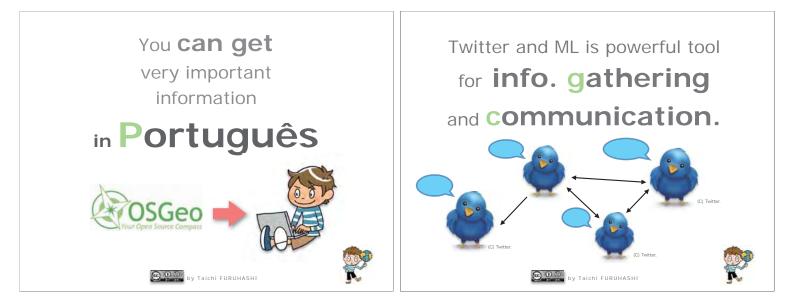




ML of OSGeo.BR	GIS tech. is growing now
Sobre Brasel	You have to get newest information from internet by Own operation .
و و المعني by Taichi FURUHASHI	COM by Taichi FURUHASHI



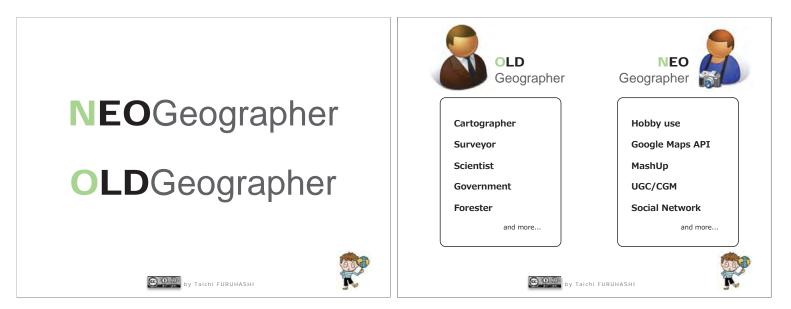


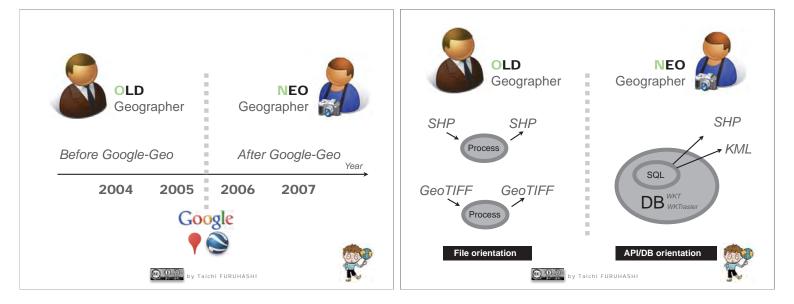


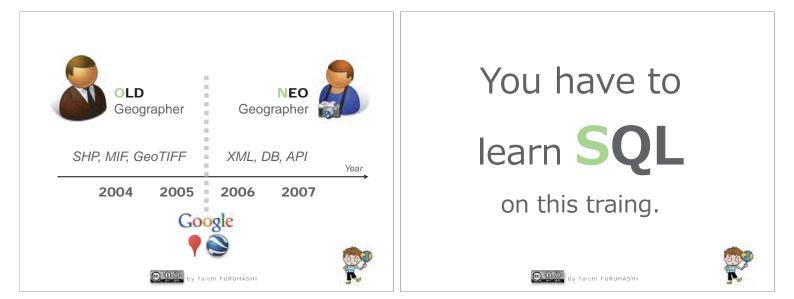




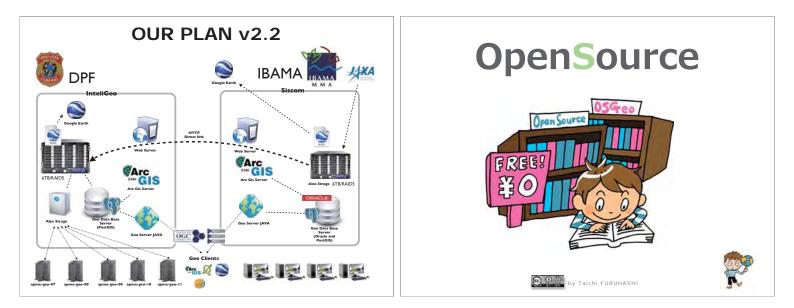




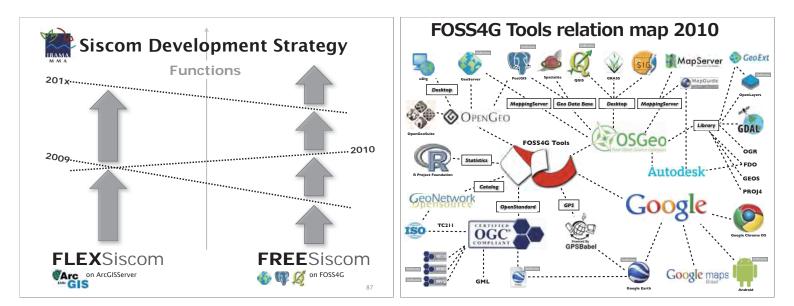


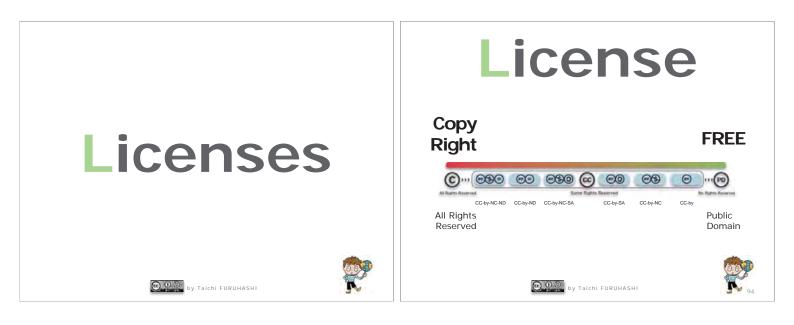


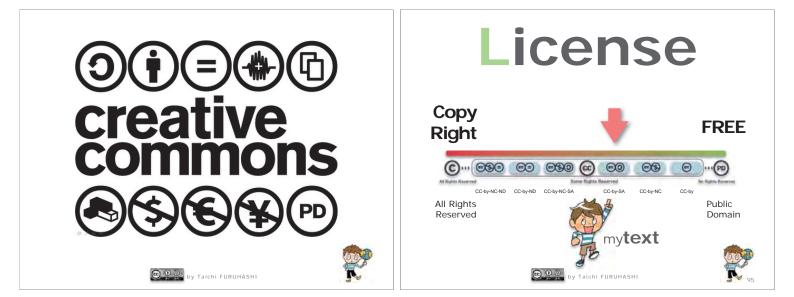


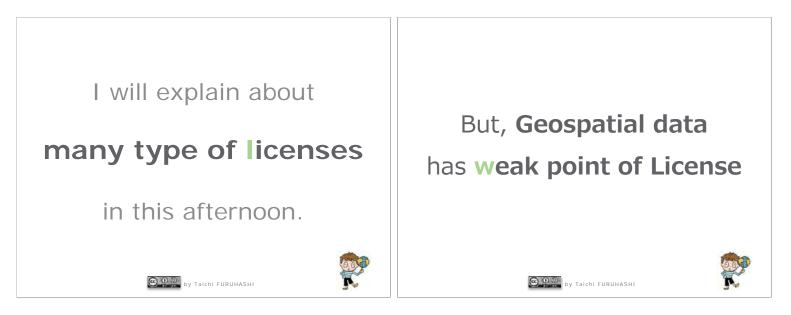




