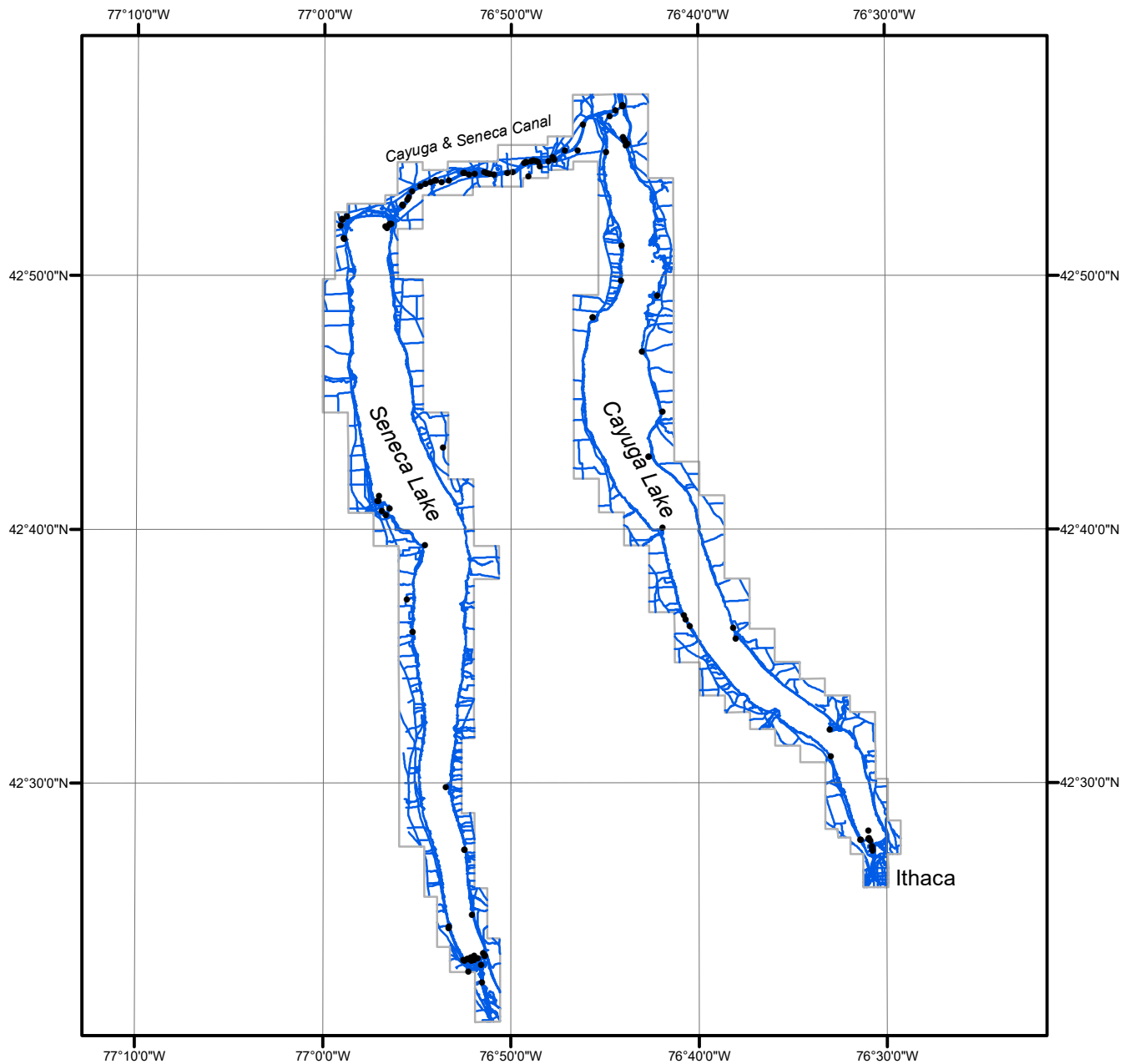
NOAA Shoreline Data Explorer

- GC11134 in shapefile format
- Metadata file for GC11134
- Digital copy of the PCR

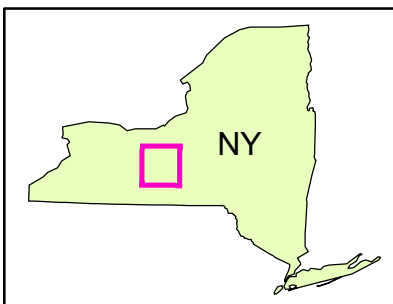
End of Report

CAYUGA AND SENECA LAKES AND CANAL

NEW YORK



Overview



NY1406D-CM-T

GC11134

Appendix 1 Image Sources Table

Image#	Source (Tile) ID	GSD	Date	Accuracy
1	c 07320884 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
2	c 07320886 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
3	c 07320888 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
4	c 07320890 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
5	c 07320892 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
6	c 07320894 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
7	c 07320896 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
8	c 07320906 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
9	c 07320908 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
10	c 07320910 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
11	c 07320912 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
12	c 07320914 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
13	c 07320916 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
14	c 07350872 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
15	c 07350874 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
16	c 07350876 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
17	c 07350878 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
18	c 07350880 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
19	c 07350882 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
20	c 07350884 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
21	c 07350886 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
22	c 07350888 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
23	c 07350890 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
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25	c 07350894 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
26	c 07350896 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
27	c 07350898 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
28	c 07350900 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
29	c 07350902 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
30	c 07350904 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
31	c 07350906 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
32	c 07350908 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
33	c 07350910 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
34	c 07350912 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
35	c 07350914 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
36	c 07350916 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
37	c 07350918 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m

