GROUP = L1\_METADATA\_FILE

GROUP = METADATA\_FILE\_INFO

ORIGIN = "Image courtesy of the U.S. Geological Survey"

REQUEST\_ID = "0501306074452\_00029"

LANDSAT\_SCENE\_ID = "LC82250862013158LGN00"

FILE\_DATE = 2013-06-07T21:31:17Z

STATION\_ID = "LGN"

PROCESSING\_SOFTWARE\_VERSION = "LPGS\_2.2.2"

END\_GROUP = METADATA\_FILE\_INFO

GROUP = PRODUCT\_METADATA

DATA\_TYPE = "L1T"

ELEVATION\_SOURCE = "GLS2000"

OUTPUT\_FORMAT = "GEOTIFF"

SPACECRAFT\_ID = "LANDSAT\_8"

SENSOR\_ID = "OLI\_TIRS"

WRS\_PATH = 225

WRS\_ROW = 86

NADIR\_OFFNADIR = "NADIR"

TARGET\_WRS\_PATH = 225

TARGET\_WRS\_ROW = 86

DATE\_ACQUIRED = 2013-06-07

SCENE\_CENTER\_TIME = 13:47:27.7178153Z

CORNER\_UL\_LAT\_PRODUCT = -36.45820

CORNER\_UL\_LON\_PRODUCT = -60.83160

CORNER\_UR\_LAT\_PRODUCT = -36.51273

CORNER\_UR\_LON\_PRODUCT = -58.29547

CORNER\_LL\_LAT\_PRODUCT = -38.42227

CORNER\_LL\_LON\_PRODUCT = -60.93324

CORNER\_LR\_LAT\_PRODUCT = -38.48079

CORNER\_LR\_LON\_PRODUCT = -58.32993

CORNER\_UL\_PROJECTION\_X\_PRODUCT = 156600.000

CORNER\_UL\_PROJECTION\_Y\_PRODUCT = -4041600.000

CORNER\_UR\_PROJECTION\_X\_PRODUCT = 384000.000

CORNER\_UR\_PROJECTION\_Y\_PRODUCT = -4041600.000

CORNER\_LL\_PROJECTION\_X\_PRODUCT = 156600.000

CORNER\_LL\_PROJECTION\_Y\_PRODUCT = -4260000.000

CORNER\_LR\_PROJECTION\_X\_PRODUCT = 384000.000

CORNER\_LR\_PROJECTION\_Y\_PRODUCT = -4260000.000

PANCHROMATIC\_LINES = 14561

PANCHROMATIC\_SAMPLES = 15161

REFLECTIVE\_LINES = 7281

REFLECTIVE\_SAMPLES = 7581

THERMAL\_LINES = 7281

THERMAL\_SAMPLES = 7581

FILE\_NAME\_BAND\_1 = "LC82250862013158LGN00\_B1.TIF"

FILE\_NAME\_BAND\_2 = "LC82250862013158LGN00\_B2.TIF"

FILE\_NAME\_BAND\_3 = "LC82250862013158LGN00\_B3.TIF"

FILE\_NAME\_BAND\_4 = "LC82250862013158LGN00\_B4.TIF"

FILE\_NAME\_BAND\_5 = "LC82250862013158LGN00\_B5.TIF"

FILE\_NAME\_BAND\_6 = "LC82250862013158LGN00\_B6.TIF"

FILE\_NAME\_BAND\_7 = "LC82250862013158LGN00\_B7.TIF"

FILE\_NAME\_BAND\_8 = "LC82250862013158LGN00\_B8.TIF"

FILE\_NAME\_BAND\_9 = "LC82250862013158LGN00\_B9.TIF"

FILE\_NAME\_BAND\_10 = "LC82250862013158LGN00\_B10.TIF"

FILE\_NAME\_BAND\_11 = "LC82250862013158LGN00\_B11.TIF"

FILE\_NAME\_BAND\_QUALITY = "LC82250862013158LGN00\_BQA.TIF"

METADATA\_FILE\_NAME = "LC82250862013158LGN00\_MTL.txt"

BPF\_NAME\_OLI = "LO8BPF20130607133521\_20130607135333.03"

BPF\_NAME\_TIRS = "LT8BPF20130607133128\_20130607135425.02"

CPF\_NAME = "L8CPF20130401\_20130630.04"

RLUT\_FILE\_NAME = "L8RLUT20130211\_20431231v06.h5"