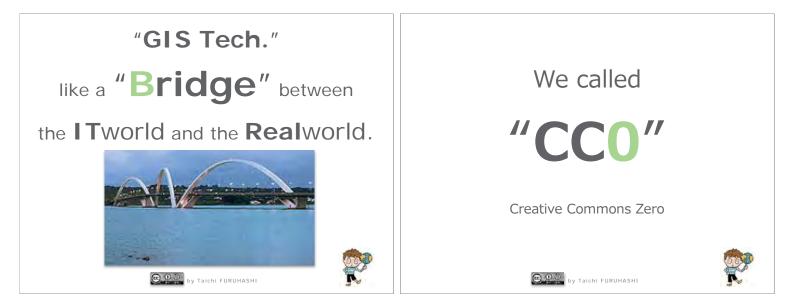










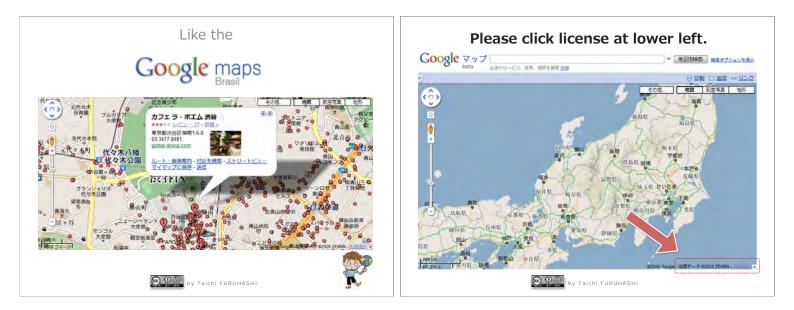


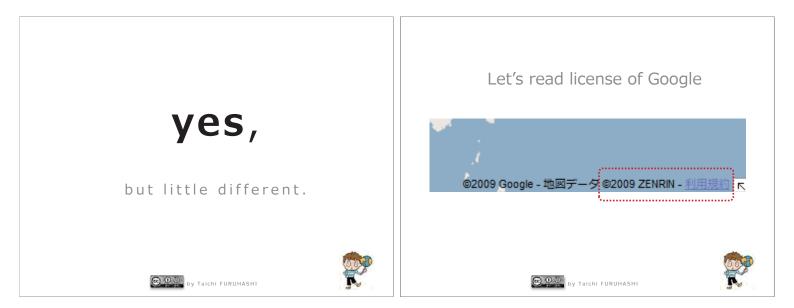






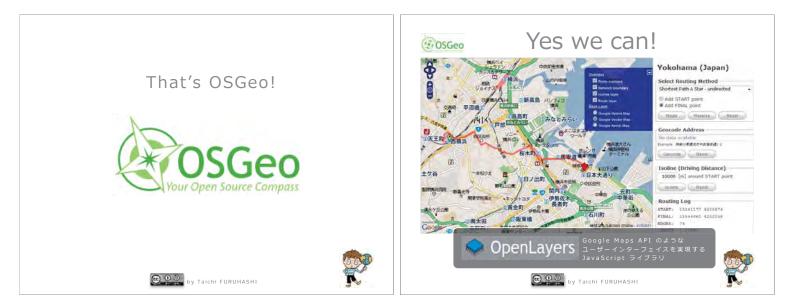


















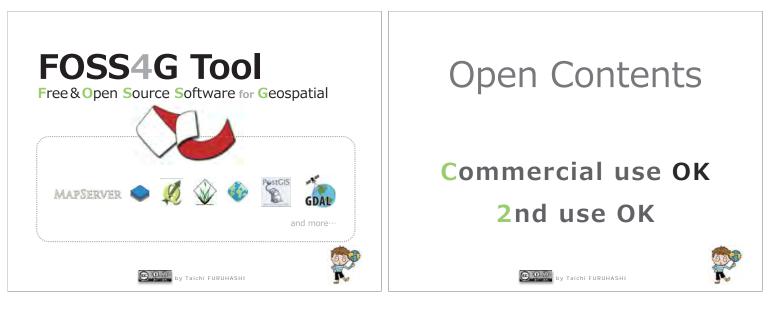




Most popular Service using by FOSS4G tools

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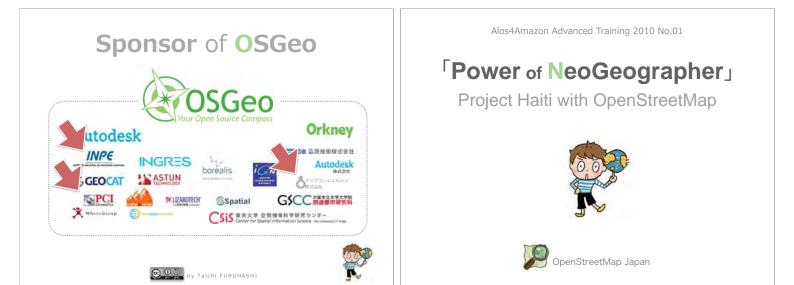


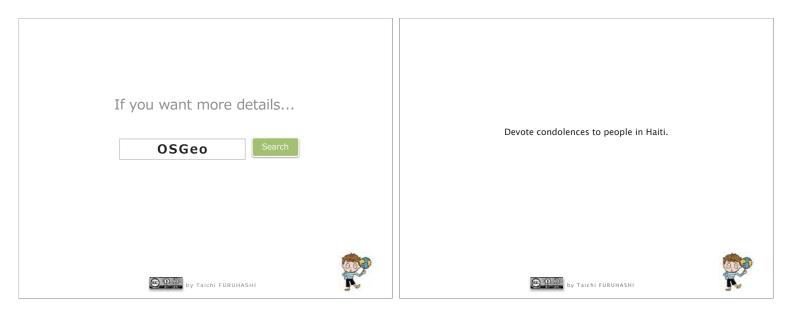
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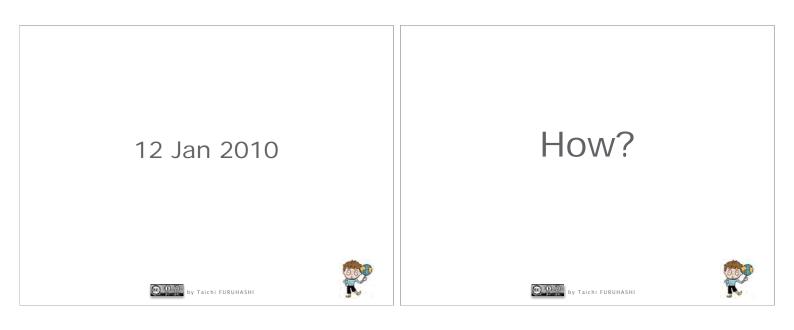


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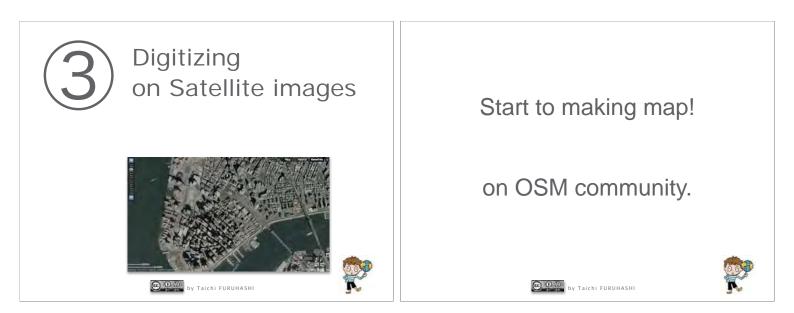


