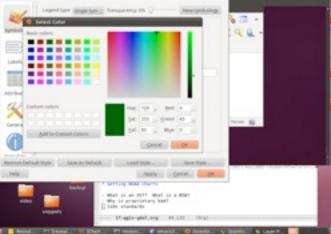
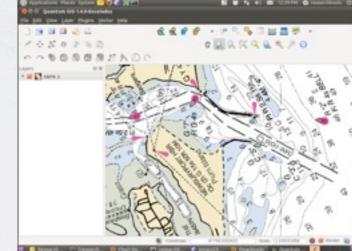




RESEARCH TOOLS 2011 LECTURE 17



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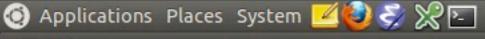


UNH CCOM/JHC GDAL and QGIS: Viewing Raster and Vector Charts



Thursday, October 27, 11

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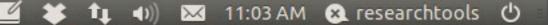
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Research Tools Class 17: GDAL and QGIS

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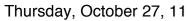


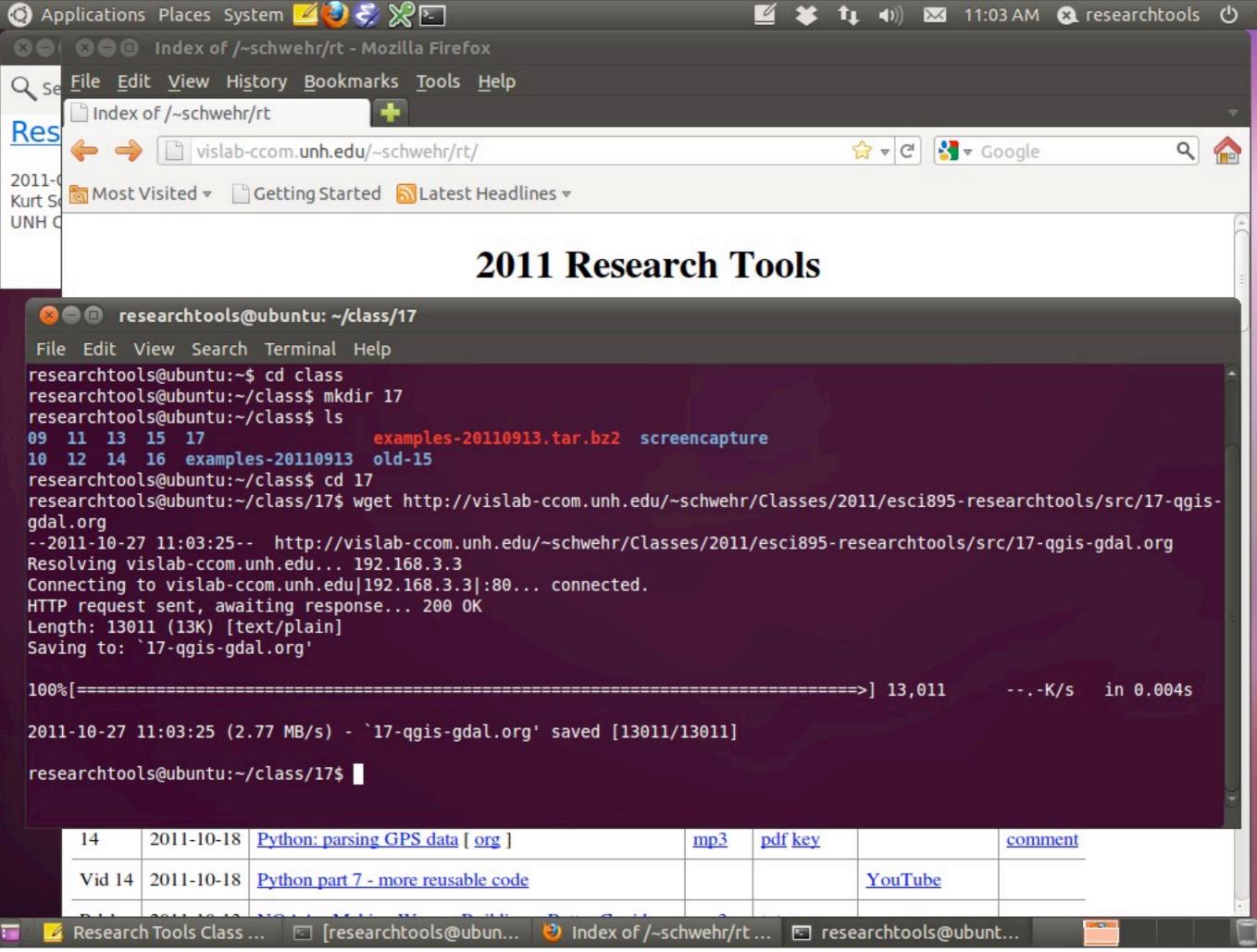
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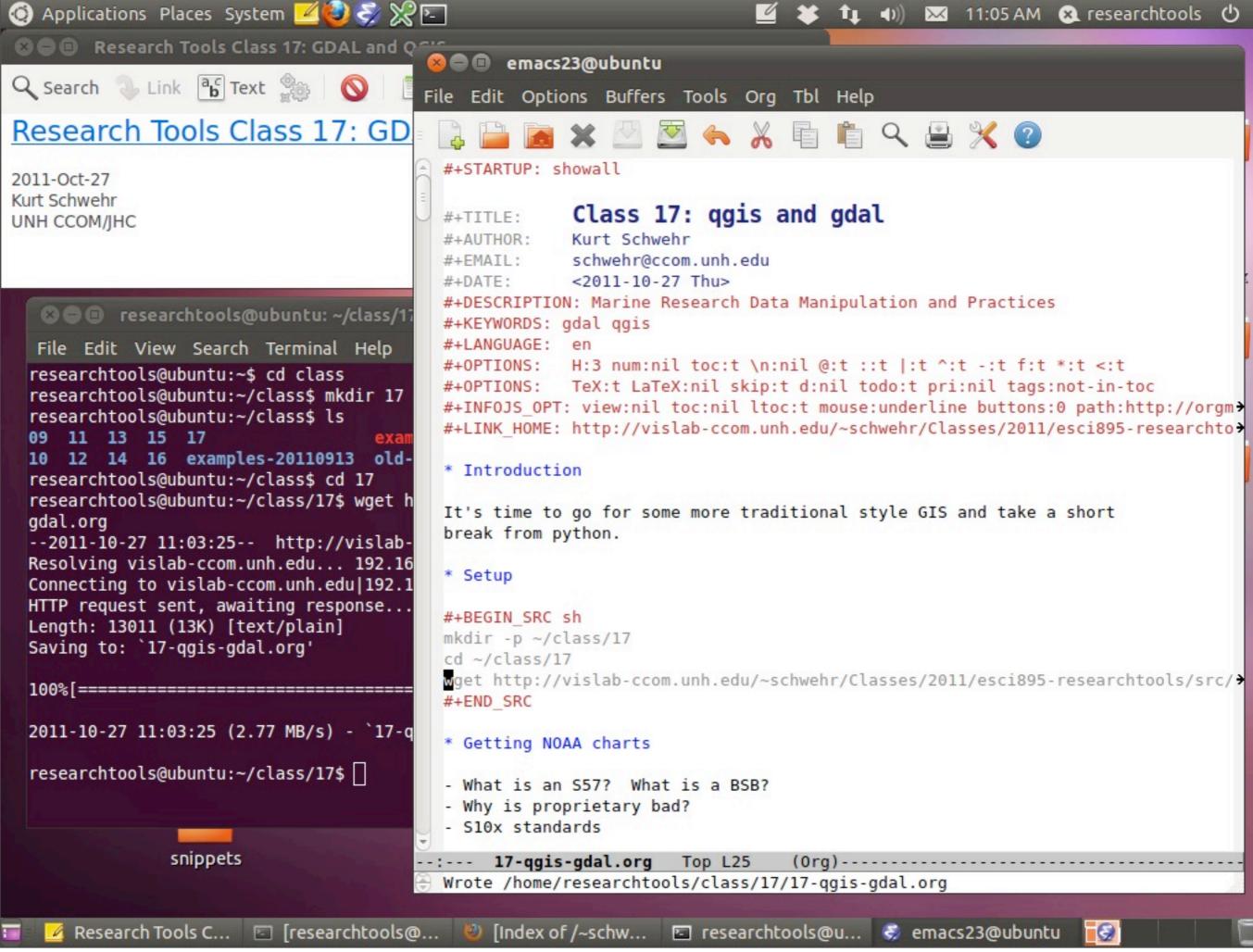


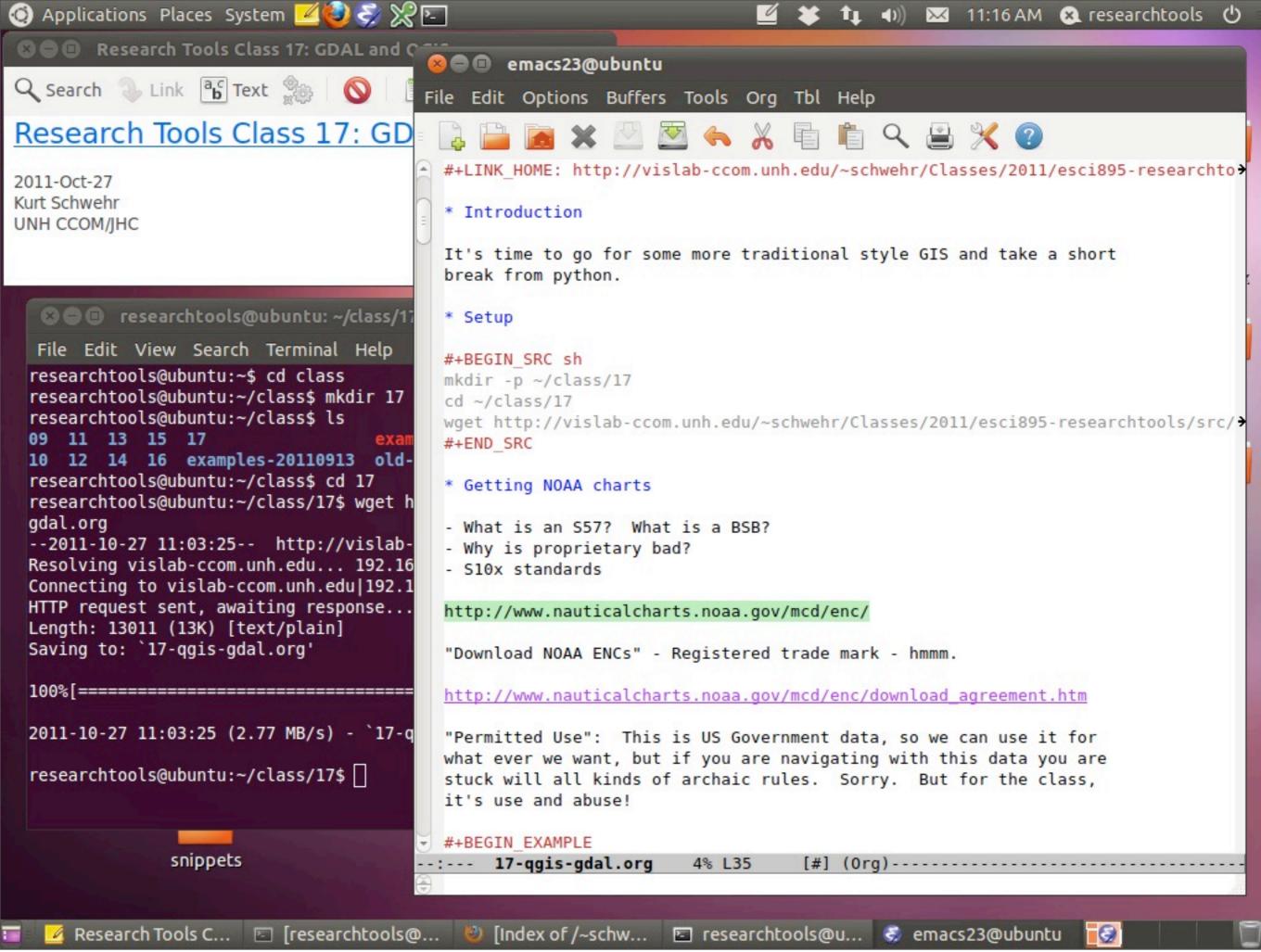
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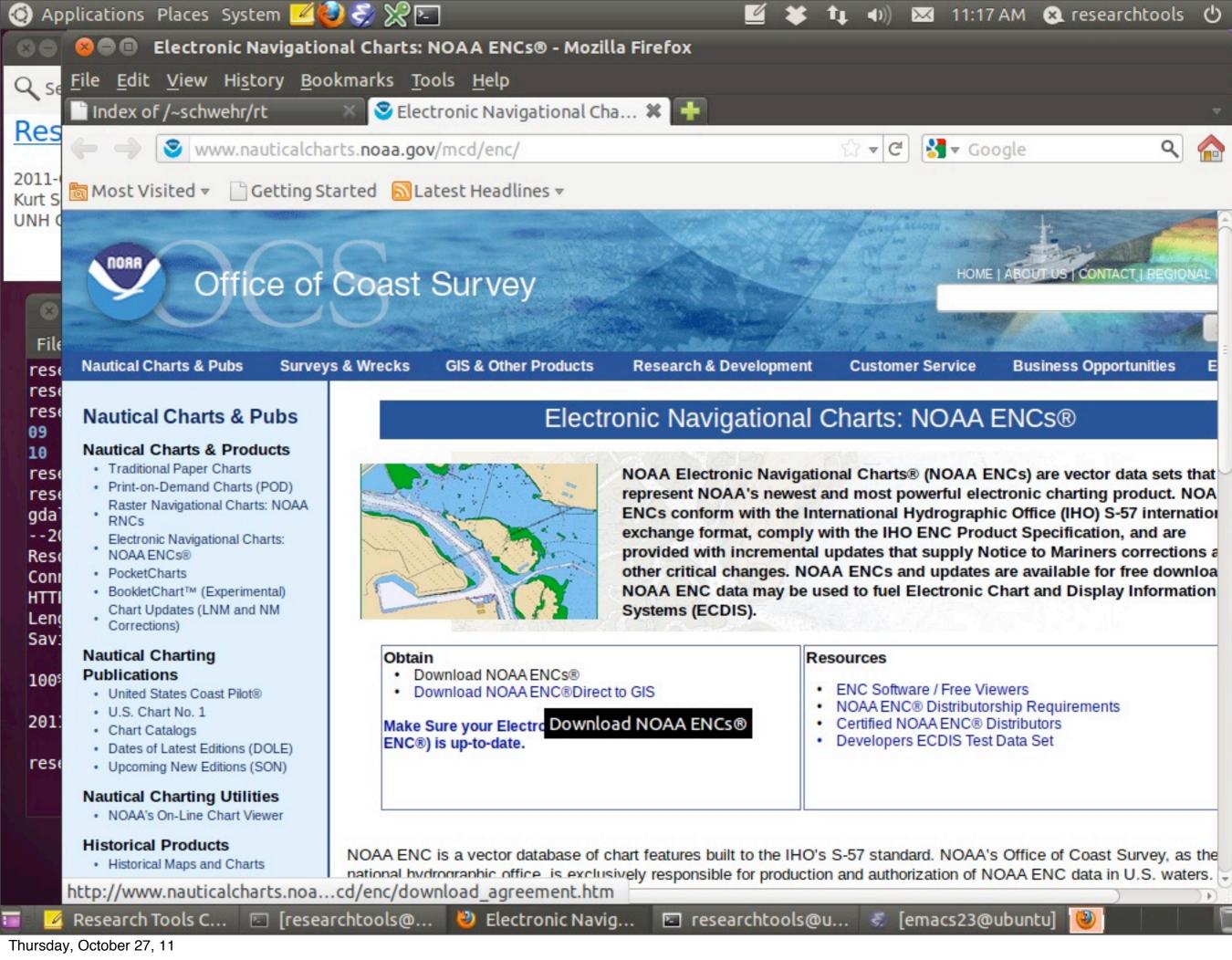
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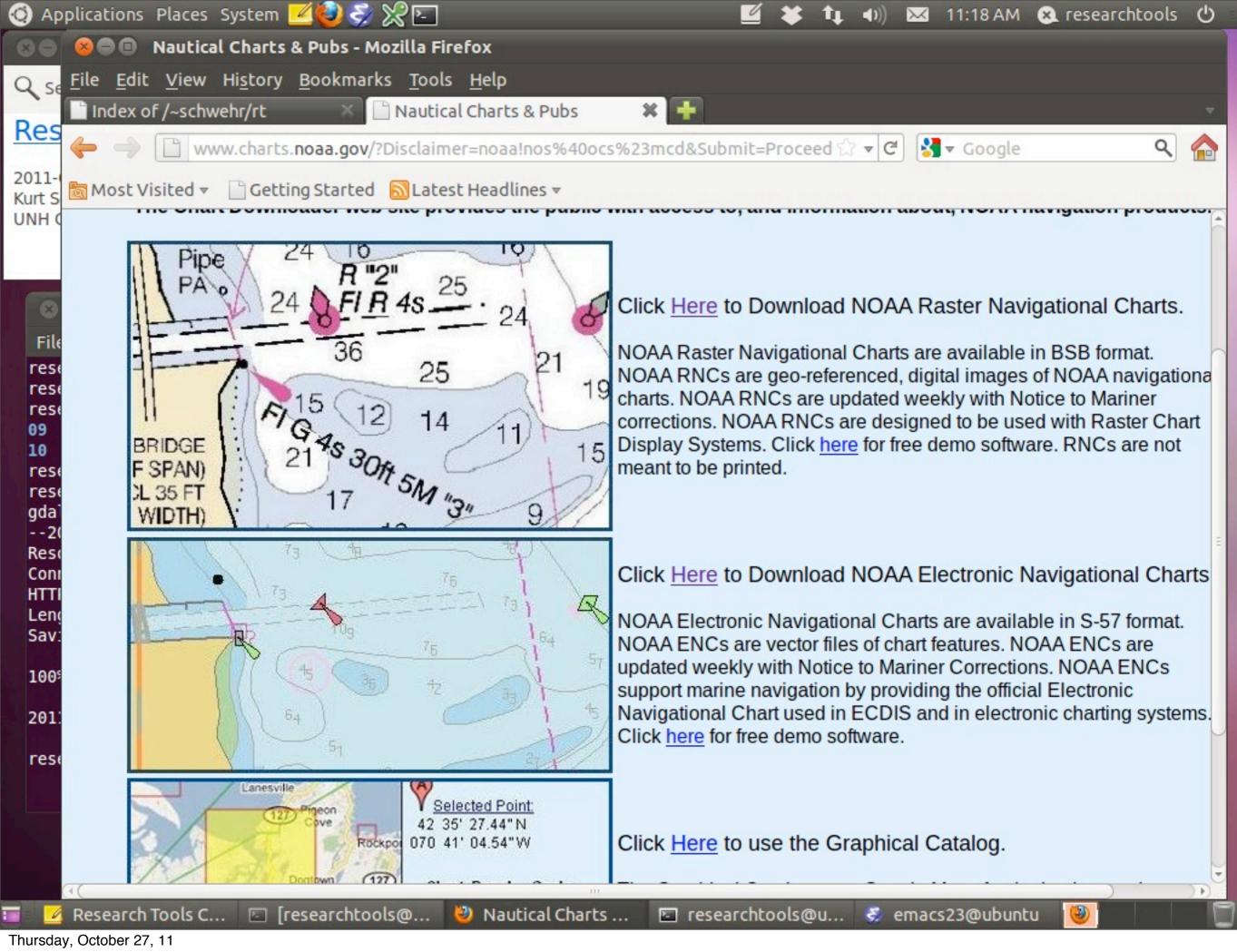