[illegible]

[illegible]

120	c 07470872 06 05000 4bd 2011	0.15 m	4/30/2011 - 5/6/2011	1.2 m
121	c 08310898 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
122	c 08310900 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
123	c 08310902 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
124	c 08310904 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
125	c 08340894 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
126	c 08340896 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
127	c 08340898 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
128	c 08340900 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
129	c 08340902 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
130	c 08340904 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
131	c 08370886 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
132	c 08370888 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
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134	c 08370892 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
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136	c 08370896 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
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139	c 08370902 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
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143	c 08370910 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
144	c 08370912 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
145	c 08370914 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
146	c 08370916 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
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152	c 08400896 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
153	c 08400898 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
154	c 08400900 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
155	c 08400902 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
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157	c 08400906 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
158	c 08400908 06 05000 4bd 2012	0.15 m	3/21/2012 - 4/7/2012	1.2 m
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167	c 07111036 12 09600 4bd 2010	0.3 m	4/1/2010	1.2 m
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169	c 07111038 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
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196	c 07171038 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
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198	c 07171042 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
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205	c 07201038 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
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253	c 07531060 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
254	c 07561056 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
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259	c 07591058 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
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267	c 07651060 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
268	c 07651062 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
269	c 07651064 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
270	c 07681060 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
271	c 07681062 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
272	c 07681064 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
273	c 07681066 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
274	c 07681068 12 09600 4bd 2011	0.3 m	4/15/2011 - 5/6/2011	1.2 m
275	c 07081000 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
276	c 07081004 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
277	c 07081004 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
278	c 07081008 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
279	c 07081012 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
280	c 07081016 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
281	c 07081020 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
282	c 07081024 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
283	c 07081028 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m

284	c 07140976 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
285	c 07140980 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
286	c 07140984 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
287	c 07140988 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
288	c 07140992 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
289	c 07140996 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
290	c 07141000 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
291	c 07141004 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
292	c 07141004 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
293	c 07141008 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
294	c 07141008 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
295	c 07141012 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
296	c 07141012 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
297	c 07141016 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
298	c 07141016 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
299	c 07141020 24 19200 4bd 2010	0.6 m	4/1/2010	2.4 m
300	c 07141020 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
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304	c 07141028 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
305	c 07141032 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
306	c 07141036 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
307	c 07200968 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
308	c 07200972 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
309	c 07200976 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
310	c 07200980 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
311	c 07200984 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
312	c 07200988 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
313	c 07200992 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
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319	c 07201016 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
320	c 07201020 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
321	c 07201024 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
322	c 07201028 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
323	c 07201032 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
324	c 07201036 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m

325	c 07201040 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
326	c 07260896 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
327	c 07260900 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
328	c 07260904 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
329	c 07260908 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
330	c 07260912 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
331	c 07260916 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
332	c 07260920 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
333	c 07260924 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
334	c 07260928 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
335	c 07260932 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
336	c 07260936 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
337	c 07260940 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
338	c 07260944 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
339	c 07260948 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
340	c 07260952 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
341	c 07260956 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
342	c 07260960 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
343	c 07260964 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
344	c 07260968 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
345	c 07260972 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
346	c 07260976 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
347	c 07260980 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
348	c 07260984 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
349	c 07260988 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
350	c 07260992 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
351	c 07260996 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
352	c 07261000 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
353	c 07261004 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
354	c 07261008 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
355	c 07261012 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
356	c 07261016 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
357	c 07261020 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
358	c 07261024 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
359	c 07261028 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
360	c 07261044 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
361	c 07261048 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
362	c 07261052 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
363	c 07261056 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
364	c 07320896 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
365	c 07320900 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m

366	c 07320904	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
367	c 07320908	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
368	c 07320912	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
369	c 07320916	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
370	c 07320920	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
371	c 07320924	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
372	c 07320928	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
373	c 07320932	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
374	c 07320936	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
375	c 07320940	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
376	c 07320944	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
377	c 07320948	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
378	c 07320952	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
379	c 07320956	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
380	c 07320960	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
381	c 07320964	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
382	c 07320968	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
383	c 07320972	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
384	c 07320976	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
385	c 07320980	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
386	c 07320984	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
387	c 07320988	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
388	c 07320992	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
389	c 07320996	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
390	c 07321052	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
391	c 07380924	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
392	c 07380928	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
393	c 07380932	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
394	c 07380936	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
395	c 07380940	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
396	c 07380944	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
397	c 07380948	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
398	c 07380952	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
399	c 07380956	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
400	c 07380960	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
401	c 07380964	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
402	c 07380968	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
403	c 07380972	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
404	c 07380976	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
405	c 07380980	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
406	c 07381052	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m