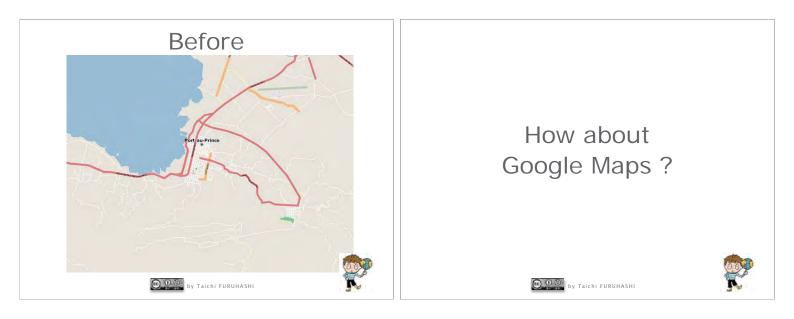


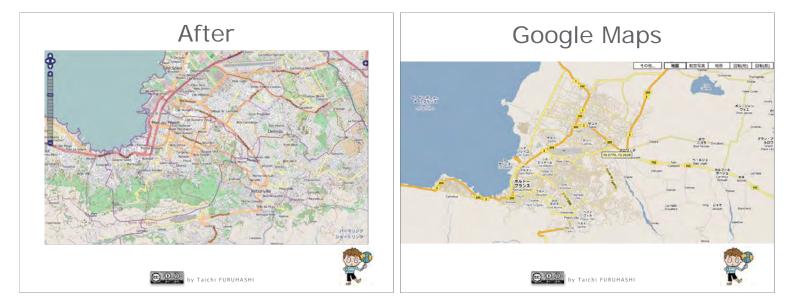


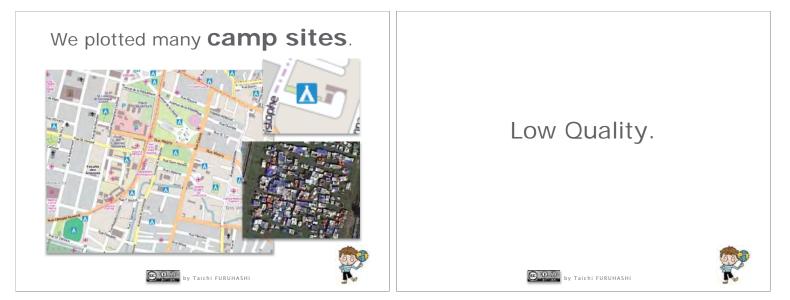


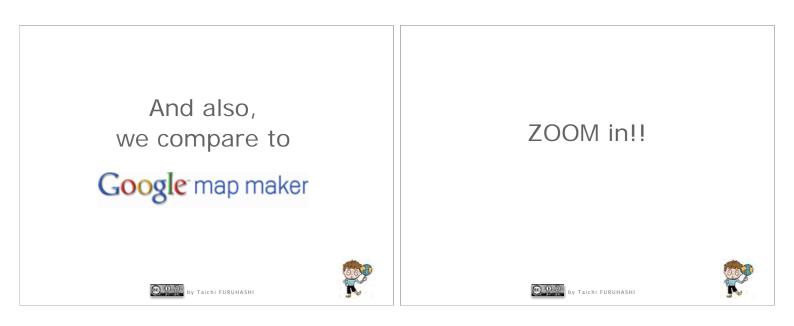




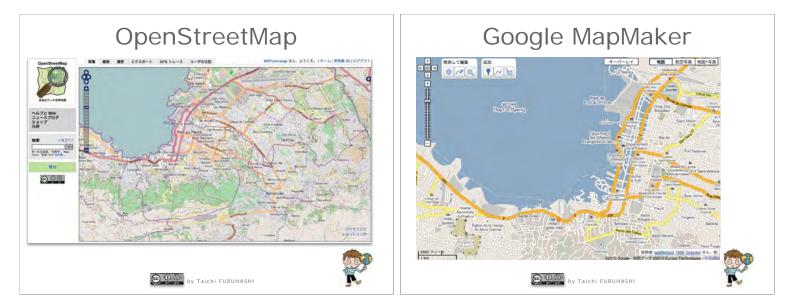


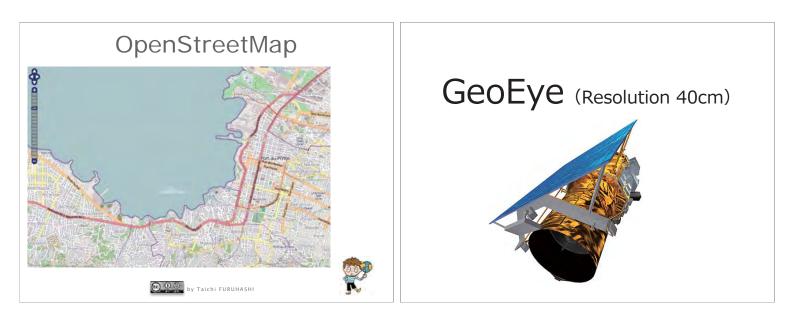


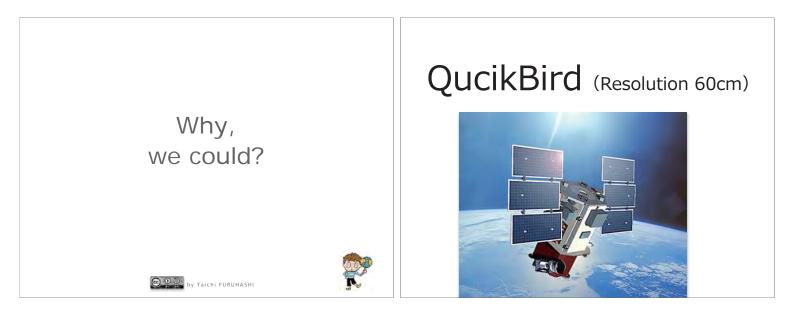


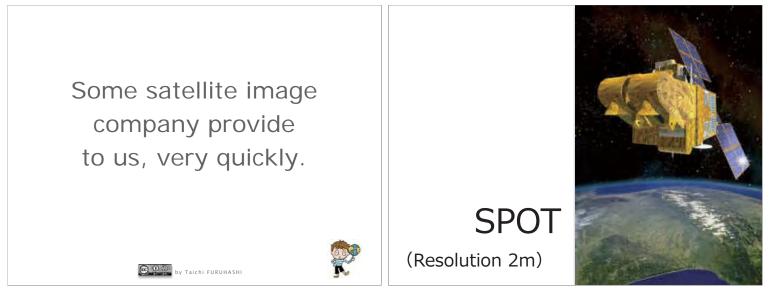




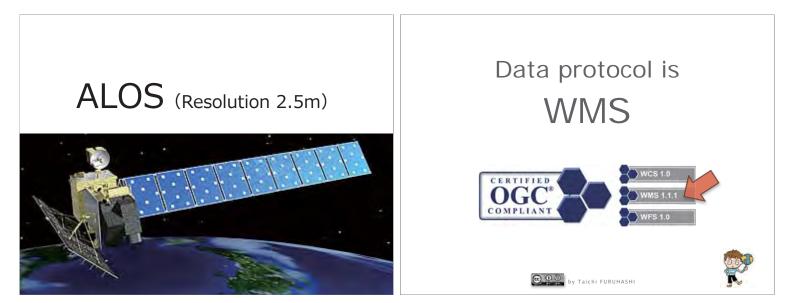




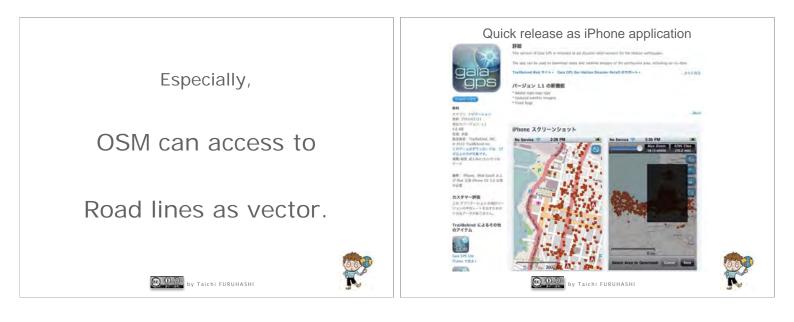






























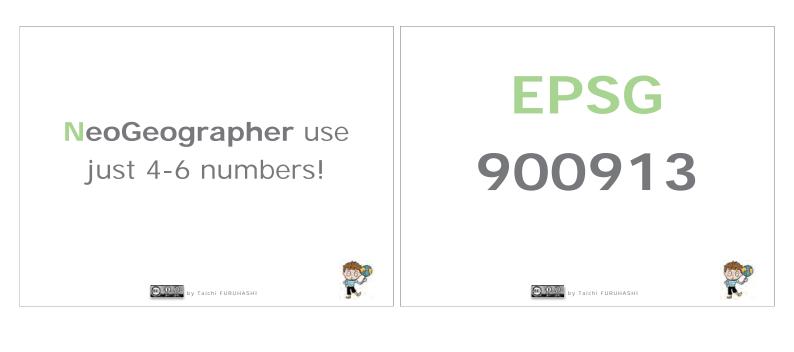


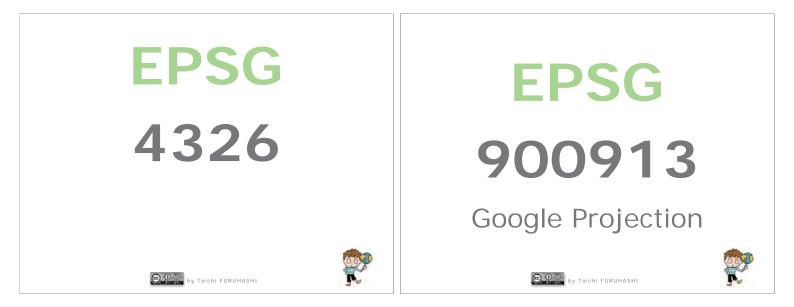




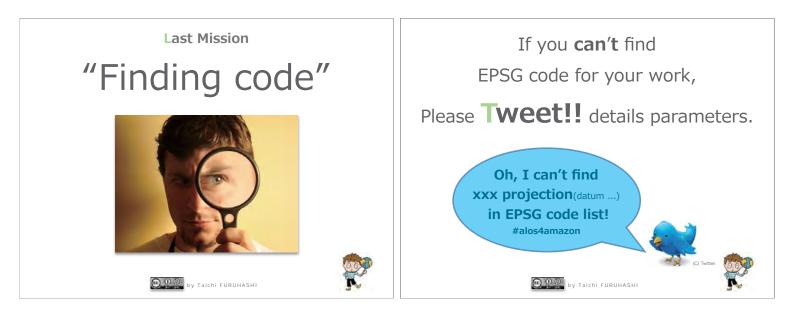












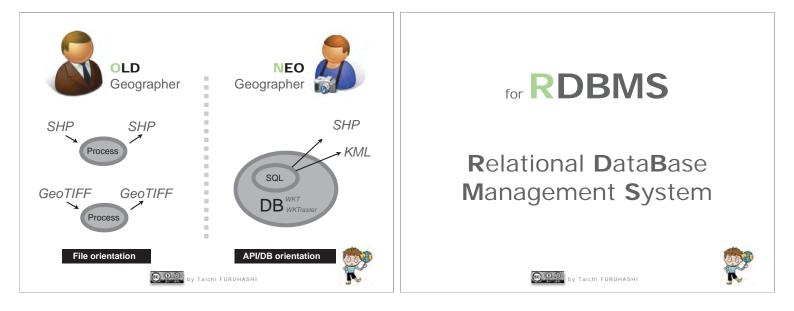


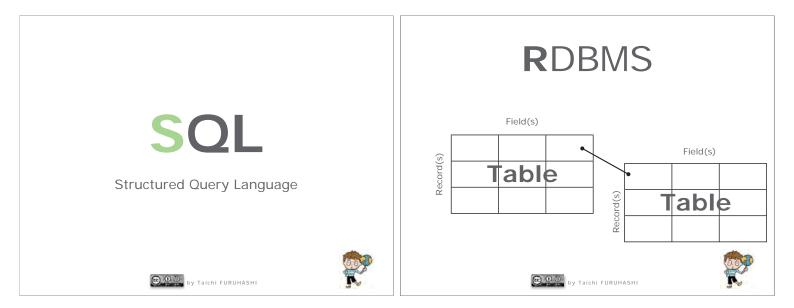


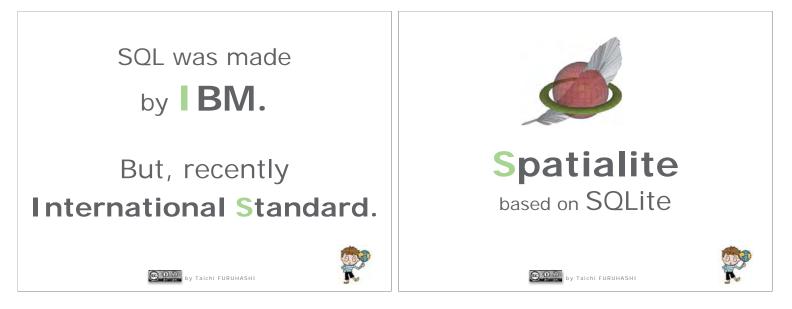






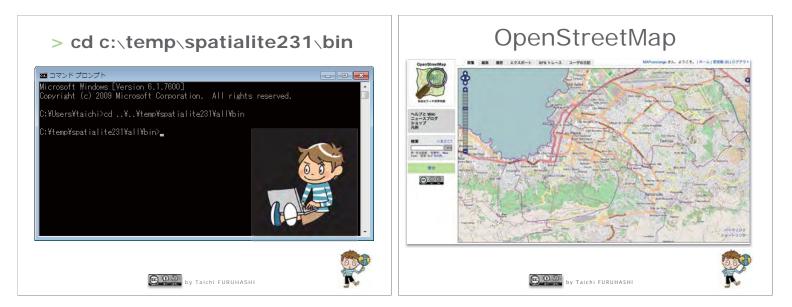




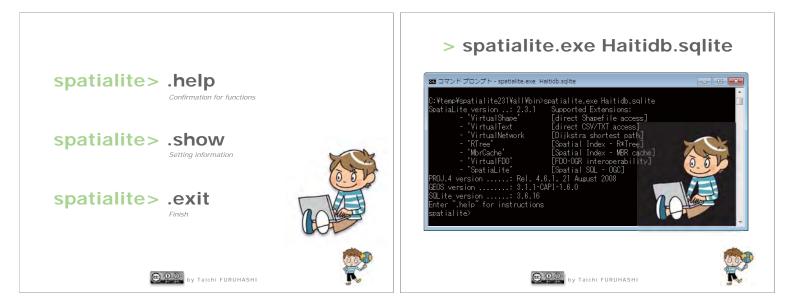




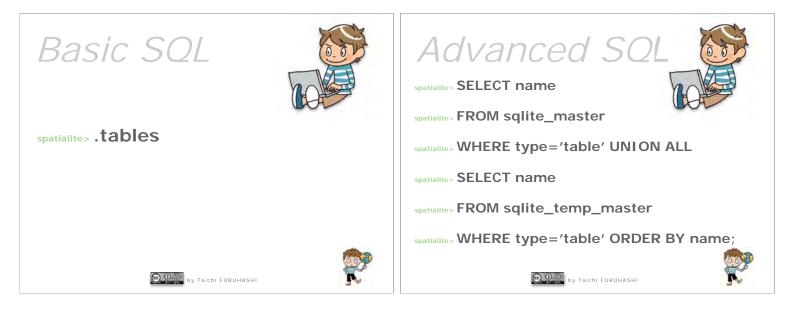




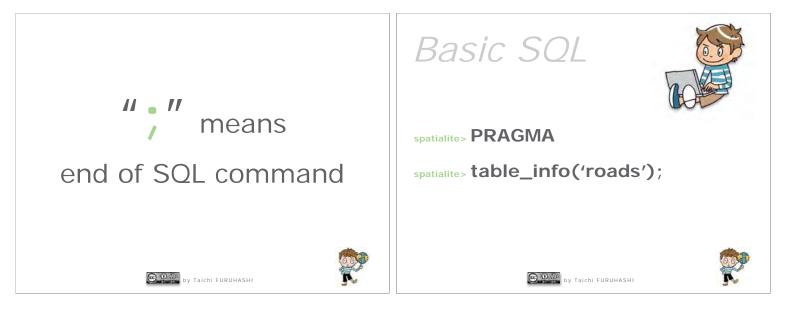






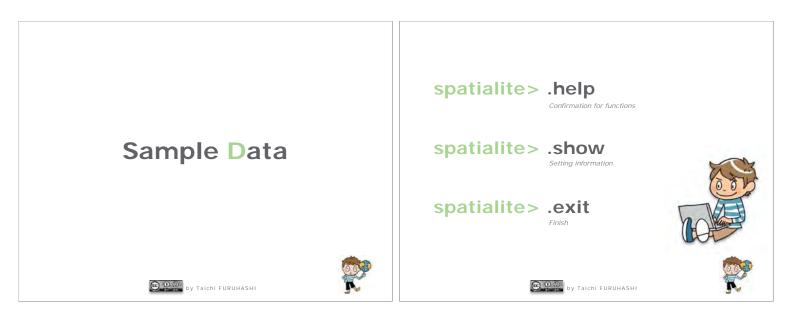




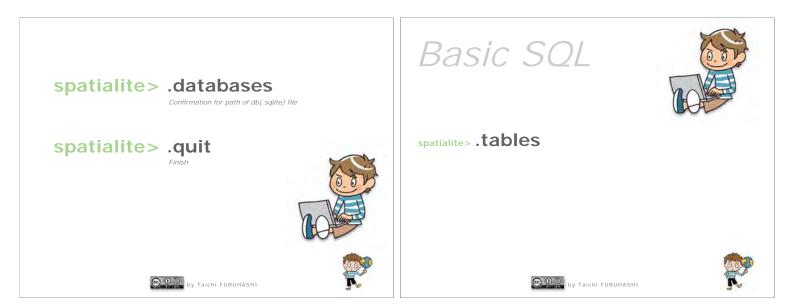




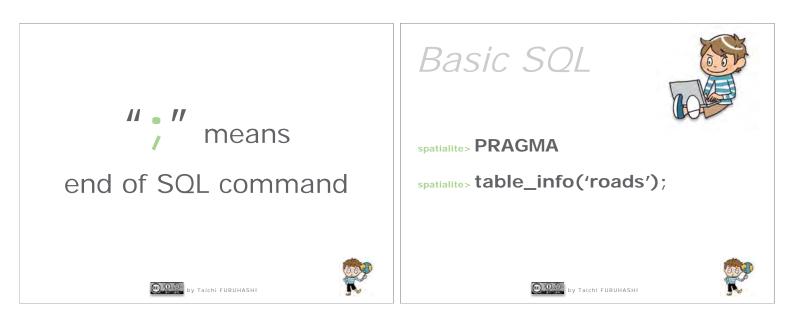










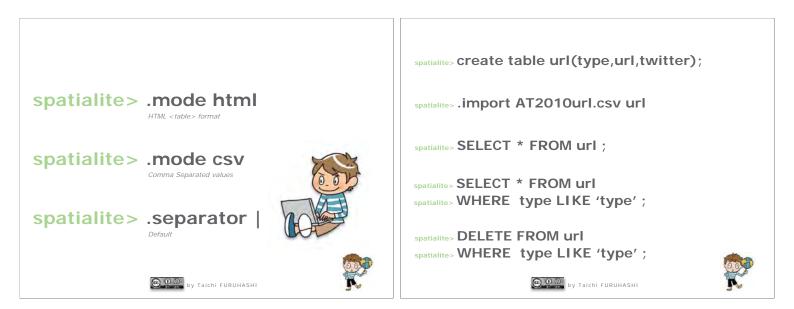


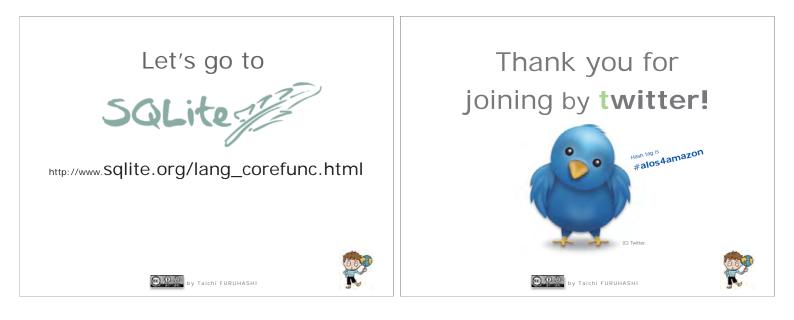


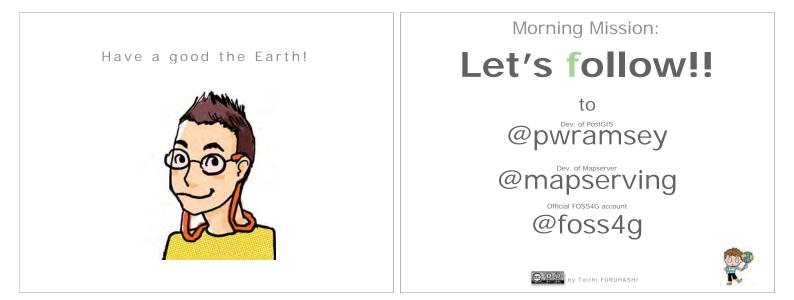




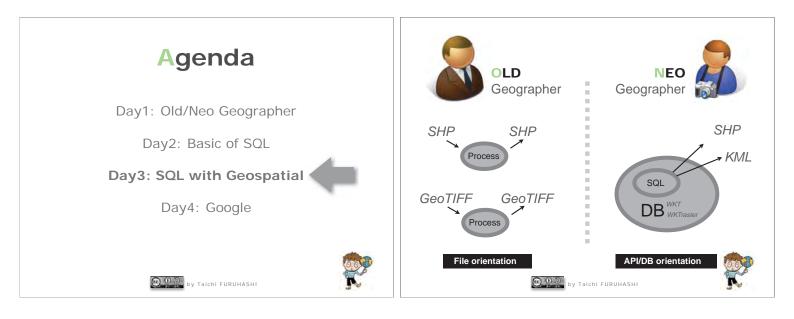


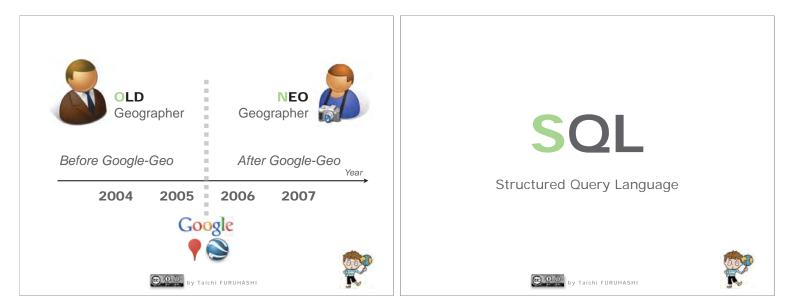


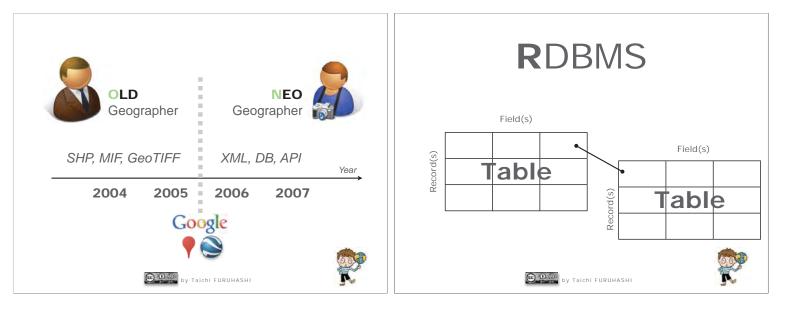






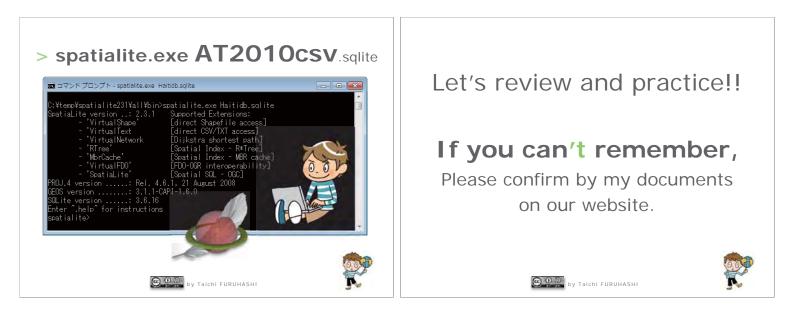