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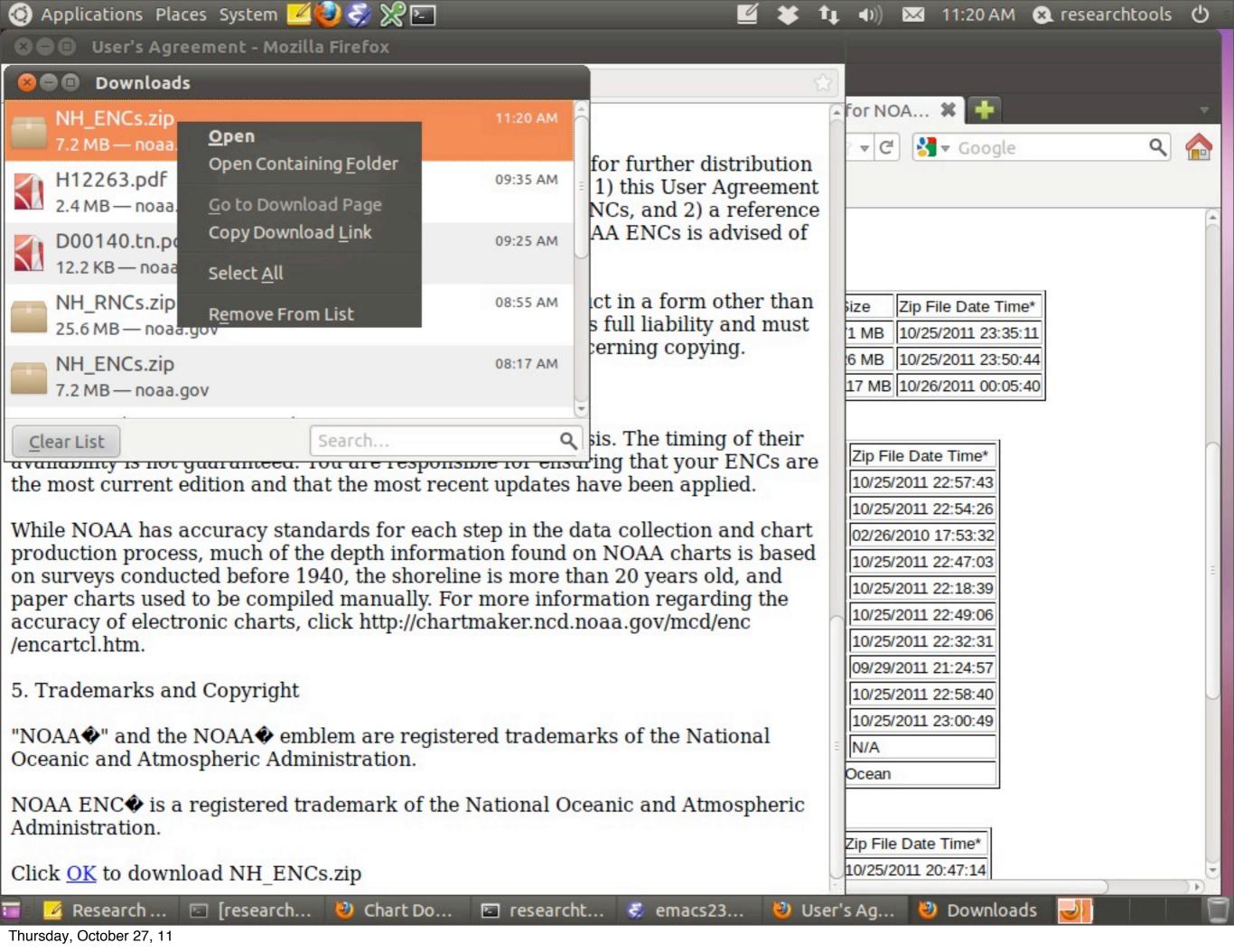


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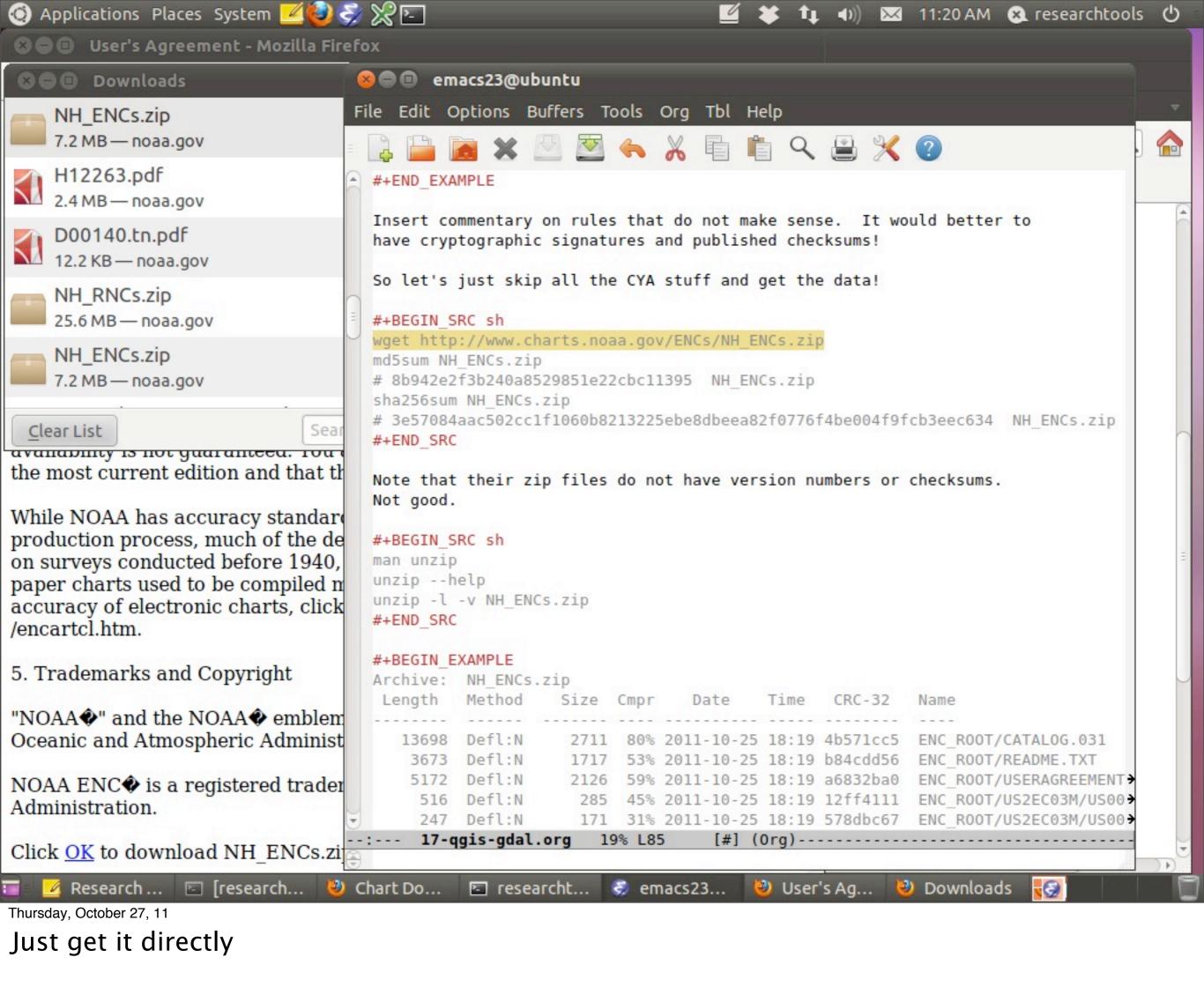
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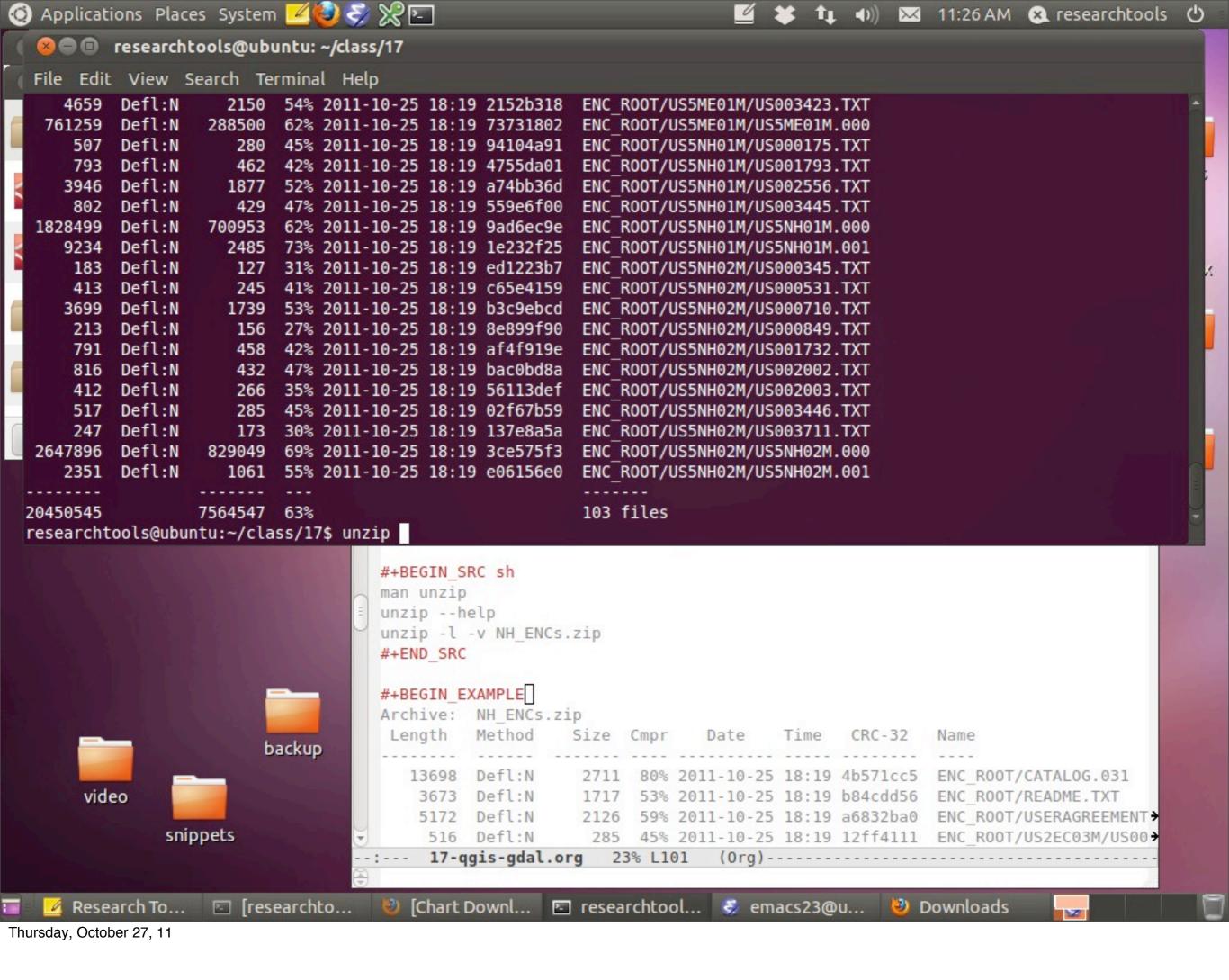
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discouraged unless the following guidelines are followed: 1) the NOAA ENC<mark><AE></mark>s and supplementary files including the CATA LOG.031 and README.TXT are included in their entirety, 2) this disclaimer is displayed to and accepted by anyone who acce sses the NOAA ENC<mark><AE></mark>s, and 3) a reference to this Web site is included so that anyone accessing the NOAA ENC<mark><AE></mark>s is adv ised of where they originated.

If these NOAA ENC<AE>s are incorporated into any other product in a form other than as provided by NOAA, the producer of that product assumes full liability and must adhere to conditions 2 and 3 described in the paragraph above concerning copying or reproduction.

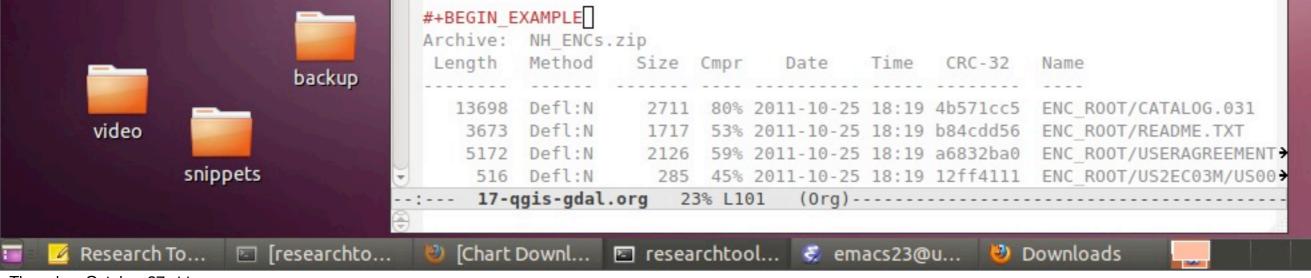
List of Datasets In This Exchange Set:

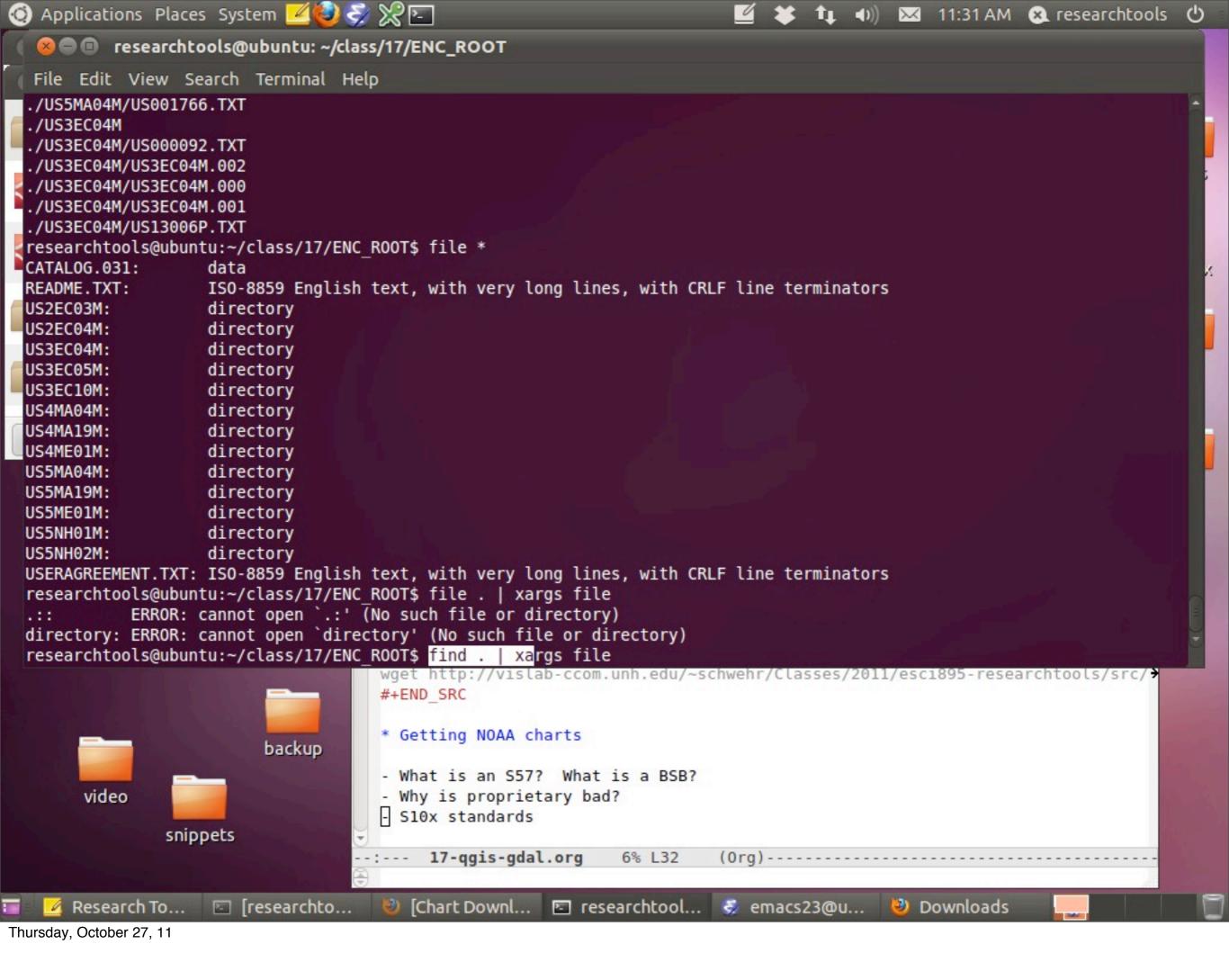
Chart|Title|Edition|Update Application Date|Update|Issue Date|Cell Name

13003|Cape Sable to Cape Hatteras|22|2011-10-24|0|2011-10-24|US2EC03M 13006|West Quoddy Head to New York|7|2011-06-02|2|2011-09-07|US2EC04M 13009|Gulf of Maine and Georges Bank|6|2010-08-31|0|2010-08-31|US3EC05M 13260|Bay of Fundy to Cape Cod|29|2011-04-20|4|2011-10-19|US3EC10M 13278|Portsmouth to Cape Ann|18|2011-05-19|2|2011-10-12|US4MA04M 13274|Portsmouth Harbor to Boston Harbor|3|2011-05-26|0|2011-05-26|US4MA19M 13286|Cape Elizabeth to Portsmouth|8|2011-05-23|0|2011-05-23|US4ME01M 13278|Hampton Harbor|1|2010-04-23|0|2010-04-23|US5MA04M 13274|Merrimack River Extension|3|2011-05-03|2|2011-10-12|US5MA19M 13286|Cape Porpoise Harbor; Wells Harbor; Kennebunk River; Perkins Cove|1|2010-06-16|0|2010-06-16|US5ME01M 13285|Portsmouth to Dover and Exeter|15|2011-06-01|1|2011-07-13|US5NH01M 13283|Portsmouth Harbor Cape Neddick Harbor to Isles of Shoals; Portsmouth Harbor|15|2011-06-01|1|2011-08-31|US5NH02M