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408	c 07440964 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
409	c 07501060 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
410	c 07680984 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
411	c 07680988 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
412	c 07680992 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
413	c 07680996 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
414	c 07681000 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
415	c 07681004 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
416	c 07681008 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
417	c 07681012 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
418	c 07681016 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
419	c 07681020 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
420	c 07681024 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
421	c 07681060 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
422	c 07681064 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
423	c 07681068 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
424	c 07681072 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
425	c 07681088 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
426	c 07740976 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
427	c 07740980 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
428	c 07740984 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
429	c 07740988 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
430	c 07740992 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
431	c 07740996 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
432	c 07741000 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
433	c 07741004 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
434	c 07741008 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
435	c 07741012 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
436	c 07741016 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
437	c 07741020 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
438	c 07741024 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
439	c 07741028 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
440	c 07741032 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
441	c 07741036 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
442	c 07741040 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
443	c 07741044 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
444	c 07741048 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
445	c 07741052 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
446	c 07741056 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
447	c 07741060 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m

448	c 07741064	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
449	c 07741068	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
450	c 07741072	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
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452	c 07741080	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
453	c 07741084	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
454	c 07741088	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
455	c 07741092	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
456	c 07800968	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
457	c 07800972	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
458	c 07800976	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
459	c 07800980	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
460	c 07800984	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
461	c 07800988	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
462	c 07800992	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
463	c 07800996	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
464	c 07801000	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
465	c 07801004	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
466	c 07801008	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
467	c 07801012	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
468	c 07801016	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
469	c 07801020	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
470	c 07801024	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
471	c 07801028	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
472	c 07801032	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
473	c 07801036	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
474	c 07801040	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
475	c 07801044	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
476	c 07801048	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
477	c 07801052	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
478	c 07801056	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
479	c 07801060	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
480	c 07801064	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
481	c 07801068	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
482	c 07801072	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
483	c 07801076	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
484	c 07801080	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
485	c 07801084	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
486	c 07801088	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
487	c 07801092	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
488	c 07860952	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m

489	c 07860956	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
490	c 07860960	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
491	c 07860964	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
492	c 07860968	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
493	c 07860972	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
494	c 07860976	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
495	c 07860980	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
496	c 07860984	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
497	c 07860988	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
498	c 07860992	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
499	c 07860996	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
500	c 07861000	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
501	c 07861004	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
502	c 07861008	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
503	c 07861012	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
504	c 07861016	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
505	c 07861020	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
506	c 07861024	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
507	c 07861028	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
508	c 07861032	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
509	c 07861036	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
510	c 07861040	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
511	c 07861044	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
512	c 07861048	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
513	c 07861052	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
514	c 07920940	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
515	c 07920944	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
516	c 07920948	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
517	c 07920952	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
518	c 07920952	24	19200	4bd	2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
519	c 07920956	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
520	c 07920956	24	19200	4bd	2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
521	c 07920960	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
522	c 07920964	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
523	c 07920968	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
524	c 07920972	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
525	c 07920976	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
526	c 07920980	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
527	c 07920984	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
528	c 07980932	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
529	c 07980936	24	19200	4bd	2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m

530	c 07980940 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
531	c 07980940 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
532	c 07980944 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
533	c 07980944 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
534	c 07980948 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
535	c 07980948 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
536	c 07980952 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
537	c 07980952 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
538	c 07980956 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
539	c 07980956 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
540	c 07980960 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
541	c 07980964 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
542	c 07980968 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
543	c 07980972 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
544	c 07980976 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
545	c 08040928 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
546	c 08040928 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
547	c 08040932 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
548	c 08040932 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
549	c 08040936 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
550	c 08040936 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
551	c 08040940 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
552	c 08040940 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
553	c 08040944 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
554	c 08040948 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
555	c 08040952 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
556	c 08040952 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
557	c 08040956 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
558	c 08040956 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
559	c 08100924 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
560	c 08100928 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
561	c 08100928 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
562	c 08100932 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
563	c 08100932 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
564	c 08100936 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m
565	c 08100936 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
566	c 08100940 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
567	c 08100944 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
568	c 08160920 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
569	c 08160924 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
570	c 08160928 24 19200 4bd 2011	0.6 m	5/9/2011 - 5/11/2011	2.4 m

571	c 08160928 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
572	c 08160932 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
573	c 08160936 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
574	c 08220916 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
575	c 08220920 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
576	c 08220924 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
577	c 08220928 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
578	c 08220932 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
579	c 08280900 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
580	c 08280904 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
581	c 08280908 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
582	c 08280912 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
583	c 08280916 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
584	c 08280920 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
585	c 08280924 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
586	c 08280928 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
587	c 08340904 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
588	c 08340908 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
589	c 08340912 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
590	c 08340916 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
591	c 08340920 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m
592	c 08340924 24 19200 4bd 2012	0.6 m	4/3/2012 - 4/19/2012	2.4 m