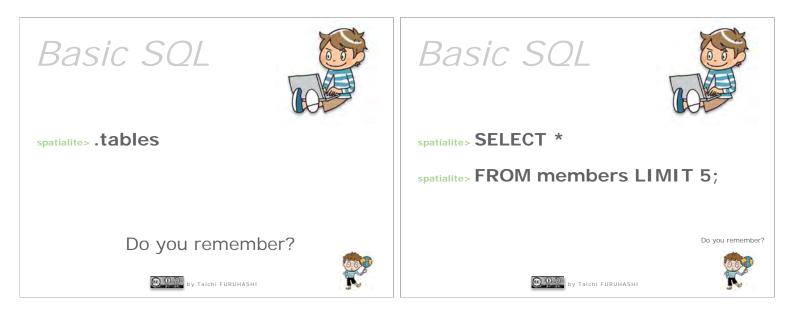


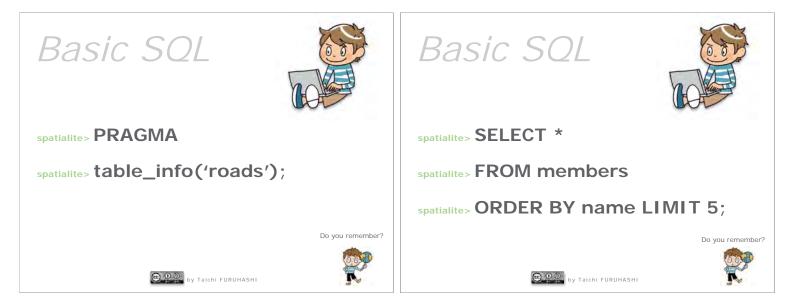




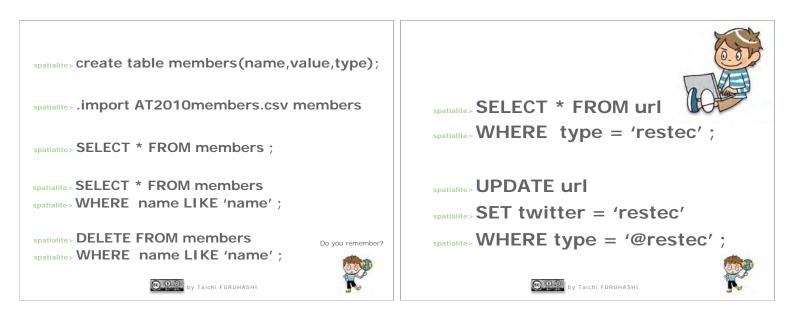






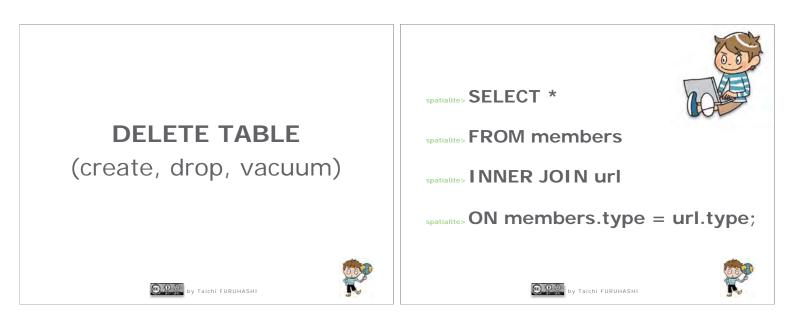




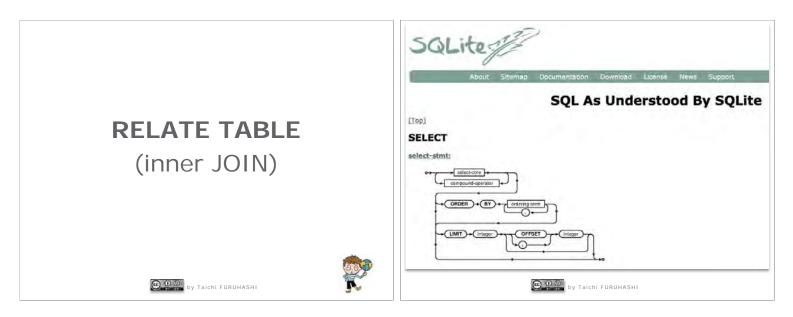




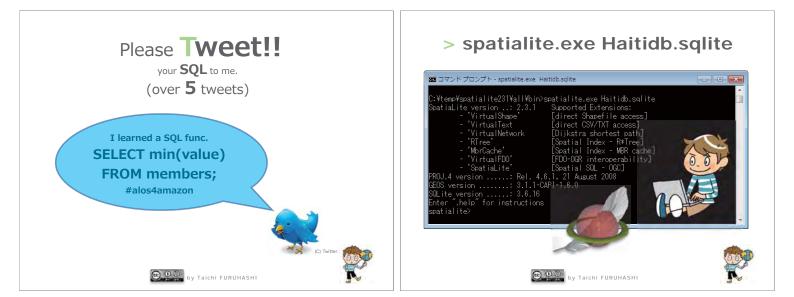




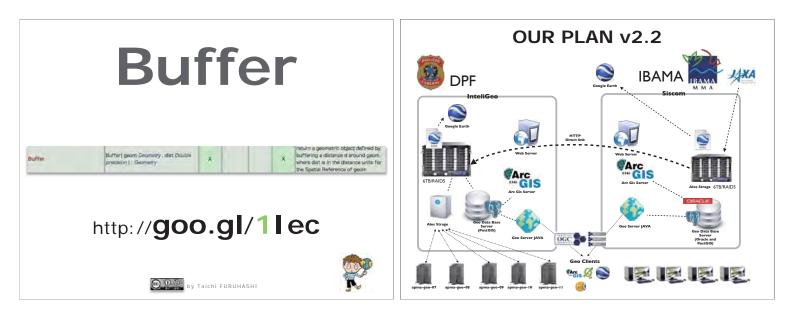


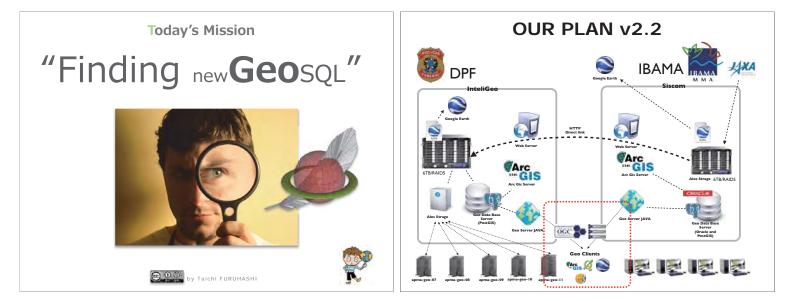














OGC Projects

The Open Geospatial Consortium, Inc.® (OGC) is a non-profit, international, voluntary consensus standards organization that is leading the development of standards for geospatial and location based services.

Protocols

WMS WFS/WFS-T WPS

Data Formats

GML KML



Representation

WKT geometric objects WKT raster WKT spatial reference systems

Style



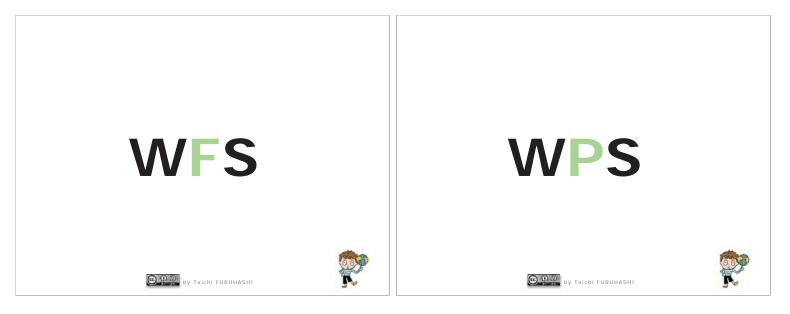
by Taichi FURUHASHI



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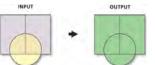




Union Tool

Creation script SQL for make Union procedure using OGC standard

http://help.arcgis.com/en/arcgisdesktop/10.0/help/index.html#/Union/00080000000000000/



 * Individualizes each geographic area with the attributes of the layers

Logic sequence of script

- Query table: querypoly
- "sequence object" create unique ID (use by insert data in querypoly): seq_queryid
- View of intersection
- · Insert data in querypoly by view previuos
- · View of grouping intersection