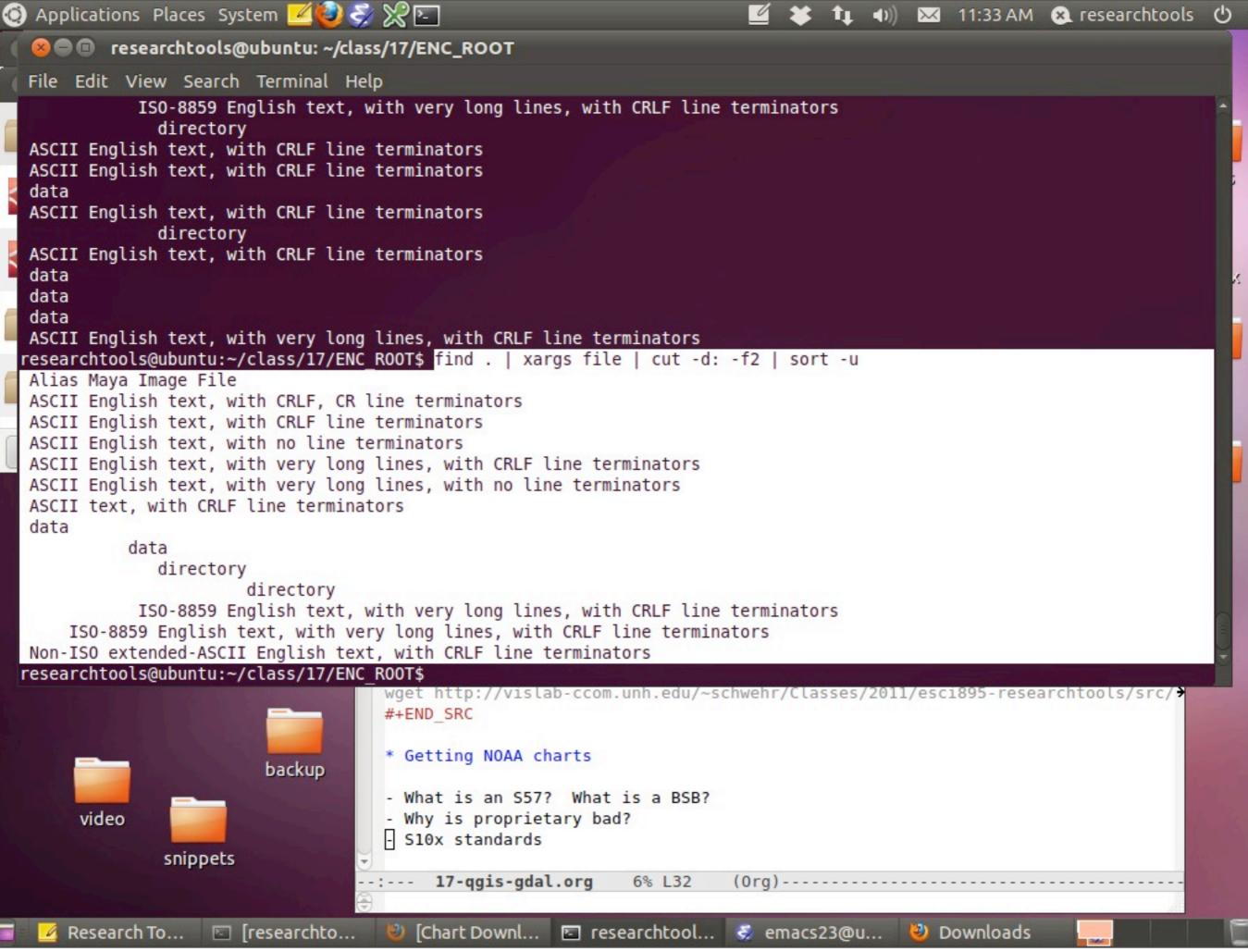
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2680 ./US2EC04M		X
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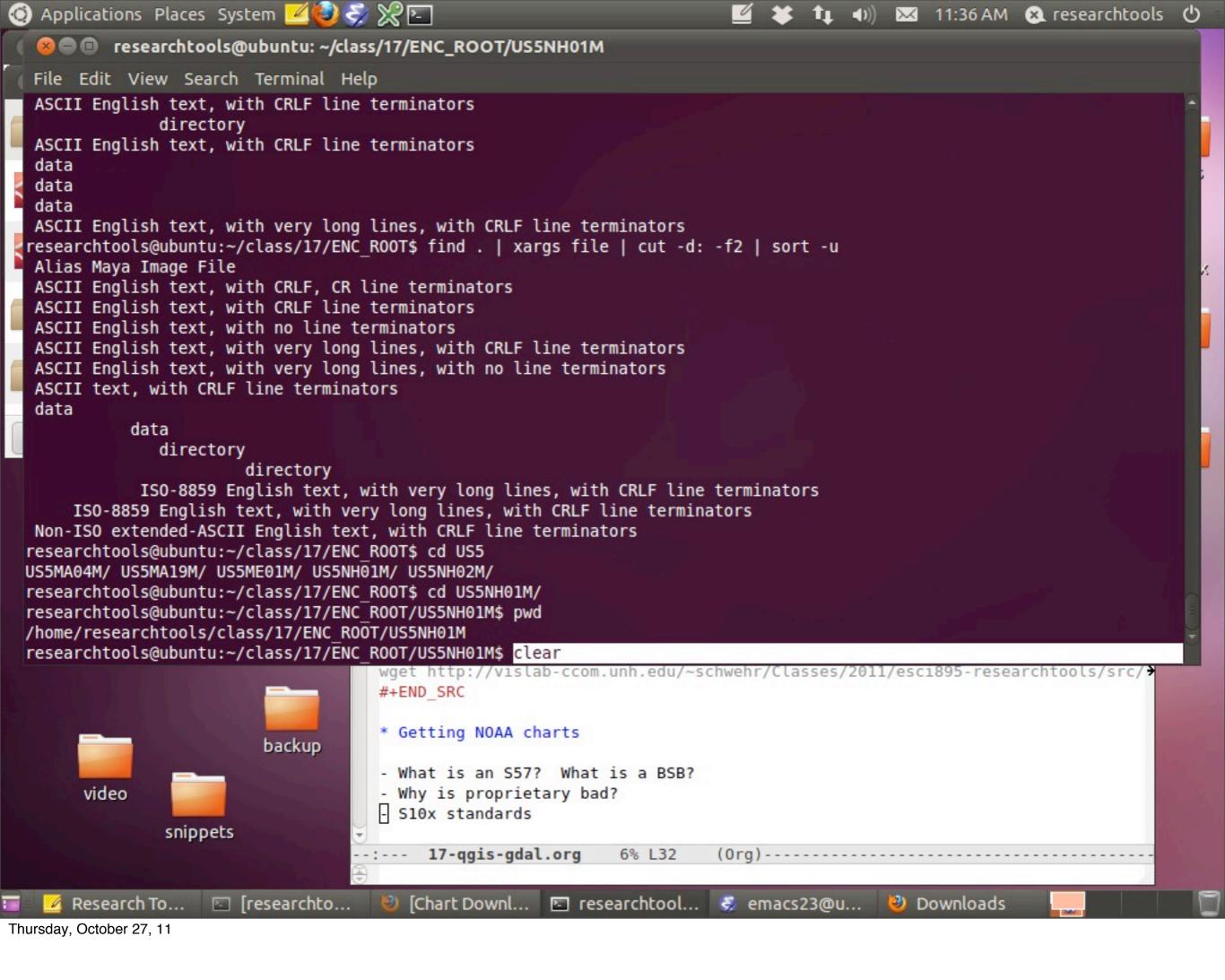


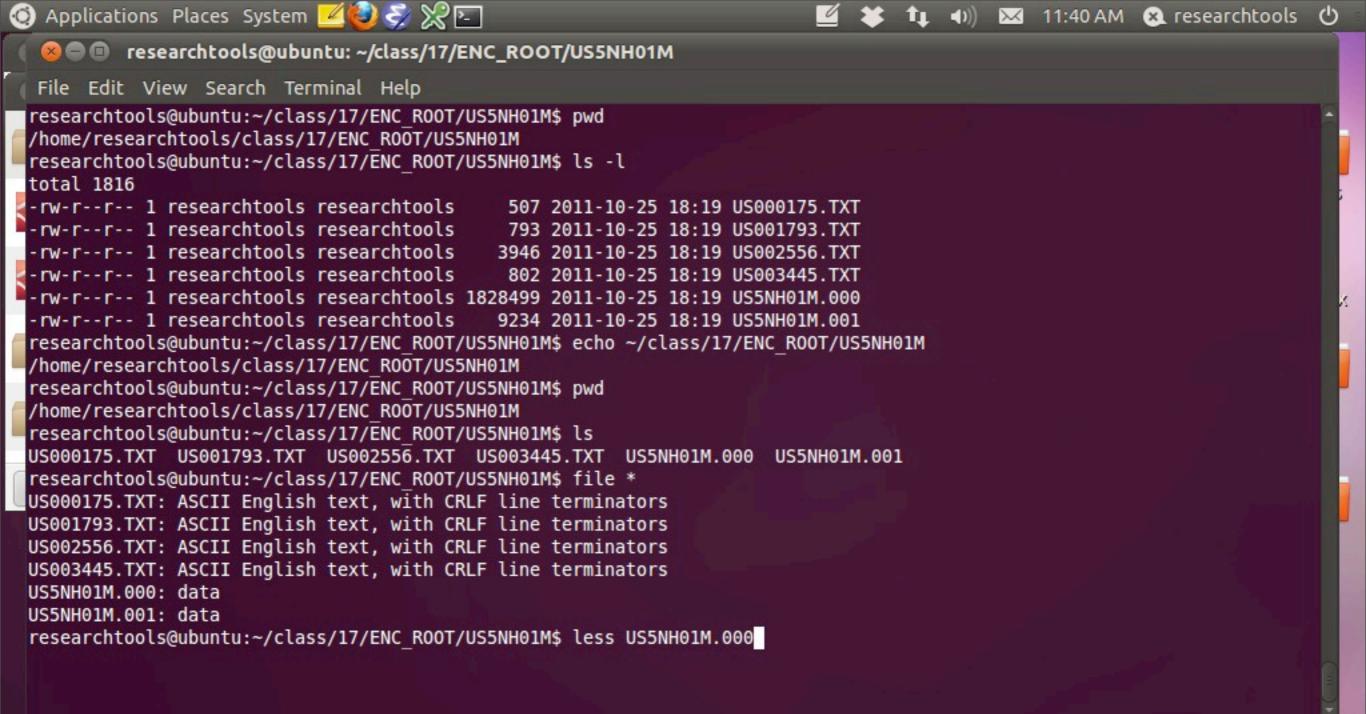


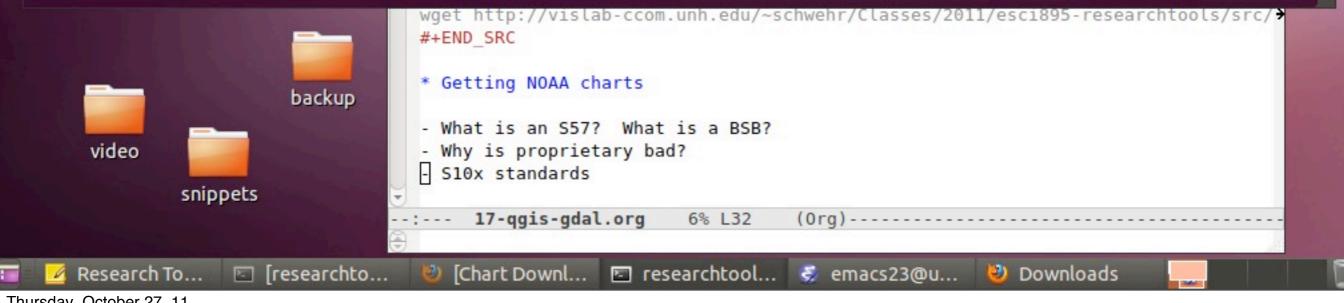
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./US5MA04M/US002718.TXT: ASCII English text, with CRLF line terminators					
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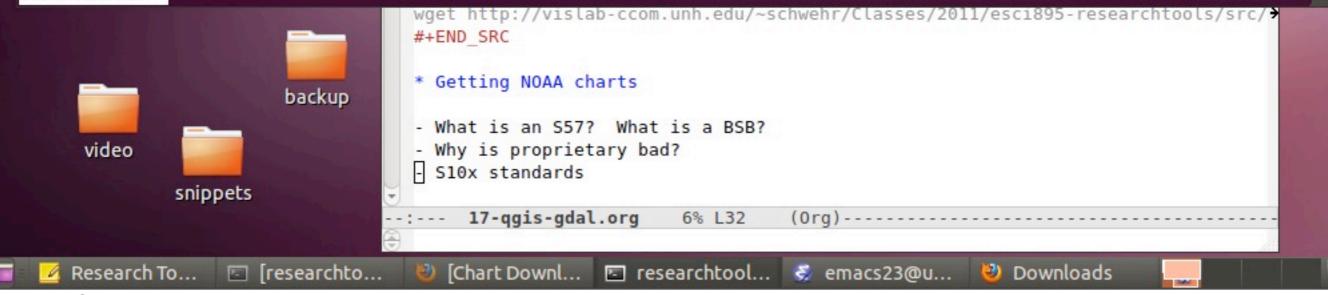
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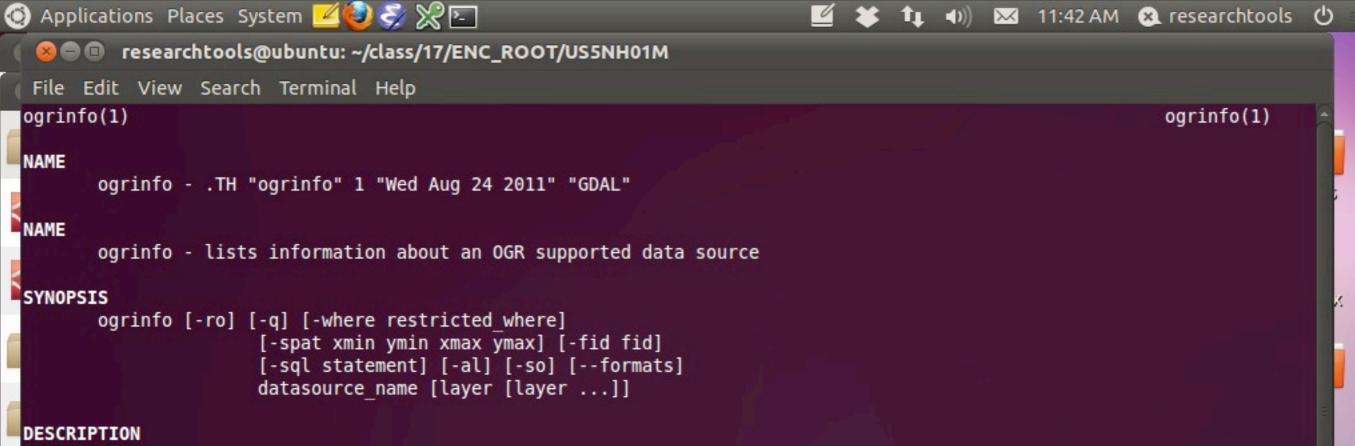
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The ogrinfo program lists various information about an OGR supported data source to stdout (the terminal).

-ro:

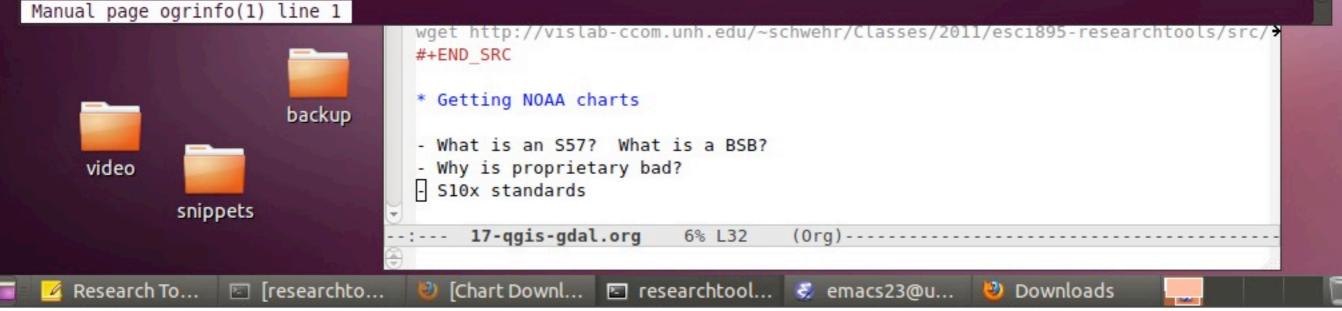
Open the data source in read-only mode.

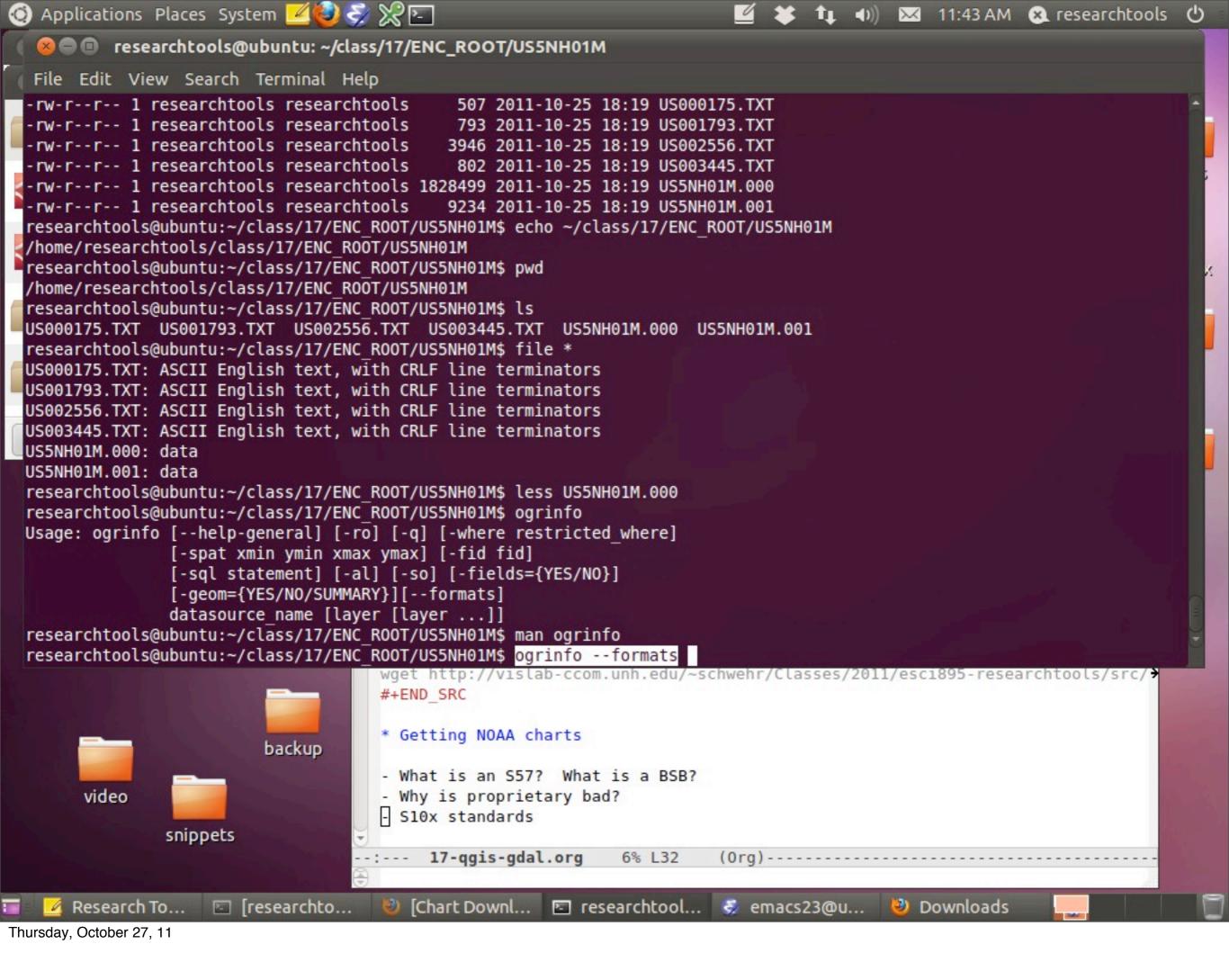
-al:

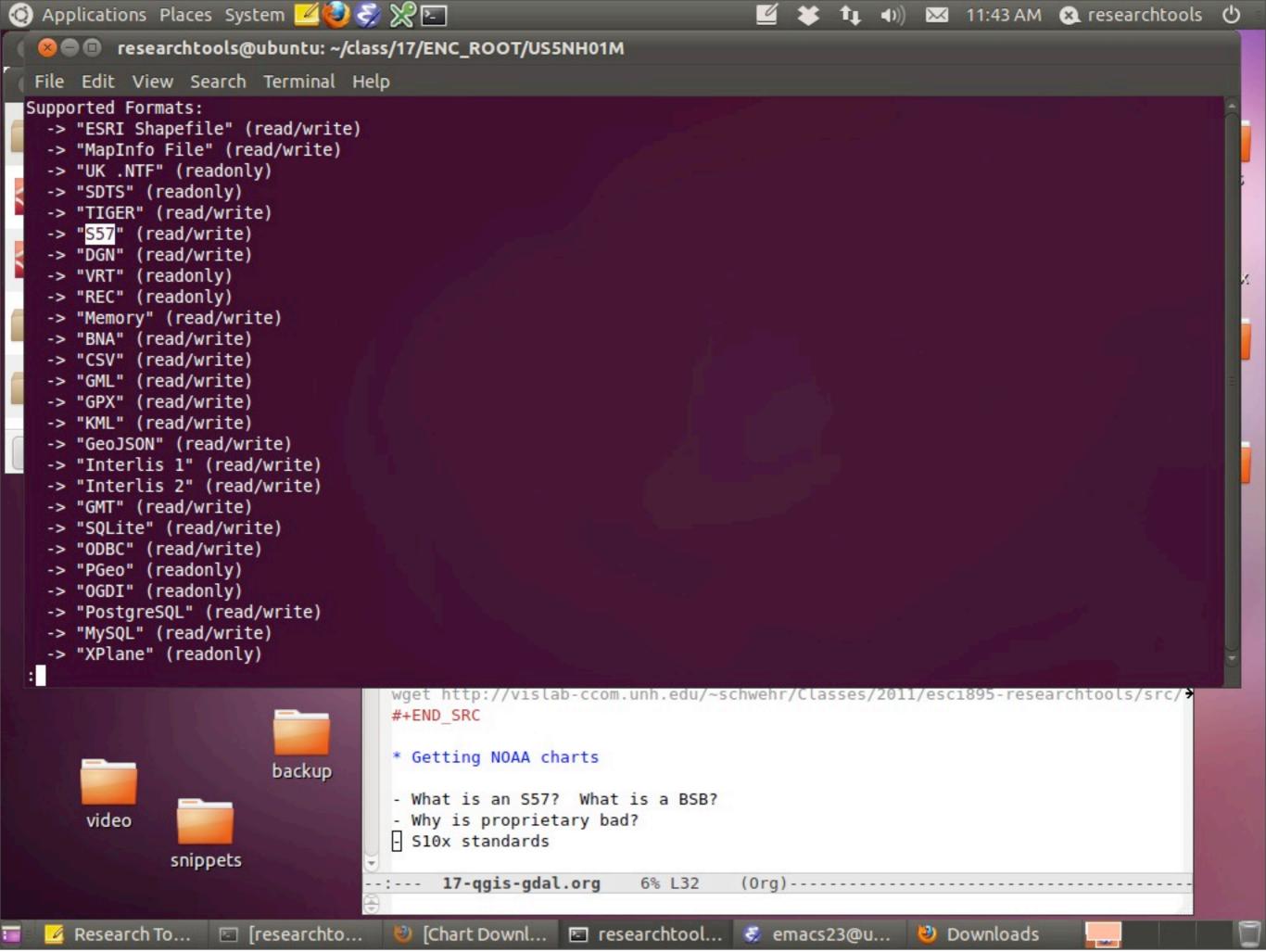
List all features of all layers (used instead of having to give layer names as arguments).