END\_GROUP = PRODUCT\_METADATA

GROUP = IMAGE\_ATTRIBUTES

CLOUD\_COVER = 0.12

IMAGE\_QUALITY\_OLI = 9

IMAGE\_QUALITY\_TIRS = 9

ROLL\_ANGLE = -0.001

SUN\_AZIMUTH = 32.40055659

SUN\_ELEVATION = 22.59007584

EARTH\_SUN\_DISTANCE = 1.0149536

GROUND\_CONTROL\_POINTS\_MODEL = 140

GEOMETRIC\_RMSE\_MODEL = 9.669

GEOMETRIC\_RMSE\_MODEL\_Y = 6.804

GEOMETRIC\_RMSE\_MODEL\_X = 6.870

END\_GROUP = IMAGE\_ATTRIBUTES

GROUP = MIN\_MAX\_RADIANCE

RADIANCE\_MAXIMUM\_BAND\_1 = 758.25006

RADIANCE\_MINIMUM\_BAND\_1 = -62.61654

RADIANCE\_MAXIMUM\_BAND\_2 = 773.21558

RADIANCE\_MINIMUM\_BAND\_2 = -63.85239

RADIANCE\_MAXIMUM\_BAND\_3 = 708.00458

RADIANCE\_MINIMUM\_BAND\_3 = -58.46725

RADIANCE\_MAXIMUM\_BAND\_4 = 599.63654

RADIANCE\_MINIMUM\_BAND\_4 = -49.51818

RADIANCE\_MAXIMUM\_BAND\_5 = 363.86615

RADIANCE\_MINIMUM\_BAND\_5 = -30.04818

RADIANCE\_MAXIMUM\_BAND\_6 = 91.67610

RADIANCE\_MINIMUM\_BAND\_6 = -7.57064

RADIANCE\_MAXIMUM\_BAND\_7 = 29.82207

RADIANCE\_MINIMUM\_BAND\_7 = -2.46272

RADIANCE\_MAXIMUM\_BAND\_8 = 675.45264

RADIANCE\_MINIMUM\_BAND\_8 = -55.77910

RADIANCE\_MAXIMUM\_BAND\_9 = 149.52769

RADIANCE\_MINIMUM\_BAND\_9 = -12.34805

RADIANCE\_MAXIMUM\_BAND\_10 = 22.00180

RADIANCE\_MINIMUM\_BAND\_10 = 0.10033

RADIANCE\_MAXIMUM\_BAND\_11 = 22.00180

RADIANCE\_MINIMUM\_BAND\_11 = 0.10033

END\_GROUP = MIN\_MAX\_RADIANCE

GROUP = MIN\_MAX\_REFLECTANCE

REFLECTANCE\_MAXIMUM\_BAND\_1 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_1 = -0.099980

REFLECTANCE\_MAXIMUM\_BAND\_2 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_2 = -0.099980

REFLECTANCE\_MAXIMUM\_BAND\_3 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_3 = -0.099980

REFLECTANCE\_MAXIMUM\_BAND\_4 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_4 = -0.099980

REFLECTANCE\_MAXIMUM\_BAND\_5 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_5 = -0.099980

REFLECTANCE\_MAXIMUM\_BAND\_6 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_6 = -0.099980

REFLECTANCE\_MAXIMUM\_BAND\_7 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_7 = -0.099980

REFLECTANCE\_MAXIMUM\_BAND\_8 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_8 = -0.099980

REFLECTANCE\_MAXIMUM\_BAND\_9 = 1.210700

REFLECTANCE\_MINIMUM\_BAND\_9 = -0.099980

END\_GROUP = MIN\_MAX\_REFLECTANCE

GROUP = MIN\_MAX\_PIXEL\_VALUE

QUANTIZE\_CAL\_MAX\_BAND\_1 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_1 = 1

QUANTIZE\_CAL\_MAX\_BAND\_2 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_2 = 1

QUANTIZE\_CAL\_MAX\_BAND\_3 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_3 = 1

QUANTIZE\_CAL\_MAX\_BAND\_4 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_4 = 1

QUANTIZE\_CAL\_MAX\_BAND\_5 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_5 = 1

QUANTIZE\_CAL\_MAX\_BAND\_6 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_6 = 1

QUANTIZE\_CAL\_MAX\_BAND\_7 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_7 = 1

QUANTIZE\_CAL\_MAX\_BAND\_8 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_8 = 1

QUANTIZE\_CAL\_MAX\_BAND\_9 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_9 = 1