- Insert exterior data from first Layer ('a')
- Insert exterior data from secondLayer ('b')
- Register the views of output(polygon e multipolygon) in table "geometry_columns"
- · View of Polygon query
- · View of Multipolygon query

Insert data(intersection) in querypoly

INSERT INTO gis.querypoly SELECT id, ida, idb, the_geom FROM gis.vwquery_intersection;

View of grouping by intersection

CREATE OR REPLACE VIEW

gis.vwquery_intersection_union AS SELECT ST_Union(q.the_geom) the_geom FROM gis.vwquery_intersection q;

Table *querypoly*

CREATE TABLE gis.querypoly

(

id integer NOT NULL, CONSTRAINT q_pkey PRIMARY KEY (id), ida integer, idb integer, the_geom geometry

);

Insert exterior data from 10 Layer

INSERT INTO gis.querypoly

SELECT nextval('gis.seq_queryid'), a.id, -1, ST_Difference(a.the_geom, iu.the_geom)

FROM gis.vwlayer_a a, gis.vwquery_intersection_union iu

WHERE substring(*ST_Relate*(a.the_geom, iu.the_geom) from 3 for 1) = '2';

seq_queryid

CREATE SEQUENCE gis.seq_queryid START 101;

View of intersection

CREATE OR REPLACE VIEW gis.vwquery_intersection AS

SELECT nextval('gis.seq_queryid') id, a.id ida, b.id idb, ST_Intersection(a.the_geom, b.the_geom) the_geom

FROM gis.vwlayer_a a, gis.vwlayer_b b

WHERE a.the_geom && b.the_geom AND

substring(ST_Relate(a.the_geom, b.the_geom)
from 1 for 1) = '2';

Insert exterior data from 20 Layer

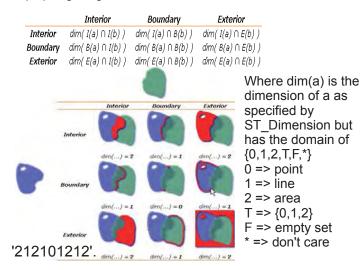