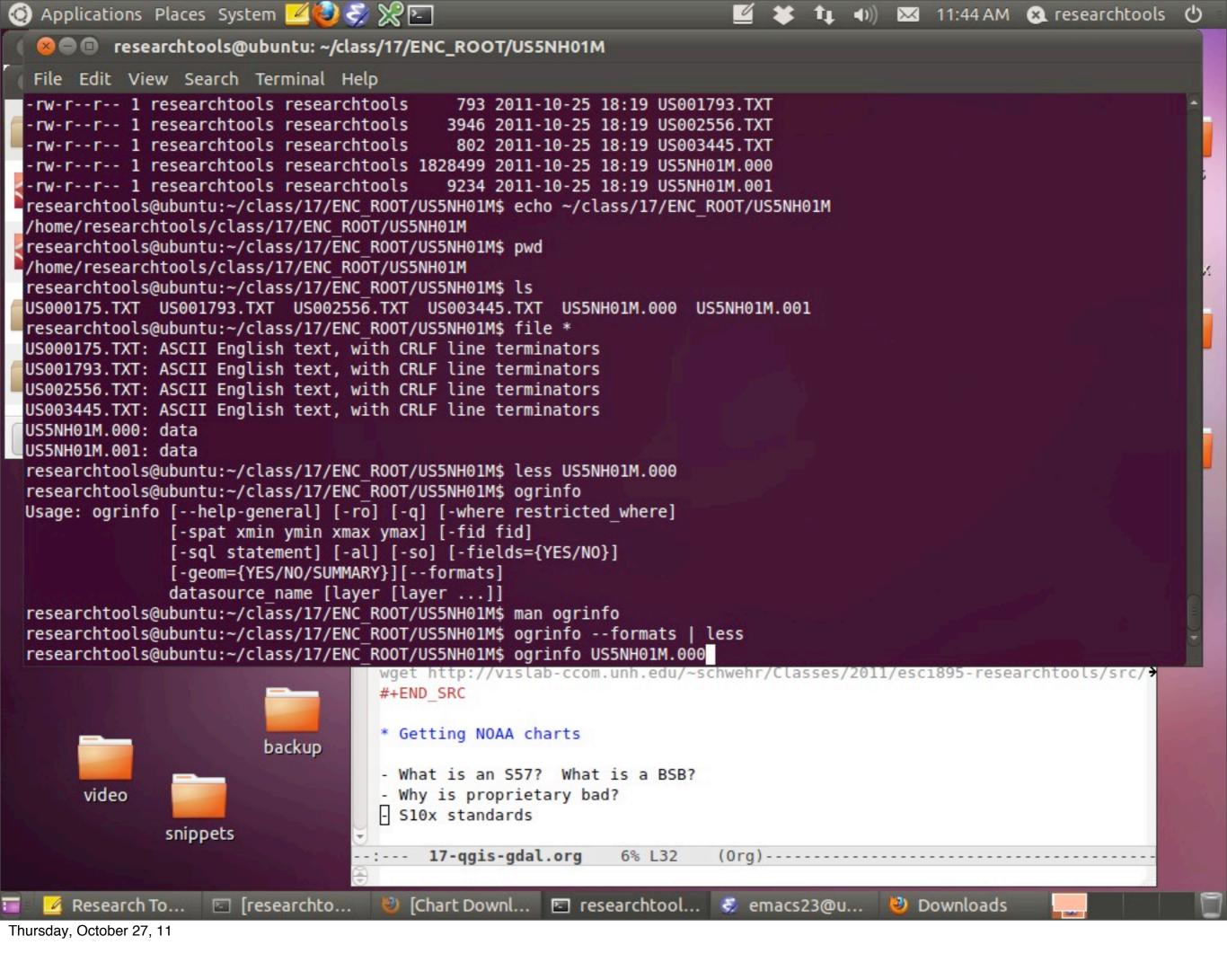
- 50:

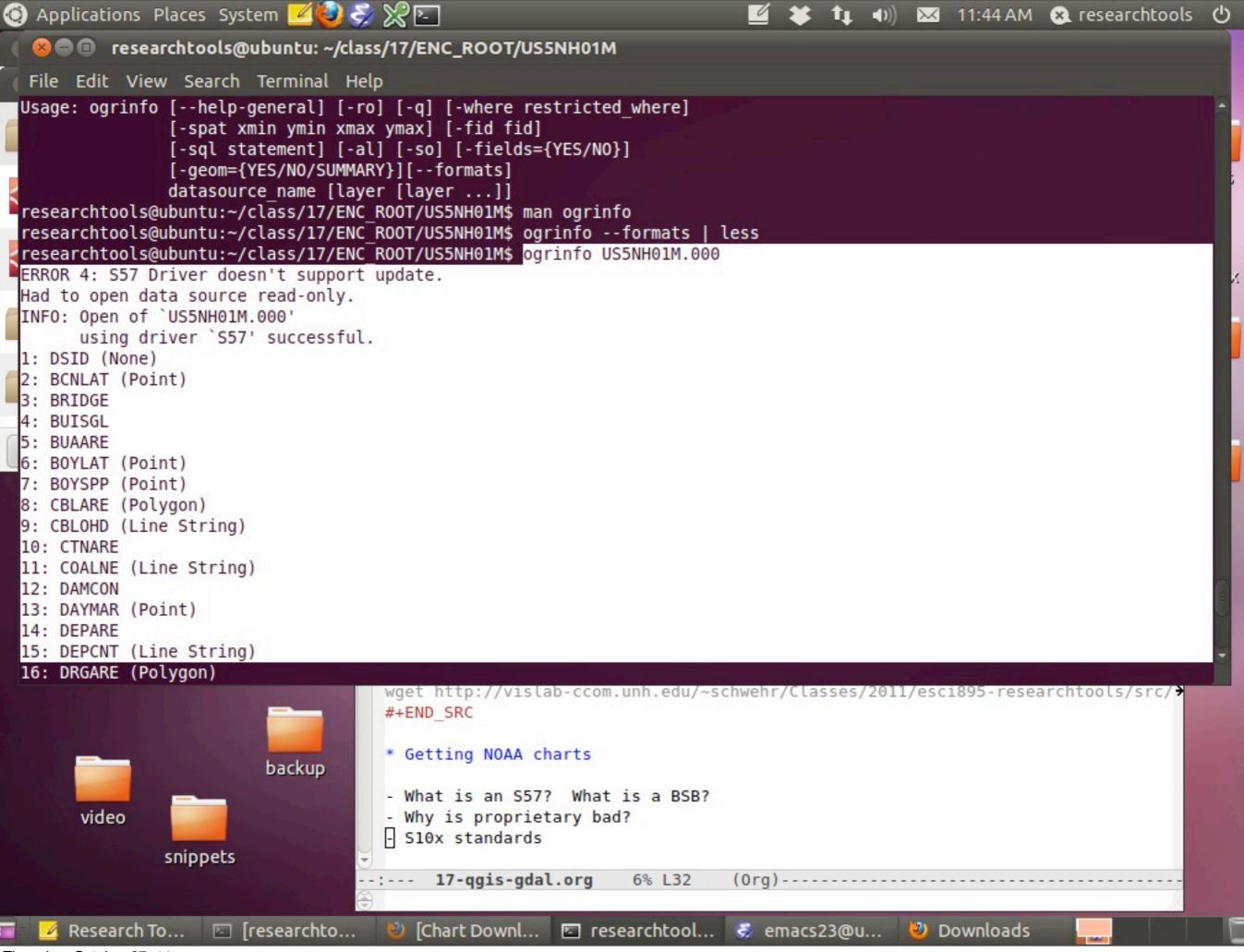
Summary Only: supress listing of features, show only the summary information like projection, schema, feature count and extents.



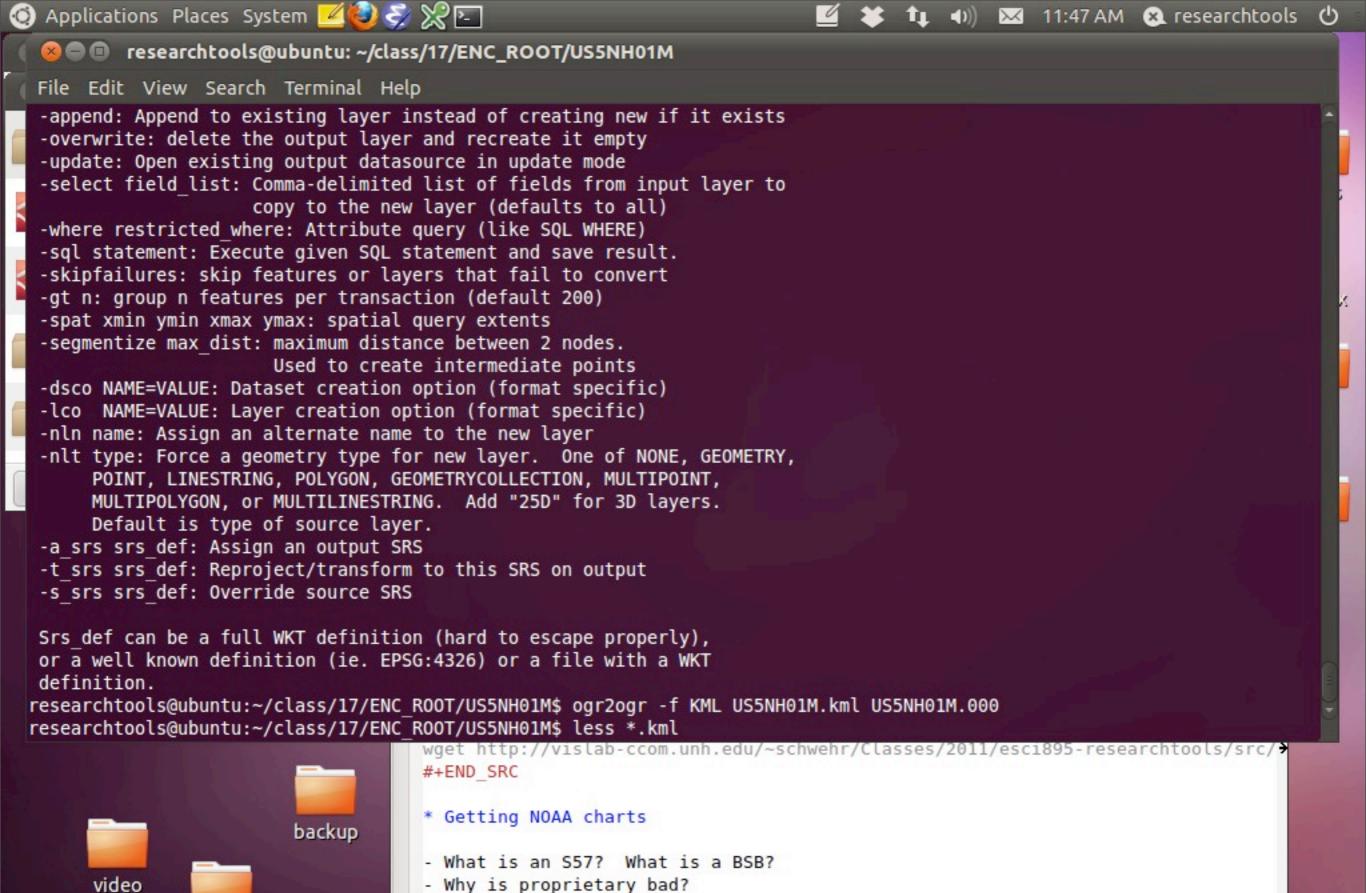








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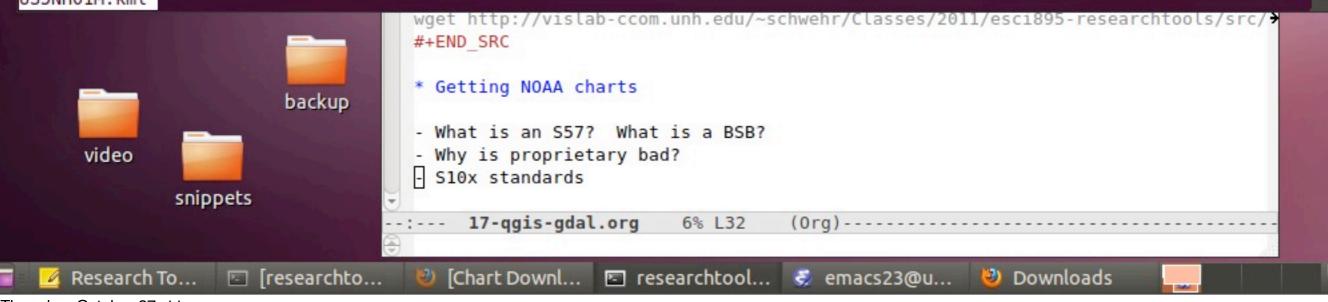
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<?xml version="1.0" encoding="utf-8" ?> <kml xmlns="http://www.opengis.net/kml/2.2"> <Document><Folder><name>DSID</name> <Schema name="DSID" id="DSID">

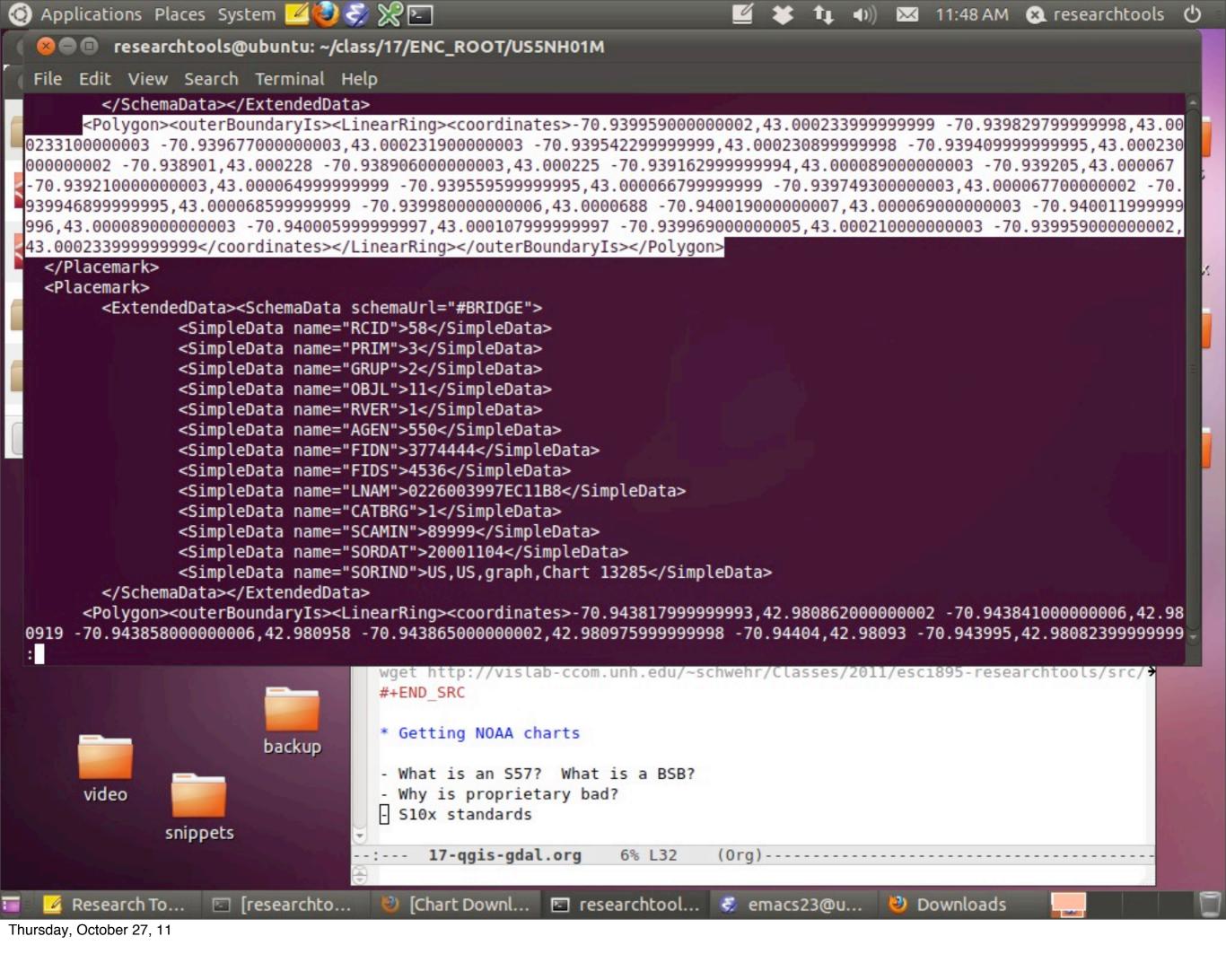
> <SimpleField name="Name" type="string"></SimpleField> <SimpleField name="Description" type="string"></SimpleField> <SimpleField name="DSID EXPP" type="int"></SimpleField> <SimpleField name="DSID INTU" type="int"></SimpleField> <SimpleField name="DSID DSNM" type="string"></SimpleField> <SimpleField name="DSID EDTN" type="string"></SimpleField> <SimpleField name="DSID UPDN" type="string"></SimpleField> <SimpleField name="DSID UADT" type="string"></SimpleField> <SimpleField name="DSID ISDT" type="string"></SimpleField> <SimpleField name="DSID STED" type="float"></SimpleField> <SimpleField name="DSID PRSP" type="int"></SimpleField> <SimpleField name="DSID PSDN" type="string"></SimpleField> <SimpleField name="DSID PRED" type="string"></SimpleField> <SimpleField name="DSID PROF" type="int"></SimpleField> <SimpleField name="DSID AGEN" type="int"></SimpleField> <SimpleField name="DSID COMT" type="string"></SimpleField> <SimpleField name="DSSI DSTR" type="int"></SimpleField> <SimpleField name="DSSI AALL" type="int"></SimpleField> <SimpleField name="DSSI NALL" type="int"></SimpleField> <SimpleField name="DSSI NOMR" type="int"></SimpleField> <SimpleField name="DSSI NOCR" type="int"></SimpleField> <SimpleField name="DSSI NOGR" type="int"></SimpleField> <SimpleField name="DSSI NOLR" type="int"></SimpleField>