QUANTIZE\_CAL\_MAX\_BAND\_10 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_10 = 1

QUANTIZE\_CAL\_MAX\_BAND\_11 = 65535

QUANTIZE\_CAL\_MIN\_BAND\_11 = 1

END\_GROUP = MIN\_MAX\_PIXEL\_VALUE

GROUP = RADIOMETRIC\_RESCALING

RADIANCE\_MULT\_BAND\_1 = 1.2526E-02

RADIANCE\_MULT\_BAND\_2 = 1.2773E-02

RADIANCE\_MULT\_BAND\_3 = 1.1696E-02

RADIANCE\_MULT\_BAND\_4 = 9.9056E-03

RADIANCE\_MULT\_BAND\_5 = 6.0108E-03

RADIANCE\_MULT\_BAND\_6 = 1.5144E-03

RADIANCE\_MULT\_BAND\_7 = 4.9264E-04

RADIANCE\_MULT\_BAND\_8 = 1.1158E-02

RADIANCE\_MULT\_BAND\_9 = 2.4701E-03

RADIANCE\_MULT\_BAND\_10 = 3.3420E-04

RADIANCE\_MULT\_BAND\_11 = 3.3420E-04

RADIANCE\_ADD\_BAND\_1 = -62.62906

RADIANCE\_ADD\_BAND\_2 = -63.86516

RADIANCE\_ADD\_BAND\_3 = -58.47895

RADIANCE\_ADD\_BAND\_4 = -49.52809

RADIANCE\_ADD\_BAND\_5 = -30.05420

RADIANCE\_ADD\_BAND\_6 = -7.57216

RADIANCE\_ADD\_BAND\_7 = -2.46321

RADIANCE\_ADD\_BAND\_8 = -55.79026

RADIANCE\_ADD\_BAND\_9 = -12.35052

RADIANCE\_ADD\_BAND\_10 = 0.10000

RADIANCE\_ADD\_BAND\_11 = 0.10000

REFLECTANCE\_MULT\_BAND\_1 = 2.0000E-05

REFLECTANCE\_MULT\_BAND\_2 = 2.0000E-05

REFLECTANCE\_MULT\_BAND\_3 = 2.0000E-05

REFLECTANCE\_MULT\_BAND\_4 = 2.0000E-05

REFLECTANCE\_MULT\_BAND\_5 = 2.0000E-05

REFLECTANCE\_MULT\_BAND\_6 = 2.0000E-05

REFLECTANCE\_MULT\_BAND\_7 = 2.0000E-05

REFLECTANCE\_MULT\_BAND\_8 = 2.0000E-05

REFLECTANCE\_MULT\_BAND\_9 = 2.0000E-05

REFLECTANCE\_ADD\_BAND\_1 = -0.100000

REFLECTANCE\_ADD\_BAND\_2 = -0.100000

REFLECTANCE\_ADD\_BAND\_3 = -0.100000

REFLECTANCE\_ADD\_BAND\_4 = -0.100000

REFLECTANCE\_ADD\_BAND\_5 = -0.100000

REFLECTANCE\_ADD\_BAND\_6 = -0.100000

REFLECTANCE\_ADD\_BAND\_7 = -0.100000

REFLECTANCE\_ADD\_BAND\_8 = -0.100000

REFLECTANCE\_ADD\_BAND\_9 = -0.100000

END\_GROUP = RADIOMETRIC\_RESCALING

GROUP = TIRS\_THERMAL\_CONSTANTS

K1\_CONSTANT\_BAND\_10 = 774.89

K1\_CONSTANT\_BAND\_11 = 480.89

K2\_CONSTANT\_BAND\_10 = 1321.08

K2\_CONSTANT\_BAND\_11 = 1201.14

END\_GROUP = TIRS\_THERMAL\_CONSTANTS

GROUP = PROJECTION\_PARAMETERS

MAP\_PROJECTION = "UTM"

DATUM = "WGS84"

ELLIPSOID = "WGS84"

UTM\_ZONE = 21

GRID\_CELL\_SIZE\_PANCHROMATIC = 15.00

GRID\_CELL\_SIZE\_REFLECTIVE = 30.00

GRID\_CELL\_SIZE\_THERMAL = 30.00

ORIENTATION = "NORTH\_UP"

RESAMPLING\_OPTION = "CUBIC\_CONVOLUTION"

END\_GROUP = PROJECTION\_PARAMETERS

END\_GROUP = L1\_METADATA\_FILE

END