INSERT INTO gis.querypoly

SELECT nextval('gis.seq_queryid'), -1, b.id, ST_Difference(b.the_geom, iu.the_geom)

FROM gis.vwlayer_b b, gis.vwquery_intersection_union iu

WHERE substring(**ST_Relate**(b.the_geom, iu.the_geom) from 3 for 1) = '2';

http://postgis.org/documentation/manual-svn/ch04.html#DE-9IM



PostGIS WKT Raster

Seamless operations between vector and raster layers

> **Pierre Racine** (Pierre.Racine@sbf.ulaval.ca) BAM project, University Laval, July 2008

These slides:

- present an argument for the integration of raster data or of references to raster data into PostGIS
- suggest specifications of overlay operation between a vector layer and a raster layer
- further discuss the specifications of raster integration -RASTER as a new type of WKT/WKB geometry -stored inside or outside of the database

Register the views of output

INSERT INTO geometry_columns ("f_table_catalog", f table schema,"f table name",

"f_geometry_column", "coord_dimension", "srid", "type")

VALUES (", 'gis', 'vwresultpolygon','the_geom', 2, 4326, 'POLYGON');

INSERT INTO geometry_columns ("f_table_catalog", f table schema,"f table name",

"f_geometry_column", "coord_dimension", "srid", "type")

VALUES (", 'gis', 'vwresultpolygonm','the_geom', 2, 4326, 'MULTIPOLYGON');

Why integrate raster in PostGIS? & Why are seamless analysis operators important?