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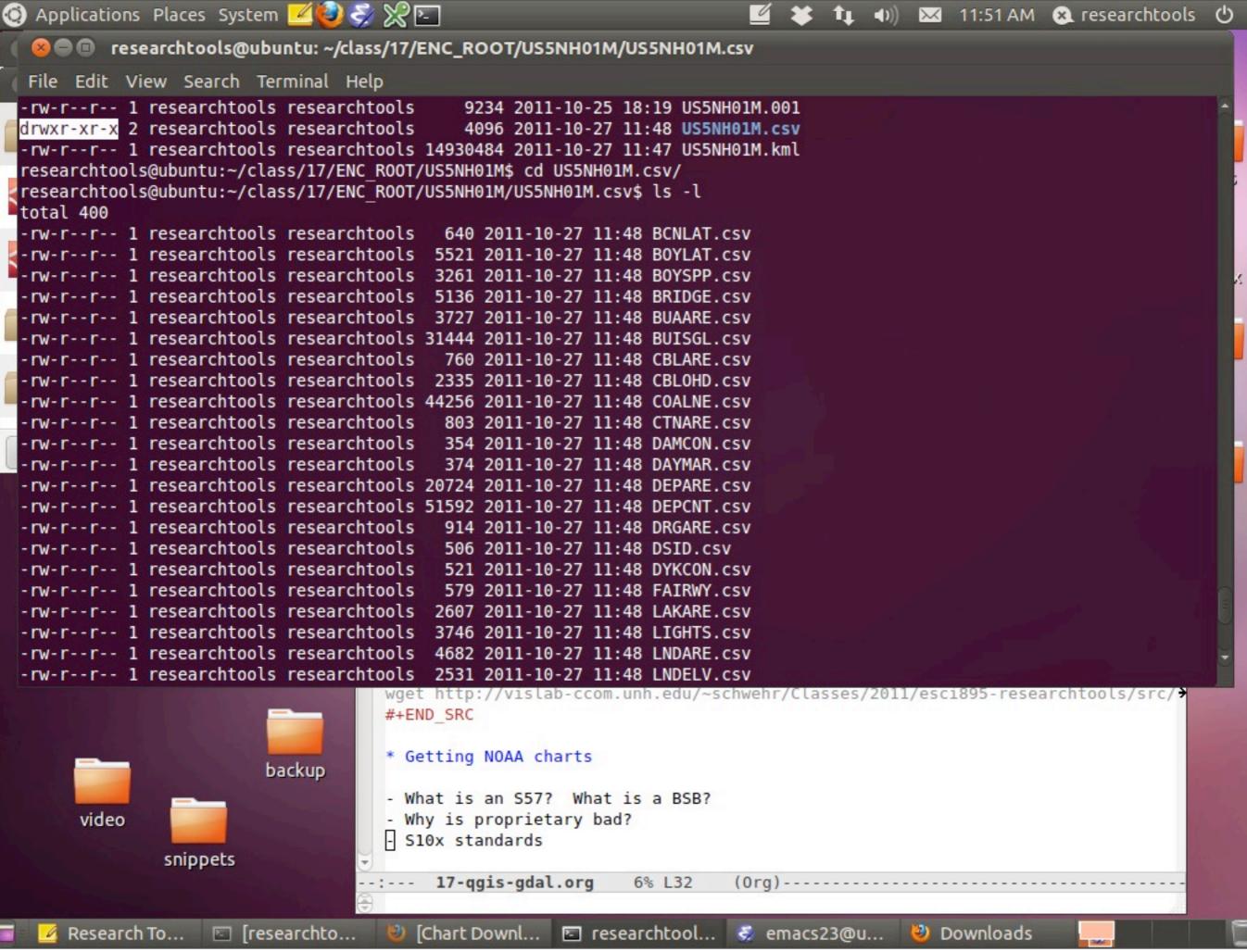


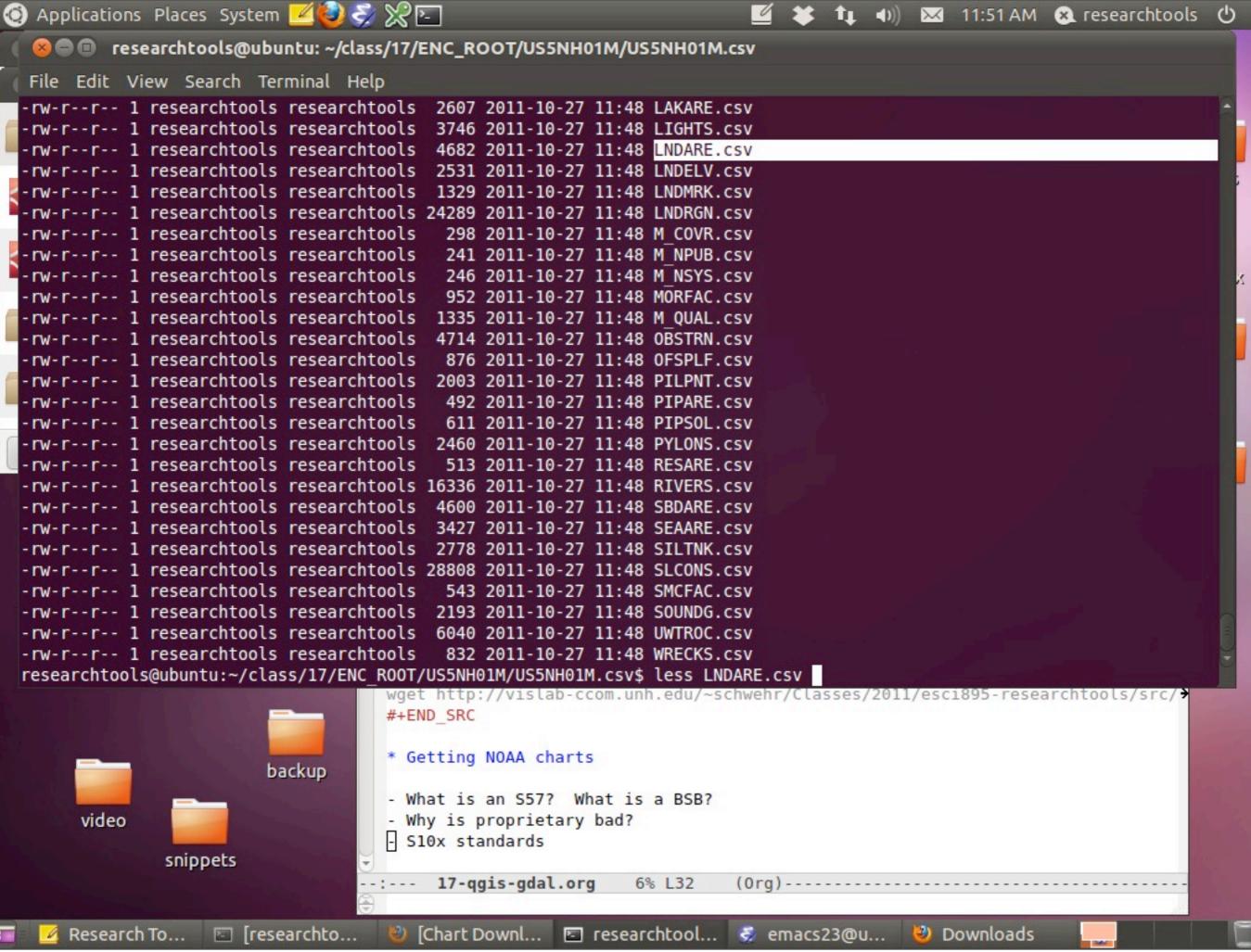
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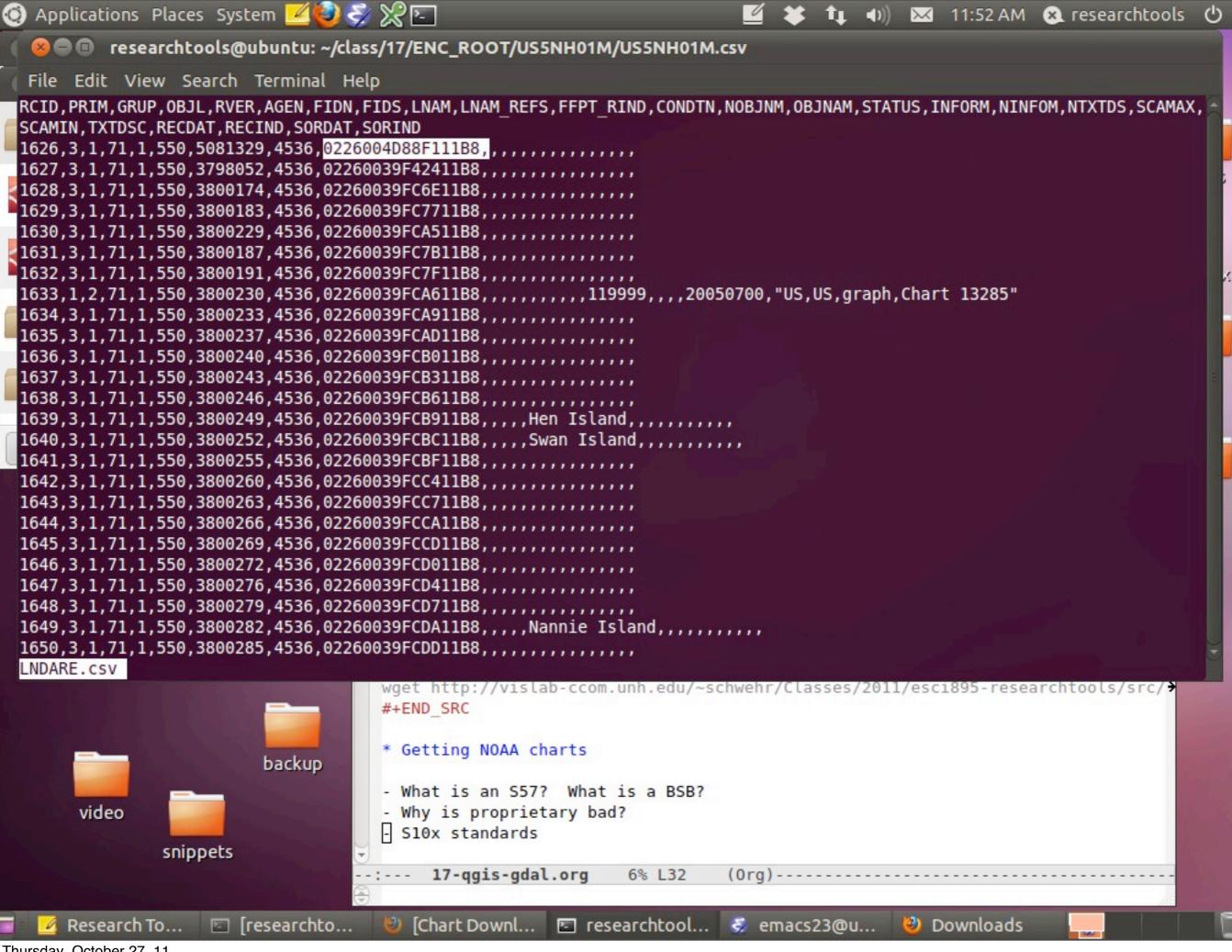
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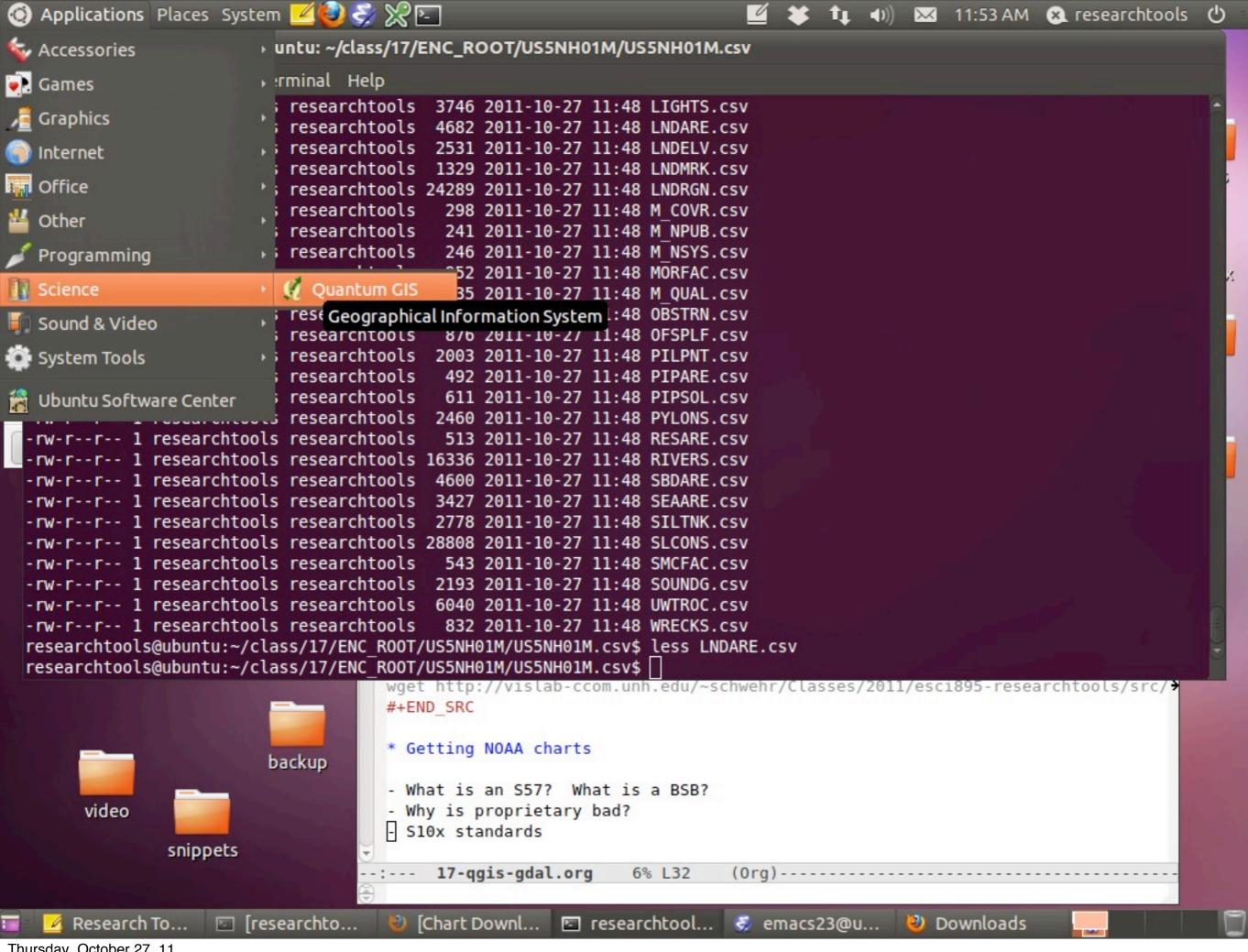


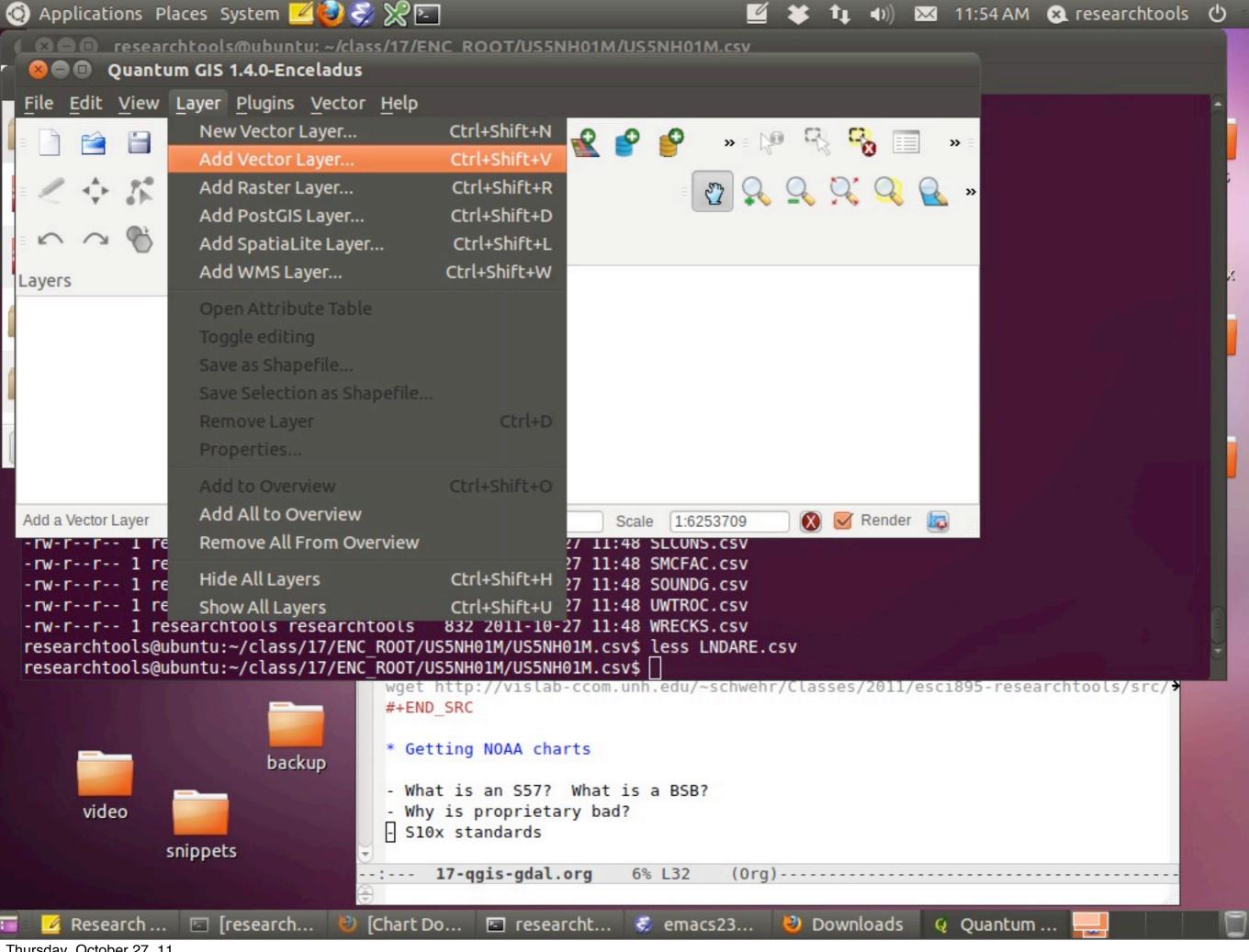
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 -lco NAME=VALUE: Layer creation option (format specific) -nln name: Assign an alternate name to the new layer -nlt type: Force a geometry type for new layer. One of NONE, GEOMETRY, POINT, LINESTRING, POLYGON, GEOMETRYCOLLECTION, MULTIPOINT, MULTIPOLYGON, or MULTILINESTRING. Add "25D" for 3D layers. Default is type of source layer. -a_srs srs_def: Assign an output SRS -t_srs srs_def: Reproject/transform to this SRS on output -s_srs srs_def: Override source SRS 						
Srs_def can be a full WKT definition (hard to escape properly), or a well known definition (ie. EPSG:4326) or a file with a WKT definition.						
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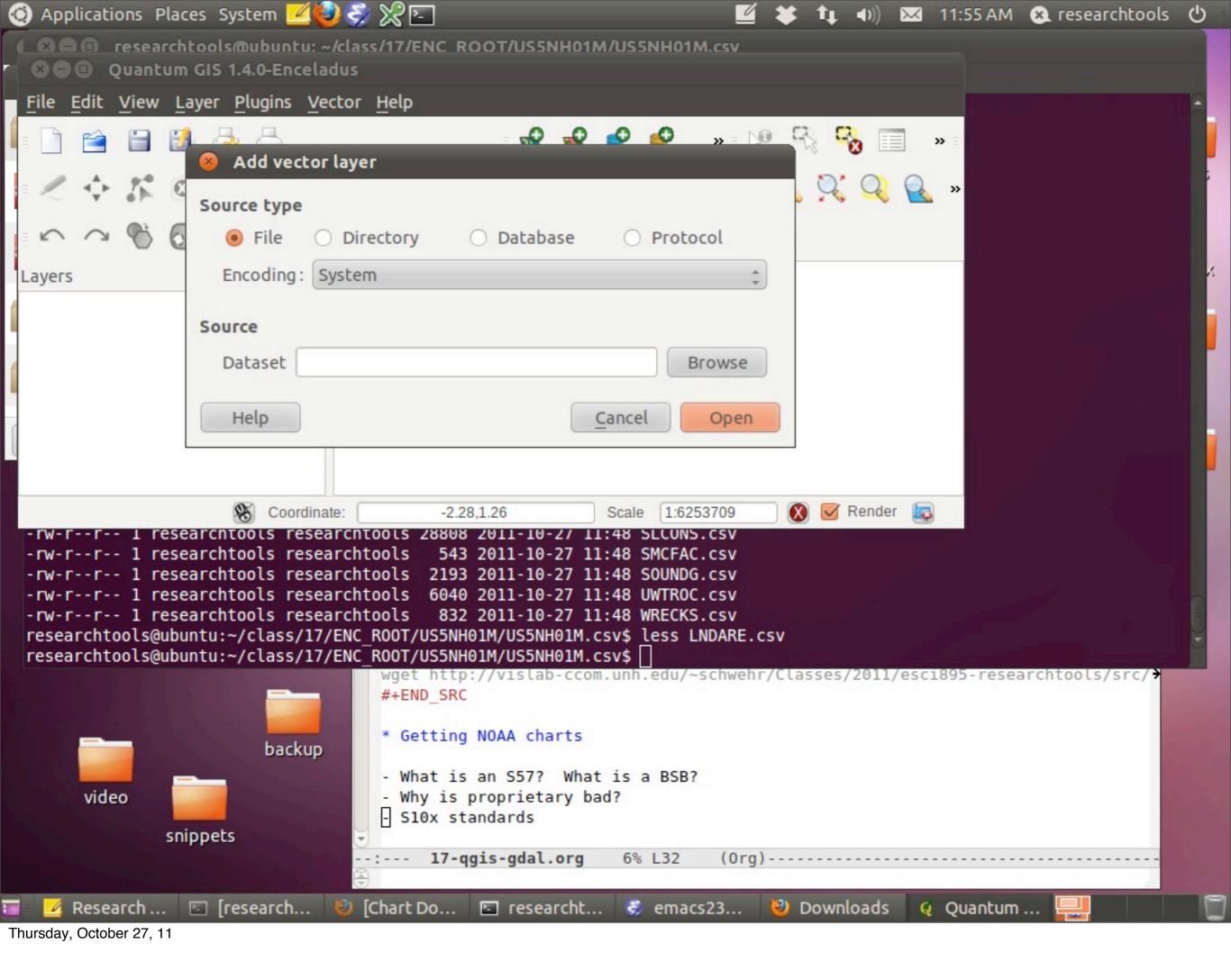


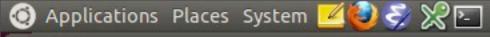






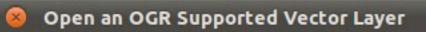




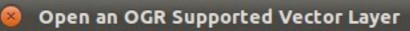


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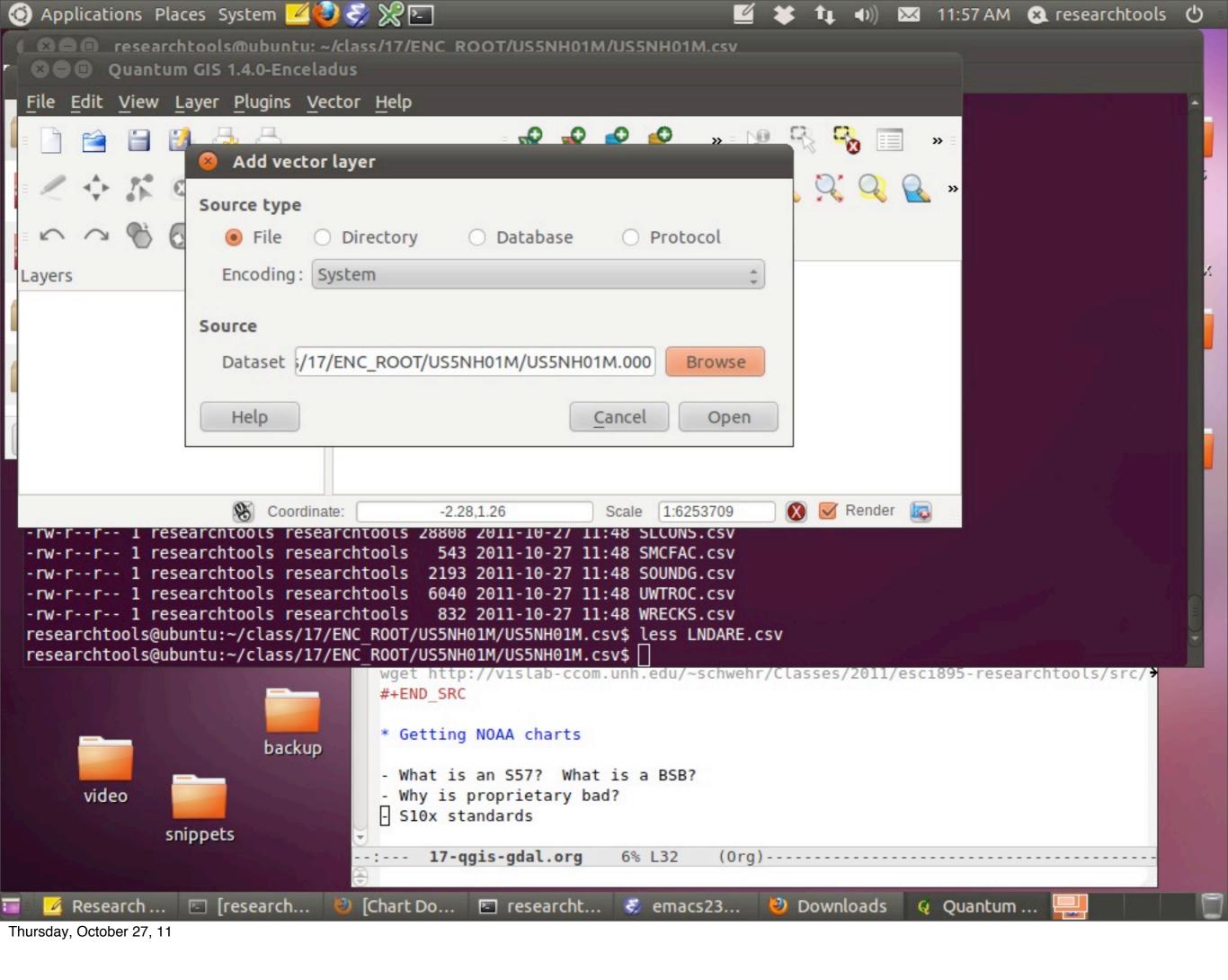
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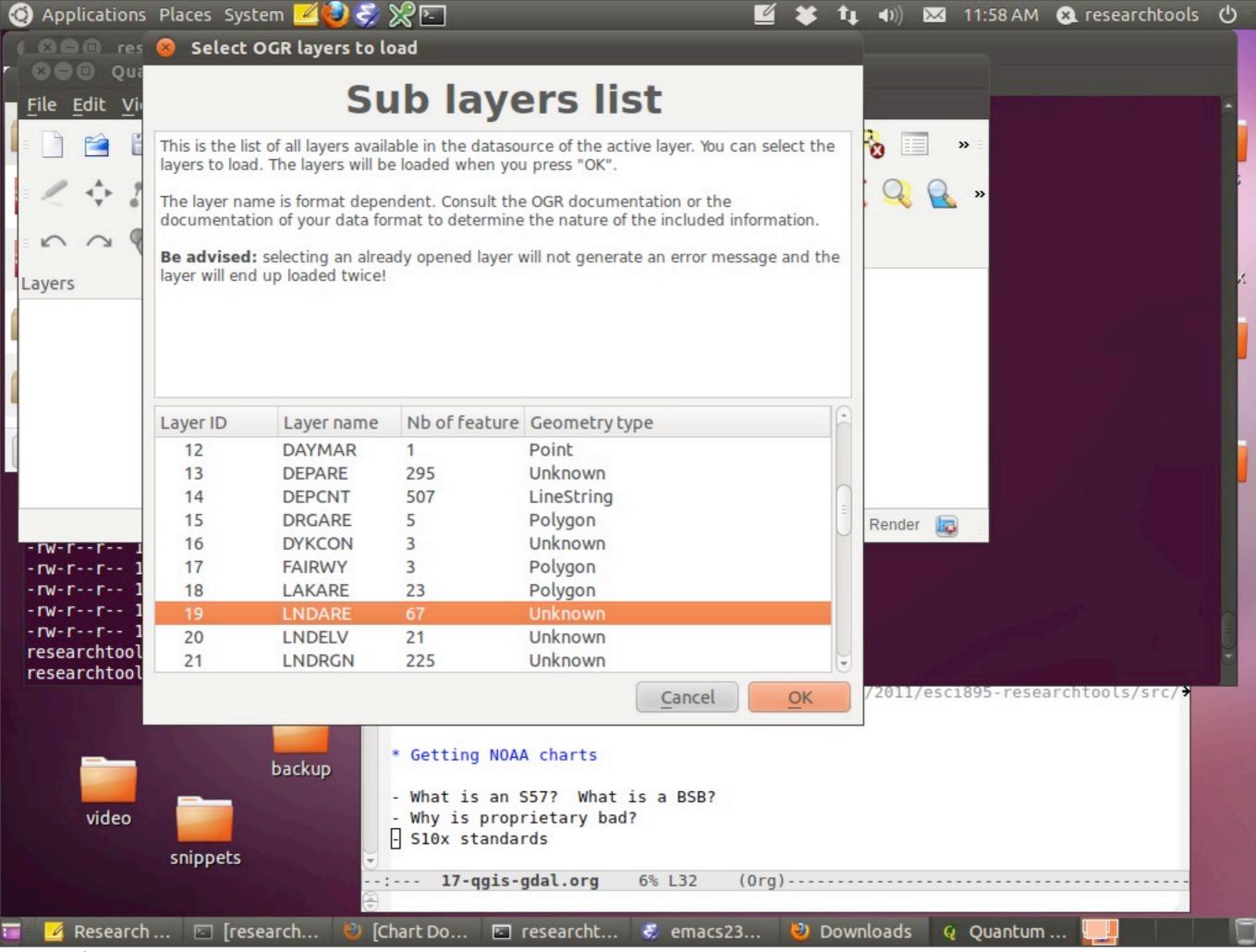


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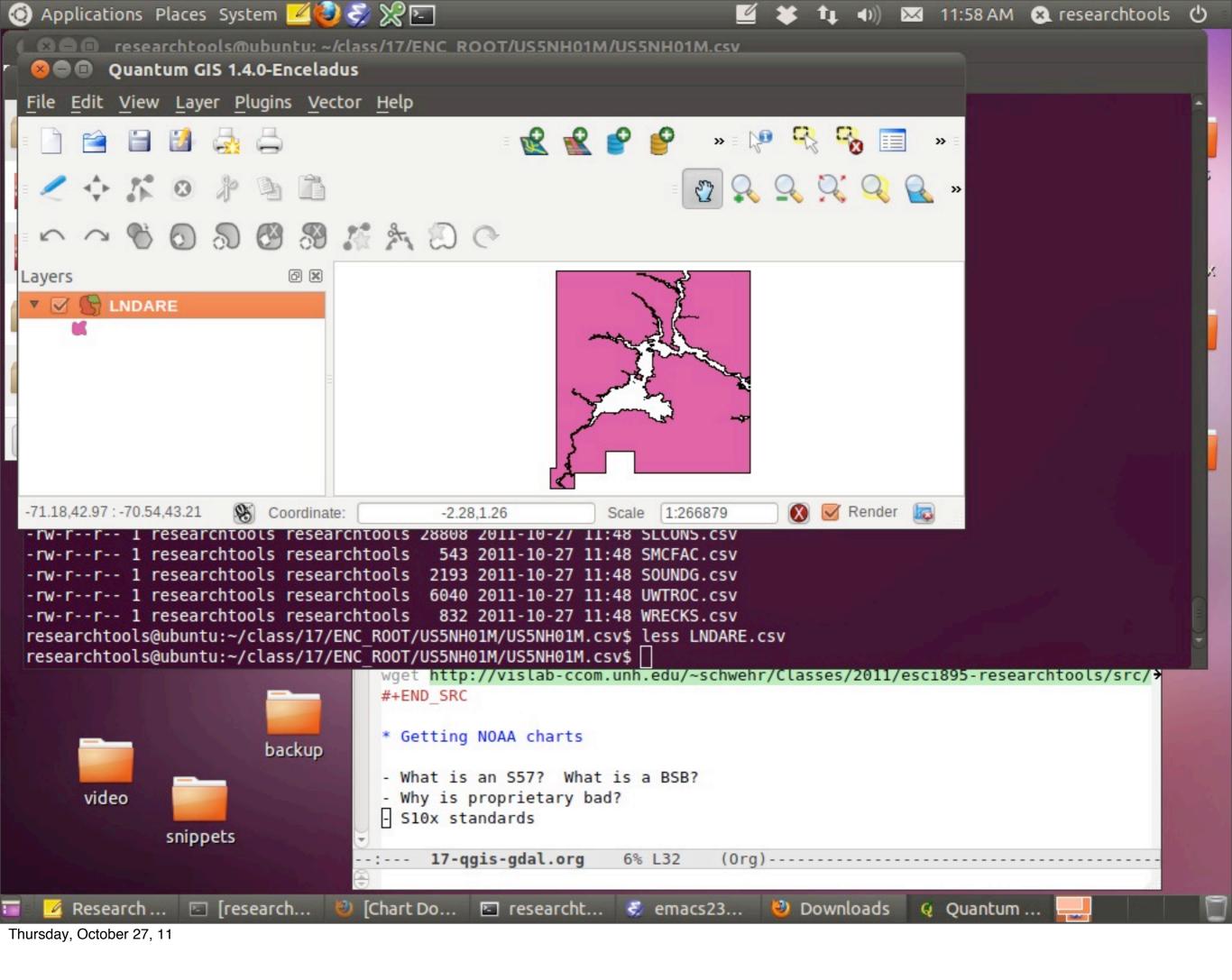