View of Polygon query

CREATE OR REPLACE VIEW gis.vwresultpolygon AS

SELECT q.id, q.ida, q.idb, q.ida::text || 'x' || q.idb::text idaxidb, q.the_geom

FROM gis.querypoly q

WHERE GeometryType(q.the geom) = 'POLYGON':

WHERE GeometryType(q.the_geom) = 'MULTIPOLYGON':



- in a filesystem) as a: coherent continuous coverage of measures, indexed into mutually exclusive tiles (for storage efficiency) or objects (for expressiveness) comparable to features in a vector layer
 - layer in which both tile extents and pixels have significance

Why:

- dataset fully integrated with other layers in a GIS context
- This is also an opportunity to implement the foundation of a seamless vector-raster analysis toolkit (overlay operations, map algebra, interpolation, summaries, etc...), given that spatial analysis is one of the next big trend in the geospatial industry.
- PostGIS SHOULD provide a standard solution for every kind of geospatial data if we want it to be the BEST foundation for GIS applications, both desktop and web-based.

The Case for Seamless Operation Between Vector and Raster

- Why:
- Most GIS packages offer two different sets of analytical tools: one for raster, one for vector data. This makes GIS methods harder to learn for novices and time consuming for experts.
- It is time to integrate, at the lower level, these tools, allowing us to do analysis independently of the data representation.
- This would ease the development of applications (desktop or web), simplify their GUIs and enhance the user experience.

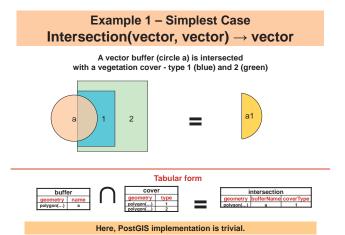
Example 1

What should be the result of a typical operation (e.g. intersection) between a vector and a raster layer? 3 examples...

The following slides try to design a solution whereby results are stored as raster or vector.

Three cases will be examined in each example: -a vector/vector operation with results as a vector layer -a vector/raster operation with results as a raster layer -a vector/raster operation with results as a vector layer -a raster/raster operation with results as a raster layer

But first a typical SQL postgis vector/vector request...



A simplified but typical SQL vector-only overlay operation in PostGIS...

SELECT point, cover, geom, ST_Area(geom) as area

FROM (SELECT ST_Intersection(ST_Buffer(point.geom, 1000),cover.geom) as geom, point, cover FROM point, cover

WHERE ST_Intersects(ST_Buffer(point.geom, 1000), cover.geom)) cover ORDER BY area



In brief:

•ST_Buffer on a vector layer

•ST_Intersection on a vector layer

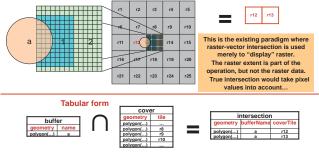
•ST_Area on the result of the previous operation •ST_Intersects in the 'where' clause (we ignore the &&)

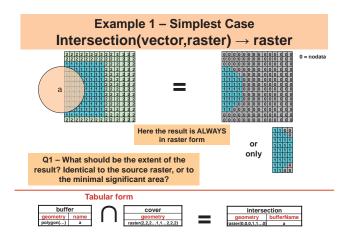


Example 1 – Simplest Case What do we usually do now?

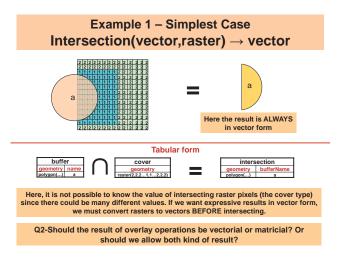
 Intersection is generally used to select which raster files (tiles) have to be loaded in order to construct a display raster (ex. in ArcGIS or MapServer).

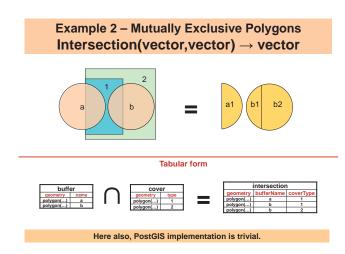
A rectangle (here a circle), representing viewport extent, is intersected with polygons representing raster (tiles) extents. Every intersecting polygon is part of the result.

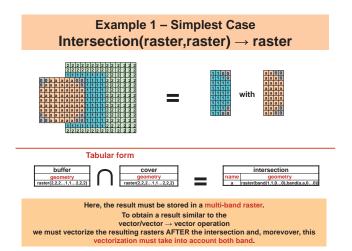


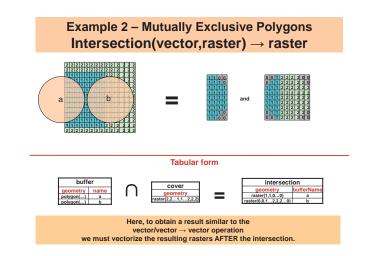


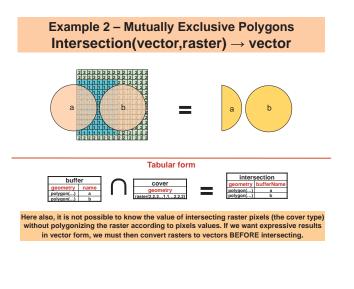




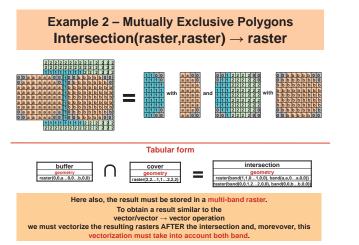


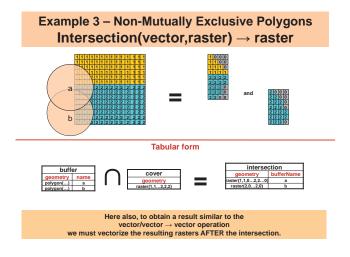


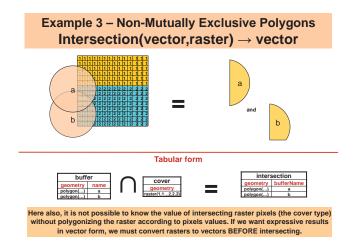




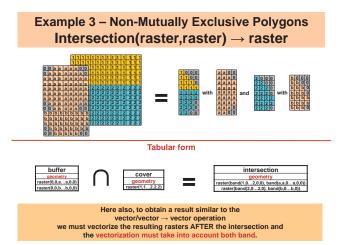
Example 3 – Non-Mutually Exclusive Polygons Intersection(vector,vector) \rightarrow vector a^{1} b^{2} a^{2} a^{2} a^{2} a^{2} a^{2} a^{2} b^{2} Tabular form

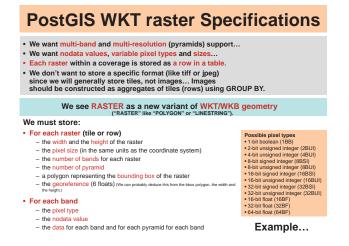






Example 3





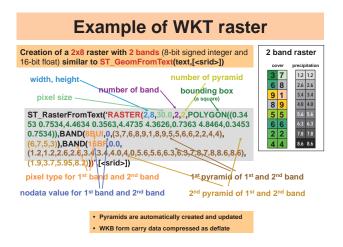
Our SQL query is very similar to example 3:		distant of the	daries-	grows	dauble press
 we intersect buffers with a forest cover; 	- K	1	3	040200000010	12.00.1002993
	x	29		0103000025AD	29640.062571
 buffers are in vector form and might overlap; 		20		1000000000	702034 4725093
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We want a result equivalent to:		20	2	010300002540	31.4072 76.570
no matter in which form is	Y.:.	(m)	3	010000000340	456254 67552
no matter in which form is	1.80	(m)	3.	01000002542	ADVICE HAIM
de la constanta de la constanta d	18.	100	X	(#1030000259A)/	172170-11110
the cover (raster or vector)	10	2.2		(1103P0000,min/)	111033-0129
	11	100	× .	(10.000000,7542)	WHAT A 24912

result of the intersection in raster form. This way, the resulting rasters are smaller an more simple to vectorize (ST_AsPolygon) AFTER intersecting than if we would have chosen to return the result as vector. In this latter case, we would have had to vectorize whole and complex rasters BEFORE intersecting. The seamless query looks like

SELECT point, cover, geom, ST_Area(geom) as area FROM (SELECT ST_AsPolygon(ST_Intersection(ST_Buffer(point.geom, 1000),cover.geom), 'RASTER') as geom, point, cover FROM point, cover WHERE ST_Intersects(ST_Buffer(point.geom, 1000), cover.geom)) cover

Only two things are different from the original query:

- the result of ST_Intersection() is explicitely returned as a 'RASTER' when the two
 inputs are in different forms. (Not when they are in the same form...)
- the resulting raster layer is vectorized with ST_AsPolygon() to isolate each cover feature. (ST_AsPolygon simply return the original geometry when it is in vector form)



Raster data inside or outside the database?