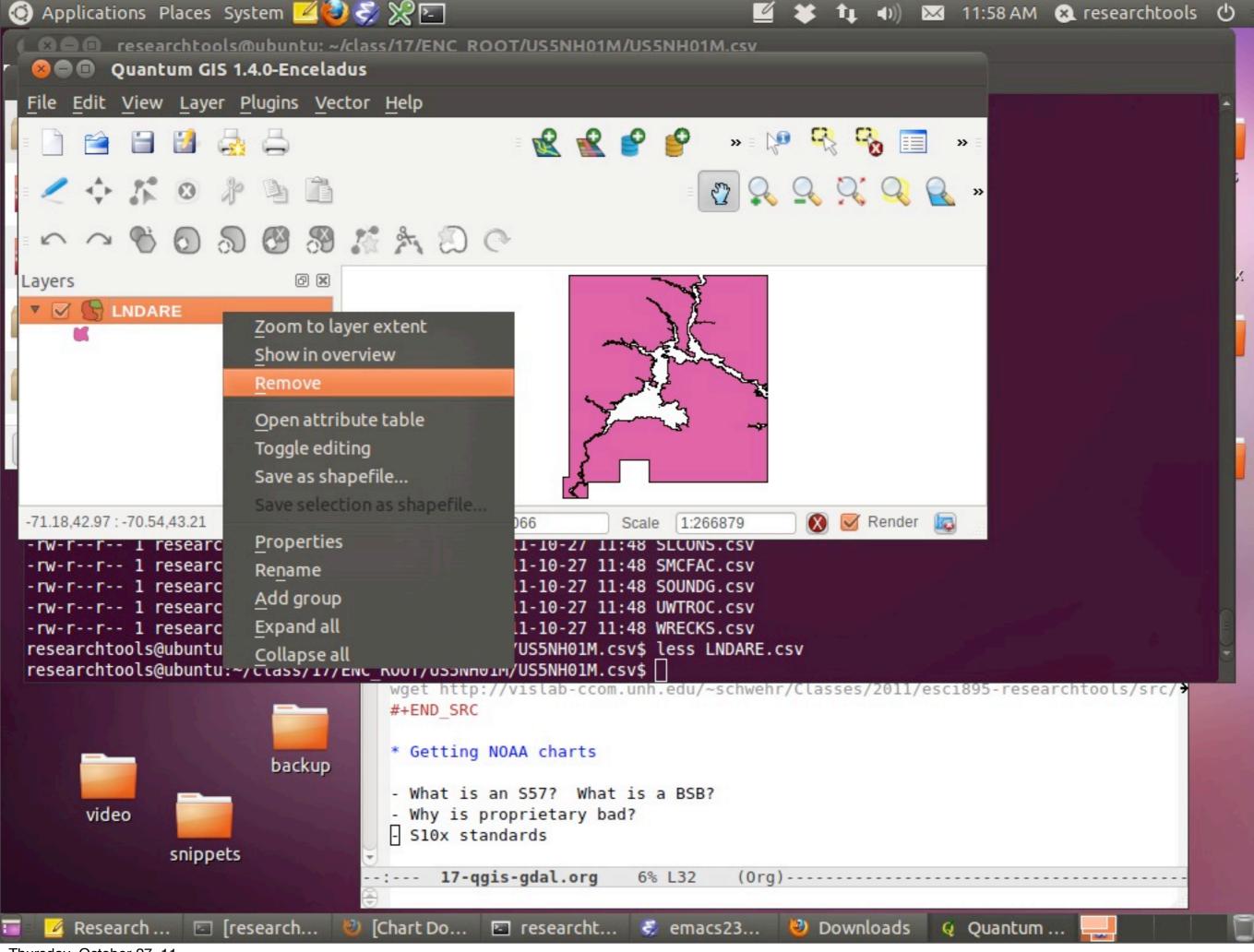
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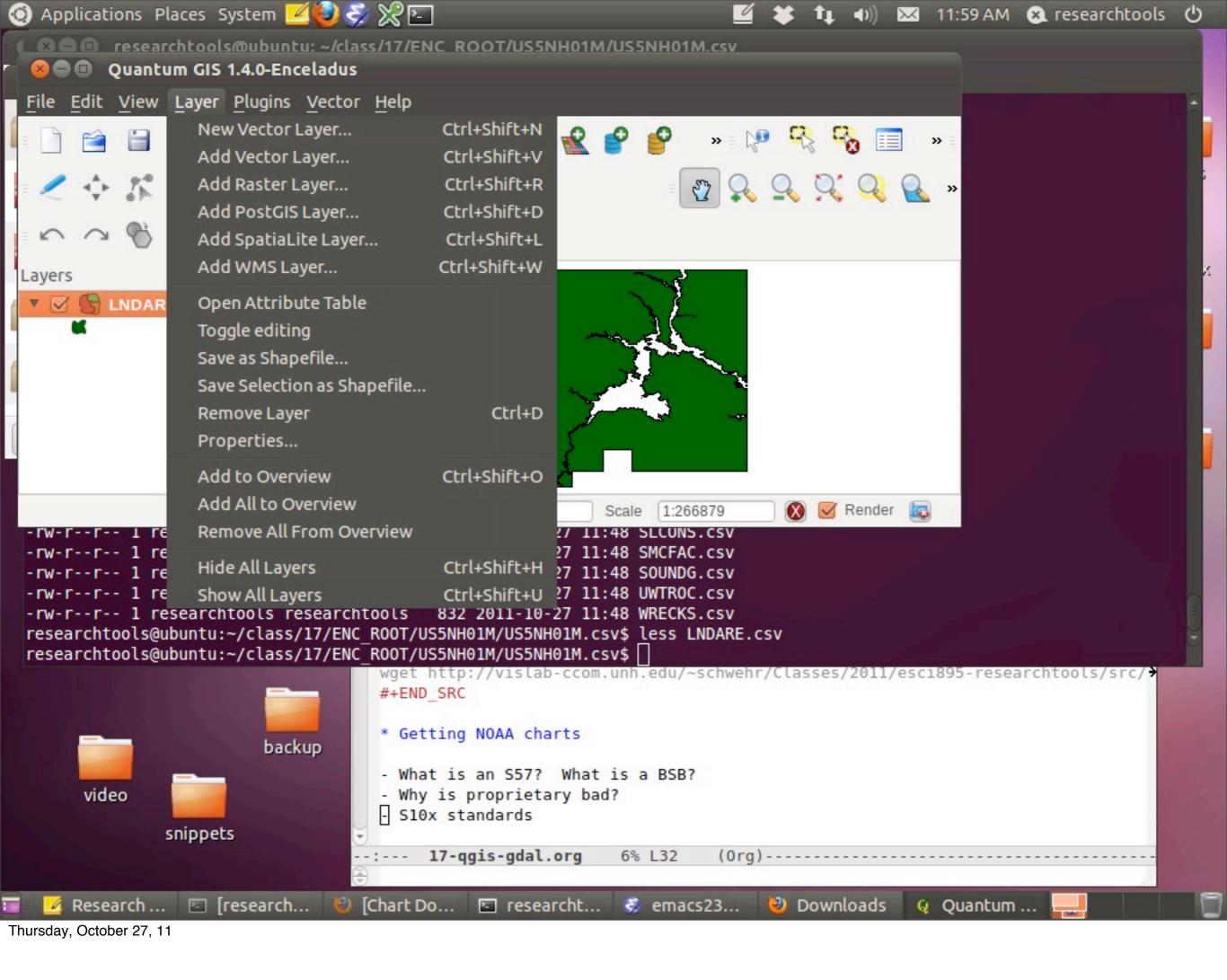
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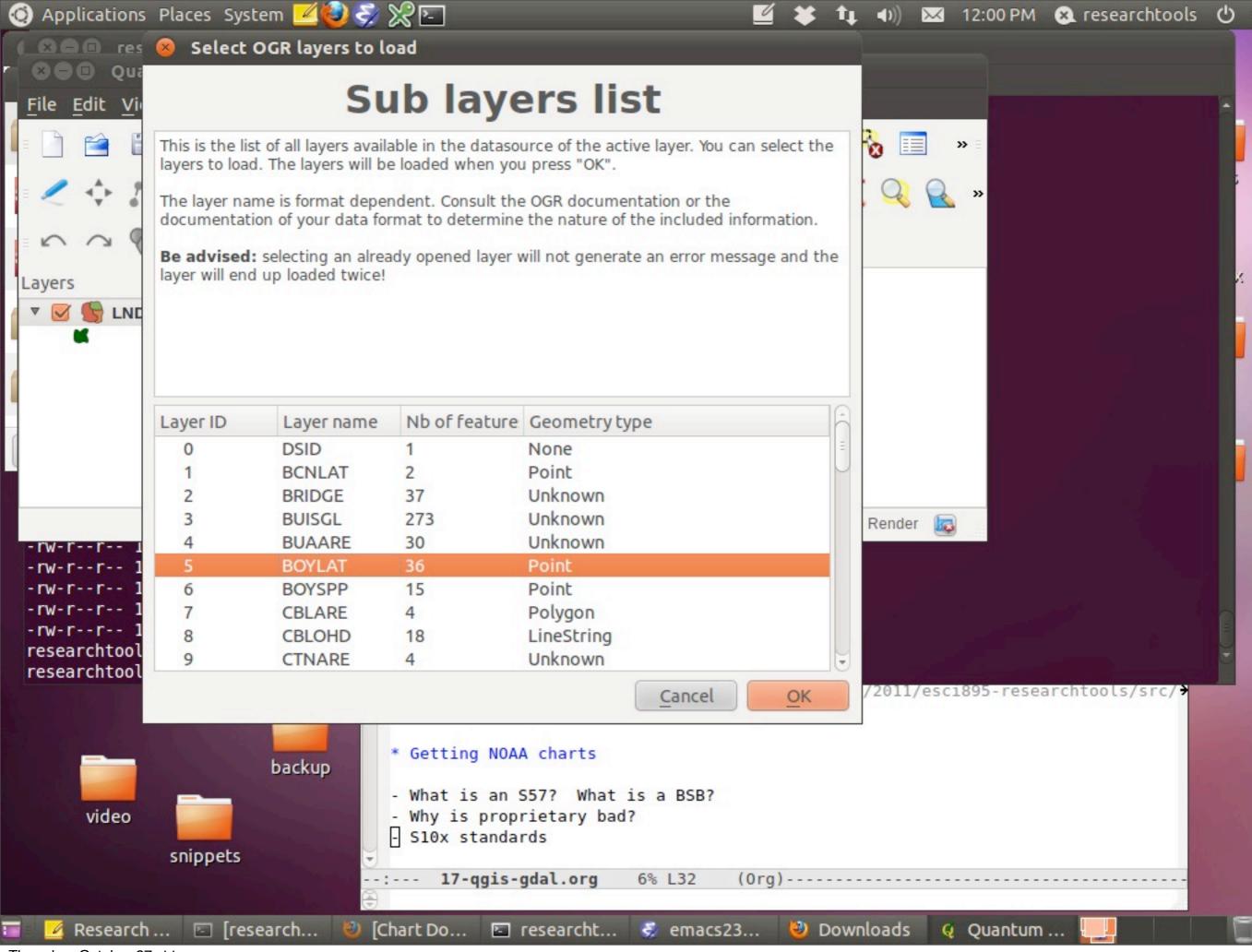




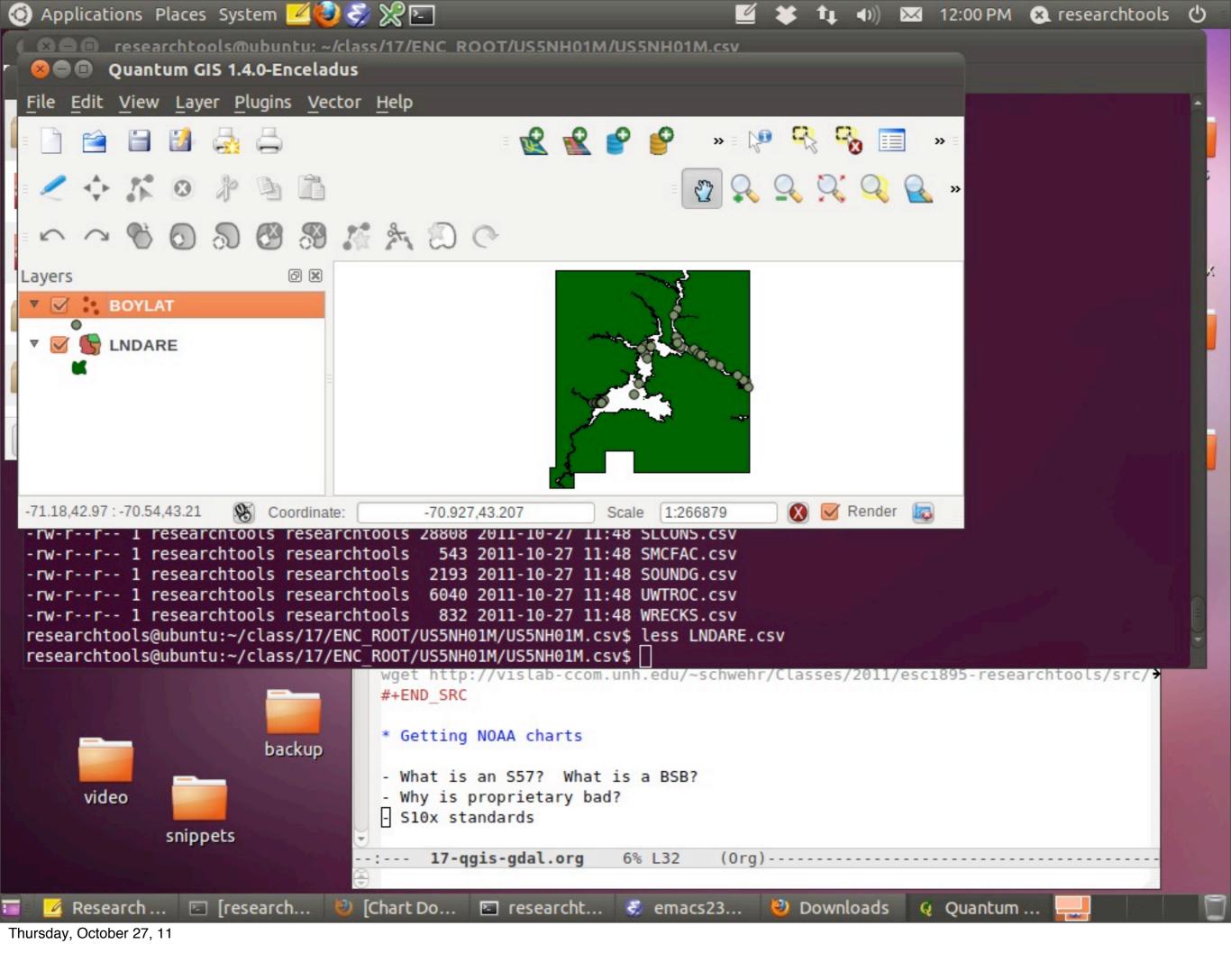
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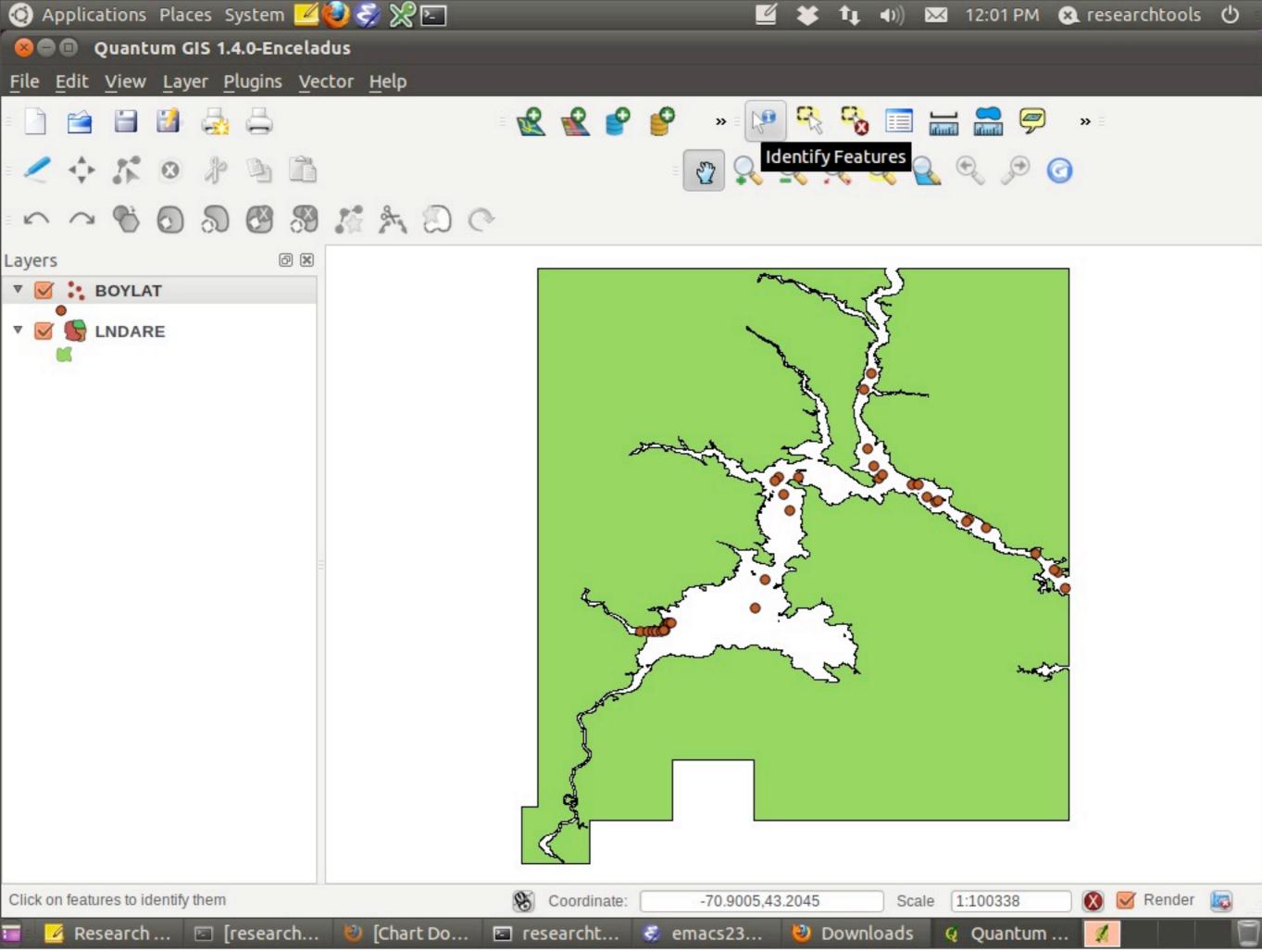
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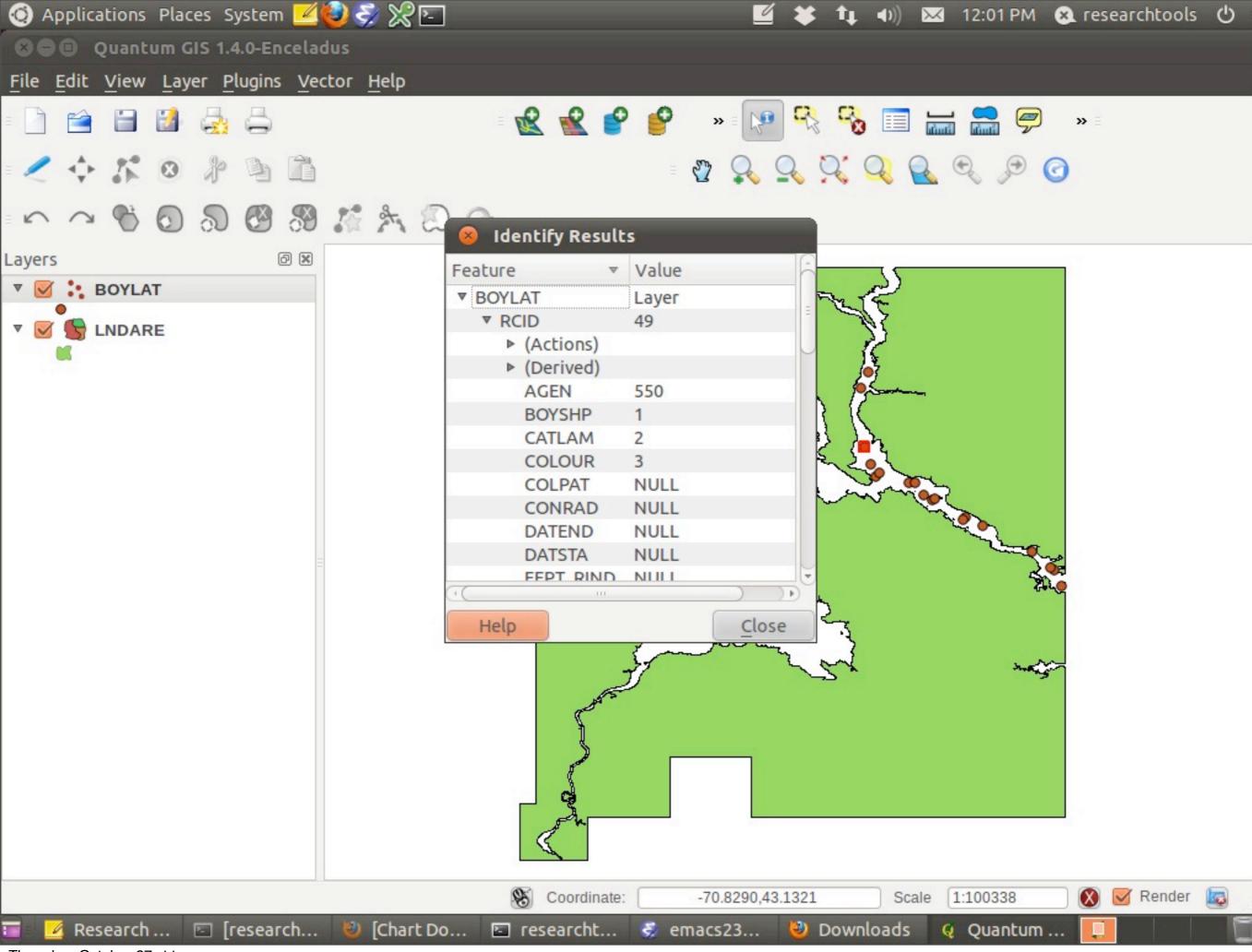


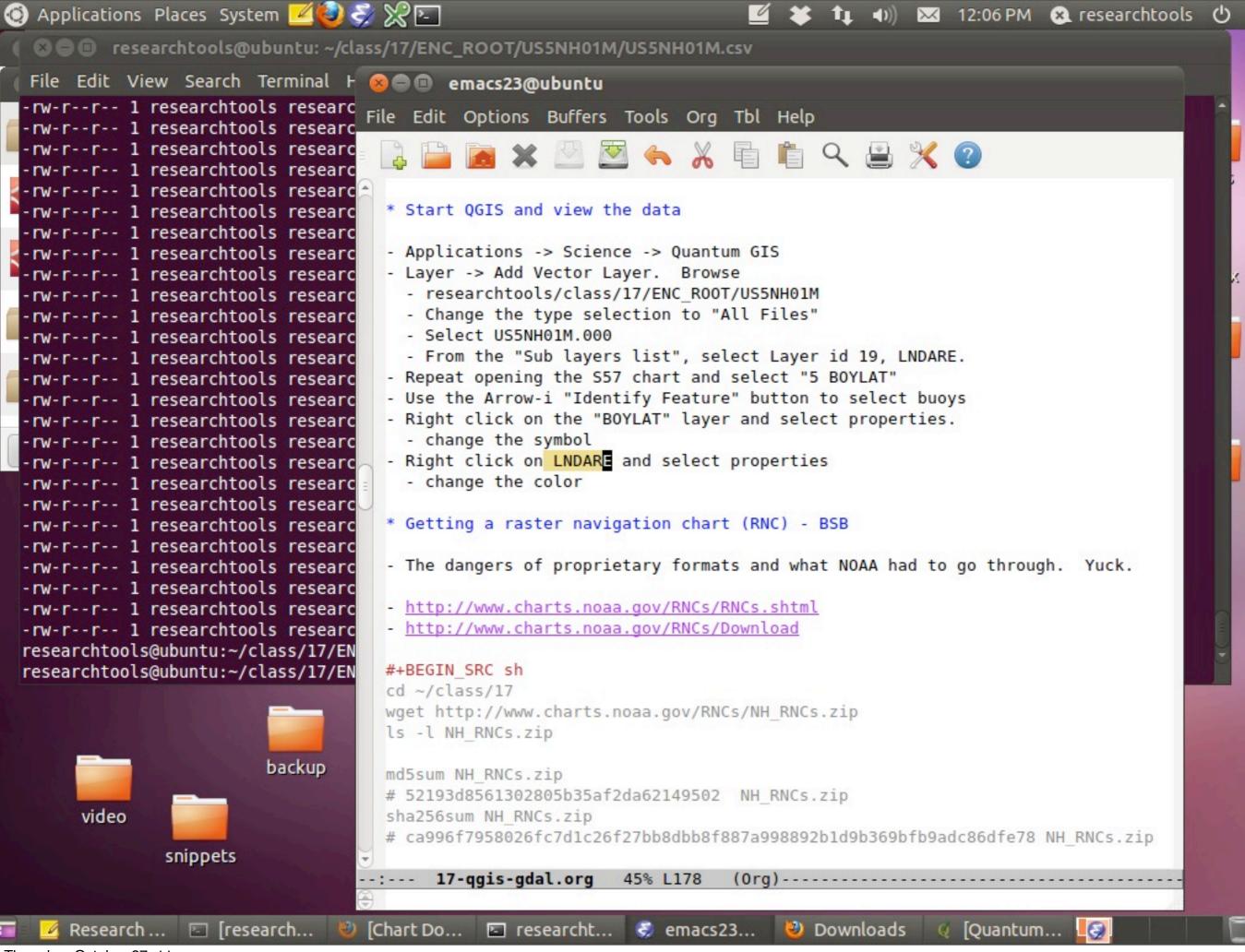


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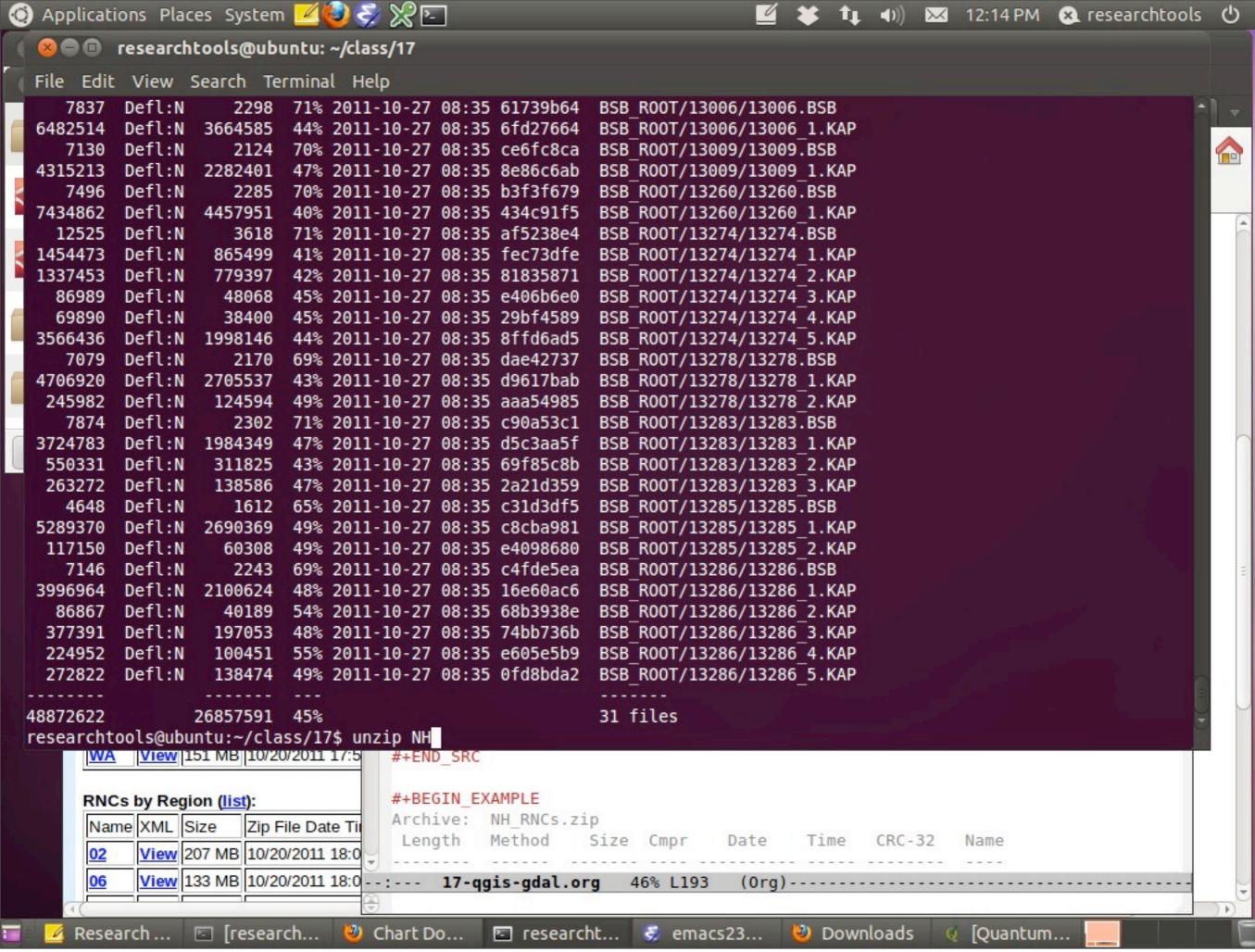




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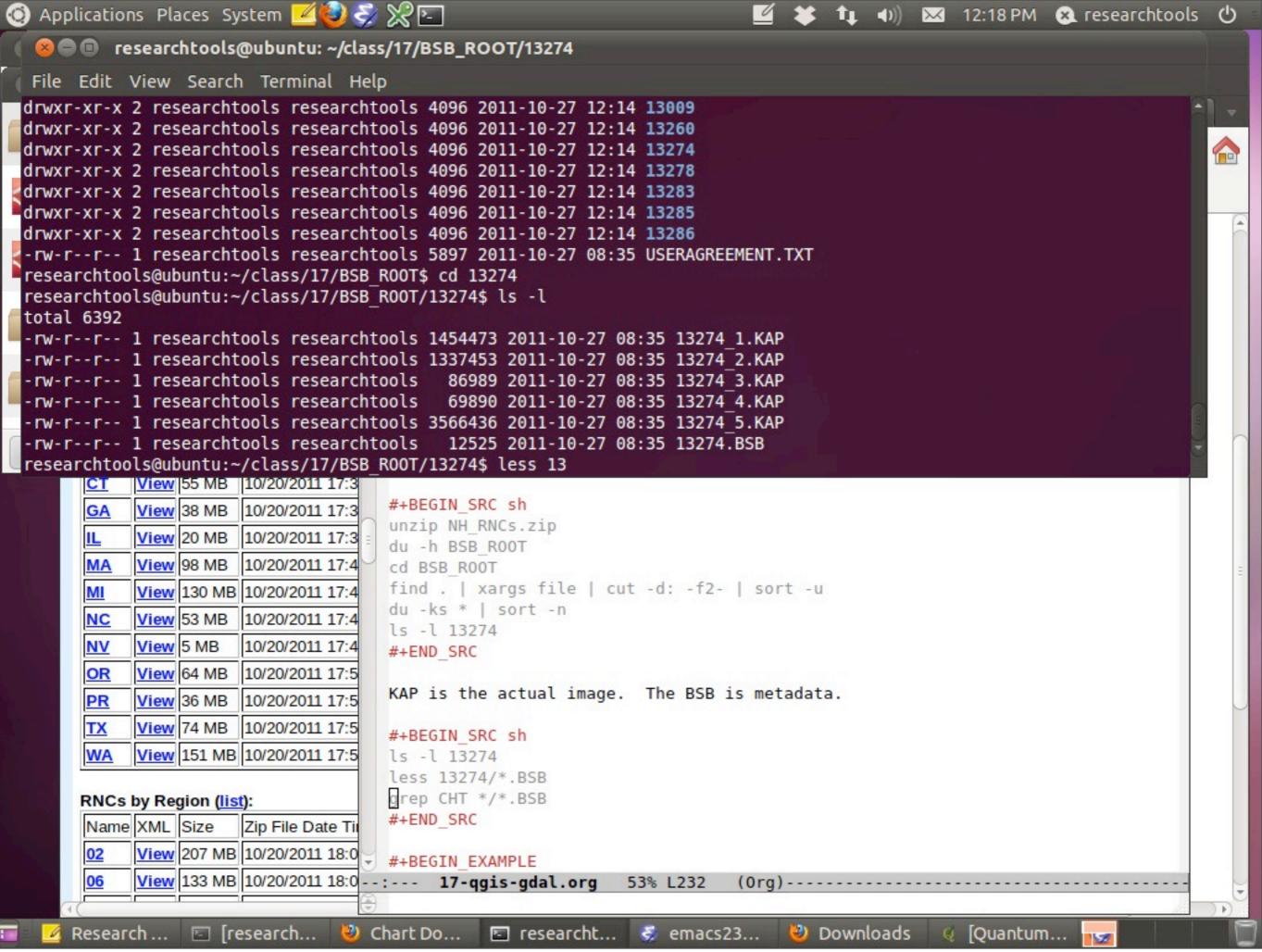
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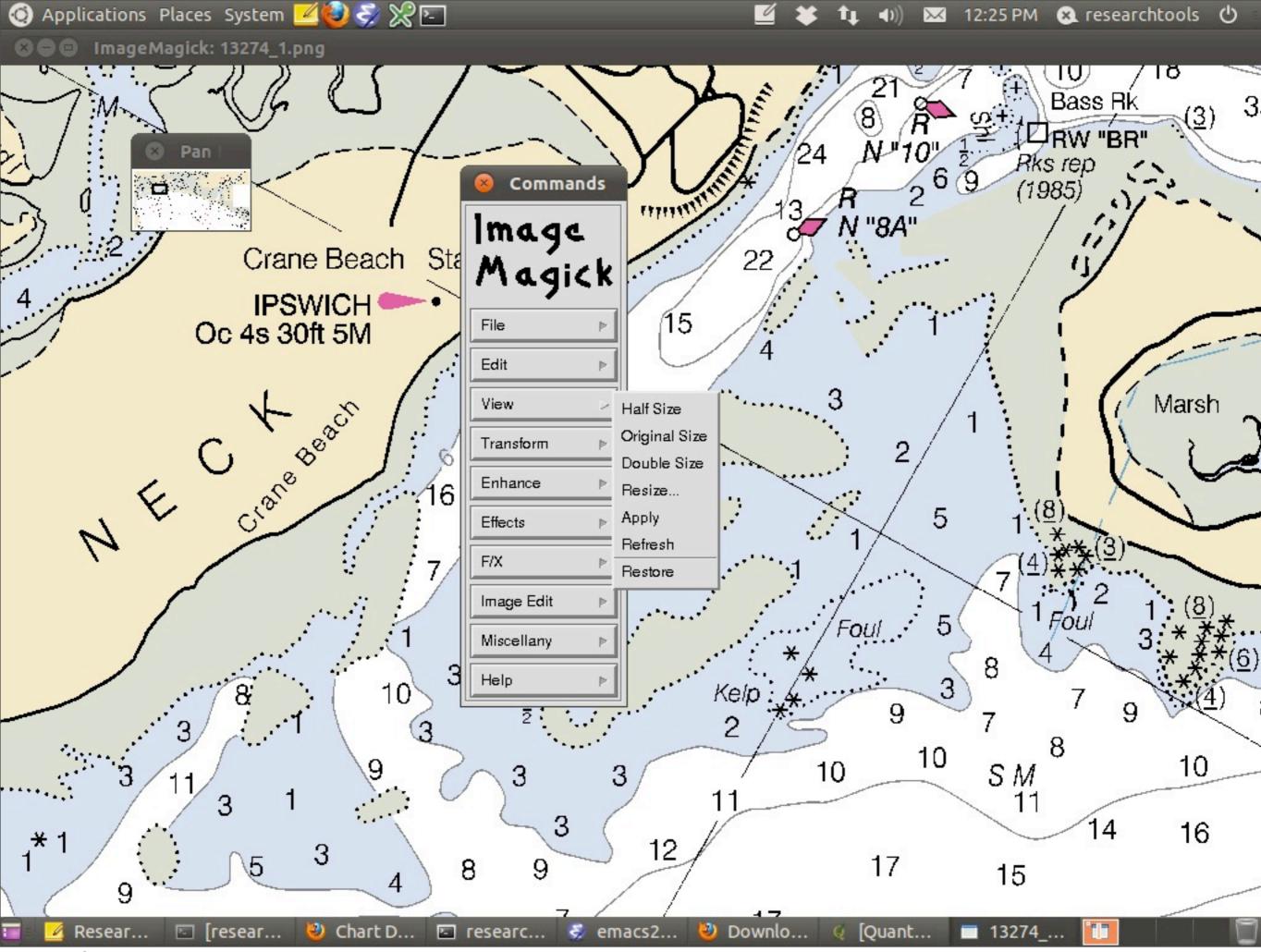
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./13260/13260.BSB:CHT/NA=BAY OF FUNDY - CAPE COD ME-NH-MA,NU=13260	
./13009/13009.BSB:CHT/NA=GULF OF MAINE AND GEORGES BANK,NU=13009	
./13274/13274.BSB:CHT/NA=CAPE ANN TO HAMPTON HARBOR SIDE A LEFT,NU=13274 ./13285/13285.BSB:CHT/NA=PORTSMOUTH TO DOVER AND EXETER,NU=13285	
./13283/13283.BSB:CHT/NA=PORTSMOUTH HBR CAPE NEDDICK HBR TO ISLES OF SHOALS,NU=13283	
./13278/13278.BSB:CHT/NA=PORTSMOUTH TO CAPE ANN NH-MA-ME,NU=13278	
./13006/13006.BSB:CHT/NA=WEST QUODDY HEAD TO NEW YORK-EAST COAST,NU=13006 ./13286/13286.BSB:CHT/NA=CAPE ELIZABETH TO PORTSMOUTH,NU=13286	
researchtools@ubuntu:~/class/17/BSB R00T\$	
CT View 55 MB 10/20/2011 17:3	
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MA View 98 MB 10/20/2011 17:4 cd BSB_R00T	Ξ
MI View 130 MB 10/20/2011 17:4 find . xargs file cut -d: -f2- sort -u	
NC View 53 MB 10/20/2011 17:4 du -ks * sort -n Ls - L 13274	
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less 13274/*.BSB	
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./13278/13278.BSB:CHT/NA=PORTSMOUTH TO CAPE ANN NH-MA-ME,NU=13278	
./13006/13006.BSB:CHT/NA=WEST QUODDY HEAD TO NEW YORK-EAST COAST,NU=13006	
<pre>./13286/13286.BSB:CHT/NA=CAPE ELIZABETH TO PORTSMOUTH,NU=13286 researchtools@ubuntu:~/class/17/BSB R00T\$ cd 13274</pre>	
researchtools@ubuntu:~/class/17/BSB_R00T/13274\$ clear	
<pre>researchtools@ubuntu:~/class/17/BSB_R00T/13274\$ gdalinfoformats Supported Formats:</pre>	
VRT (rw+): Virtual Raster	
GTiff (rw+): GeoTIFF	
NITF (rw+): National Imagery Transmission Format	
RPFTOC (ro): Raster Product Format TOC format	
HFA (rw+): Erdas Imagine Images (.img) SAR CEOS (ro): CEOS SAR Image	
CEOS (ro): CEOS Image	
JAXAPALSAR (ro): JAXA PALSAR Product Reader (Level 1.1/1.5)	
GFF (ro): Ground-based SAR Applications Testbed File Format (.gff)	
ELAS (rw+): ELAS	
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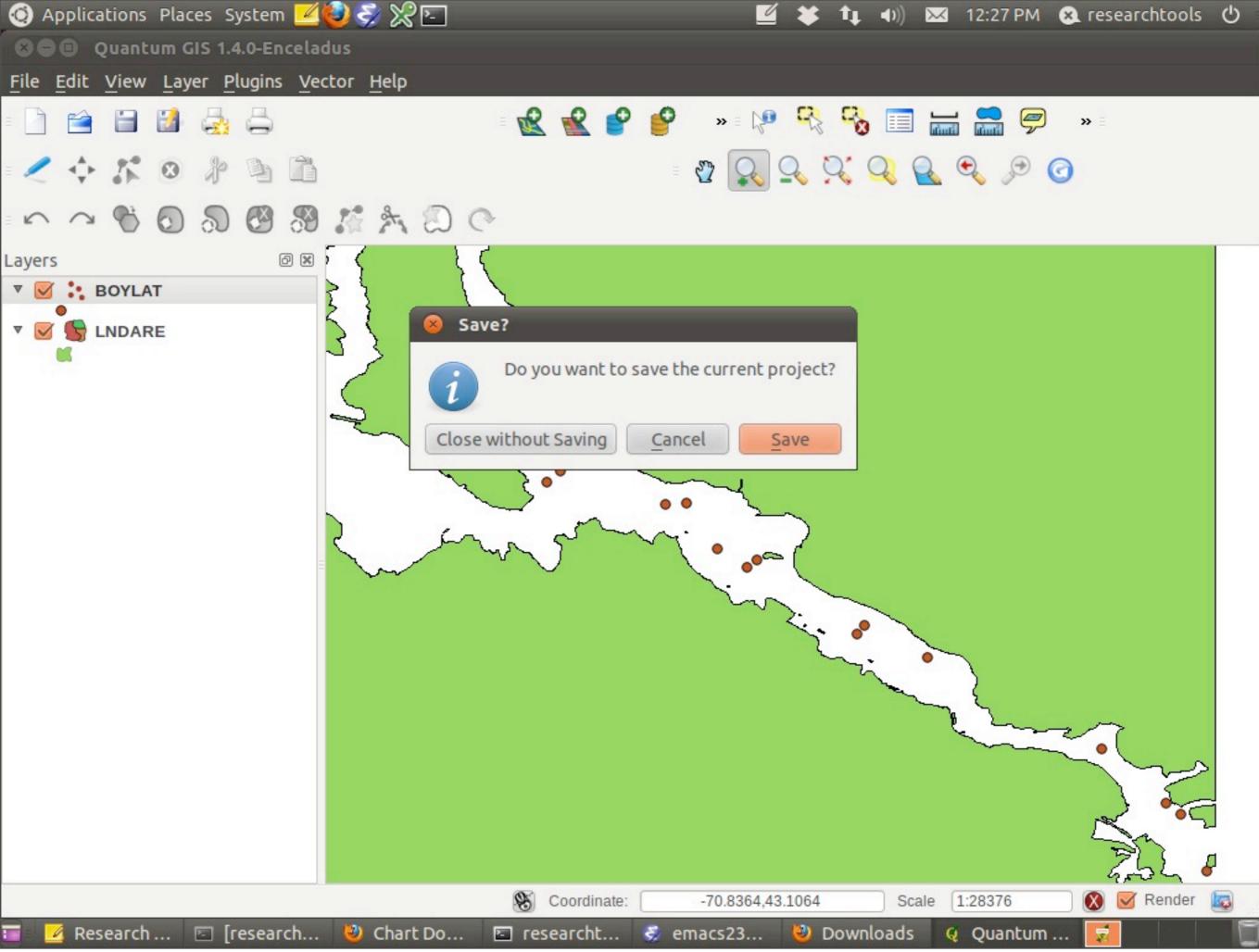
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13274_1.KAP 13274_2.KAP 13274_3.KAP 13274_4.KAP 13274_5.KAP 13274.BSB	<u>a</u> l -
researchtools@ubuntu:~/class/17/BSB_ROOT/13274\$ gdalinfo 13274_1.KAP	
Driver: BSB/Maptech BSB Nautical Charts Files: 13274 1.KAP	
Size is 7543, 3912	
Coordinate System is `'	
GCP Projection = PROJCS["Global Mercator",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137,298.257223563] RIMEM["Greenwich",0],UNIT["degree",0.01745329251994328]],PROJECTION["Mercator 2SP"],PARAMETER["standard parallel 1"	
, PARAMETER["latitude_of_origin",0], PARAMETER["central_meridian",-70], PARAMETER["false_easting",0], PARAMETER["false_	
thing",0],UNIT["Meter",1]]	
GCP[0]: Id=GCP_1, Info= (129,3829) -> (-68558.8913923087,5235404.38914474,0)	
GCP[1]: Id=GCP 2, Info=	
(129,2634) -> (-74213.9215246061,5232226.59286988,0)	
GCP[2]: Id=GCP_3, Info=	
(6,2565) -> (-74214.8491833188,5231456.92728109,0) GCP[3]: Id=GCP 4, Info=	
(129,2343) -> (-75589.9541178975,5231451.06180886,0)	
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<pre>researchtools@ubuntu:~/class/17/BSB_R00T/13274\$ ls -l total 8560</pre>	
-rw-rr 1 researchtools researchtools 1454473 2011-10-27 08:35 13274_1	
-rw-rr 1 researchtools researchtools 1127790 2011-10-27 12:24 13274_1 -rw-rr 1 researchtools researchtools 10245 2011-10-27 12:24 13274 1	
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