 There has been a lot of discussion on this subject. We think it is better to let application developers decide what is best for them given a pro & cons list. - Pro inside

- A single data storage solution (raster are never lost; for small volume, backup is more simple).
 Faster for analysis (tiled and indexed, no need to extract data from JPEG file).
- •Edition locks provided by DB. - Pro outside
- •Reusable files with faster access (TIFF or JPEG) for thin client (WWW) display. No need to convert to JPEG.
 - •One time backup (if raster is never edited).
- •No importation (involving copy of huge dataset) needed, just registration. We can solve this by allowing raster data (only the band and pyramid arrays in the previous WKT form) to be stored on disk (in TIFF or JPEG) and only reference them with a path in the WKT/WKB.

ST. Raster FromText(RASTER(2,8,30.0,2,2,POLYGON((0.3453 0.7534,4.4634 0.3563, 4.4735 4.3626,0.7363 4.8464,0.3453 0.7534)),BAND(8BUI,0,c:/datastore/ landsat/01b1.tif),BAND(16BF,0.0,c:/datastore/landsat/01b2.tif))',[<srid>])

- · Every function listed below work seamlessly wherever the raster is stored. Pyramids do not work with JPEG.
- Add ST_GetPath(raster, band) to know the name of the raster file
- · Add -R option to the importer so no data are copied to the DB, only reference to the files.

Specifications, Open Questions, and Some Query Examples

Some Questions

- · Georeference: Is it better to ...
- Store only the bbox and derive the 6-floats-georeference from it? Store only the georeference and derive the bbox from it?
- Indexina
- Is it possible to build a GIST index from bboxes embedded in the raster geometry? If not, how else? Is it a good idea to store it in a different column?
- · New WKT/WKB geometry type or set of new composite types?
- Is it better to embed all the raster information in a new WKT/WKB geometry type (like the one described earlier) or to create a set of new composite type like: raster("widh", "height", 'pixelSize', 'hubBand', "hbPyramid', 'bbox', 'SRID', 'band[]') band('pixelType', 'noDataValue', 'pyramid[]')

 - pyramid('pixelValue[]')
- Pyramids
 - Should pyramids be stored with each raster tile? Doesn't this lead to an edge effect at lower resolutions? Should them not be stored as a separate raster layer instead, as vector applications do? It would be up to the application to update pyramids when rasters are edited. Maybe both options are useful...
- Lossless data exchange
 - It is important that a physical data format supports export and re-import of raster rows without loss of information. Is TIFF a suitable/preferred format for all our rows wineeds?

Logical Operators to Adapt

- Existing for vector geometry, adapted for raster geometries, return a boolean.
- · Operate on two vector, a vector and a raster or on two rasters In rasters, only pixels with values are taken into account (not the «nodata» values).
- Implies vectorization of the shape of the raster (ST_Shape) before processing in order to isolate pixels with a value from nodata pixels. Should be faster than a true vectorization (ST_AsPolygon) since it does not imply creating different polygons for different values.
- BBox operators (&<, &>, <<, >>, &<|, |>&, <<|, |>>, ~=, @, ~, &&) work with
- ST_GetBBox(raster|raster) (1)
- ST_Equals(raster|vector, raster|vector) (3)
- ST Disjoint(raster/vector, raster/vector) (3) ST Intersects(rasterlyector, rasterlyector) (1)
- ST Touches(raster/vector, raster/vector) (3)
- ST Crosses(raster|vector, raster|vector) (3)
- ST_Within(raster|vector A, raster|vector B) (2)
- ST_Overlaps(raster|vector, raster|vector) (2)
- ST_Contains(raster|vector A, raster|vector B) (2)
- ST_Covers(raster|vector A, raster|vector B) (3)
- ST_IsCoveredBy(raster|vector A, raster|vector B) (3)
- ST Relate(raster|vector, raster|vector, intersectionPatternMatrix) (3)

Existing Geometry Constructors to Adapt

- Existing for vector geometry, adapted for raster geometries. (With implem
- ST_Centroid(raster[vector) → point geometry (3)
 ST_PointOnSurface(raster[vector) → point geometry (3)
 ST_Buffer(raster[vector, double) → same type as first argument (3)
 ST_ConvexHull(raster[vector) → same type as input (3)
- ST_ConvexHull(raster|vector) → same type as input (3)
- ST_Intersection(raster|vector, raster|vector, 'raster'|'vector') → geometry (1)
- ST_Difference(raster|vector A, raster|vector B) → same geometry type as first argument (3)
- ST_SymDifference(raster|vector, raster|vector, 'raster'|'vector') → geometry (3)
- ST_Union(raster|vector, raster|vector, 'raster'|'vector') → geometry (2)
- ST_Accum(raster set|vector set, 'raster'|'vector') → geometry (2)
- ST_Envelope(raster|vector) → polygon geometry (1)
- ST_Transform(raster|vector, SRID) → same type as input (1)
- ST_Affine(raster|vector,...) → same type as input (3)
- ST_Translate(raster|vector,...) → same type as input (3)
- ST Scale(raster|vector,...) → same type as input (3)
- ST_TransScale(raster|vector,...) → same type as input (3)
- ST_Area(raster|vector) → double (2)

	Functions with the
	'raster' 'vector' string option
	return:
	 vectors when both input an
	vectors geometries
	 rasters when both input are
	rasters geometries
)	 the specified type otherwis

ation priority in parenthesis - 1.2 or 3)

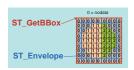
Existing and New Accessors

Existing for vector geometry, adapted for raster geometries ST_AsText(raster|vector) (1)

- ST AsBinary(raster, compression) (2)
- ST_AsKML(raster|vector) → KML (3)
 ST_AsSVG(raster|vector) → SVG (3)
- ST_SRID(raster|vector) → integer (1)
- ST_SetSRID(raster|vector, integer) (1)
- ST_IsEmpty(raster|vector) → boolean (2)
- ST_mem_size(raster|vector) → integer (2)
 ST_isvalid(raster|vector) → boolean (2)

New for raster

- ST_AsJPEG(raster, quality) → jpeg (2)
 ST_AsTIFF(raster, compression) → TIFF (2)
- ST GetWidth(raster) → integer (1)
- ST_GetHeight(raster) → integer (1)
- ST_GetPixelType(raster, band) → string (1)
- ST_SetPixelType(raster, band, string) → string (1?)
 ST_GetPixelSize(raster) → integer (1)
- ST_SetPixelSize(raster) → integer (1?)
- ST_GetBBox(raster) → polygon geometry (1)



- ST GetNbBand(raster) → integer (1)
- ST_GetNoDataValue(raster, band) → string (1)
 ST_SetNoDataValue(raster, band, value) (1)
- ST_Count(raster, value) → integer (2)
 ST_GetGeoReference(raster) → string (1)
- ST SetGeoReference(raster, string) (1)
- ST_SetValue(raster, band, x, y, value) (3) ST_GetPyramidMaxLevel(raster) → integer (1)
- ST GetPvramid(raster, level) → raster (1)

Three ways to use a WKT raster table... A vector-like A continuous tiled An image warehouse coverage discrete coverage m area 32.63 Sport SUV practically identical to a vector layer the traditional way of seeing a intended for non-geospatial coverage all the pixels of each raster have the same value for web sites or any other usage (for better or worse!) images may overlap generally the result of an georeference is not used analysis operation implying rasterization of vectors open the door to other raster processing functions or features • ST_AsPolygon(), • ST_Intersection(. packages

New Geometry Constructors

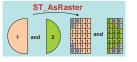
New for raster geometries

- ST_RasterFromText(string, compression, [<srid>]) (1)
- ST_RasterFromWKB(raster, [<srid>]) (3)
- ST_AsPolygon(raster) → polygon geometry set (1)
- ST_Shape(raster) → polygon geometry (1)
- ST_Band(raster, band) → raster geometry (1)
- ST_Resample(raster, pixelsize, method) → raster geometry (2)
- New for raster and vector geometry
- ST Clip(rasterlyector.geometry) → same type as first argument (3)
- ST SelectByValue(rasterlyector, 'expression') → same type as first argument (2)
- ST Flip(raster/vector, 'vertical'|'horizontal') → same type as first argument (3)
- ST_Reclass(raster,string) → same type as first argument (2)

• ST_MapAlgebra(raster|vector, [raster|vector,...], 'mathematical expression',

'raster'|'vector') → geometry (3)

- New for vector geometry only
- ST_AsRaster(vector, pixelsize) → raster geometry (2) • ST_Interpolate(points, pixelsize, method)
- → raster geometry (3)



ST_AsPolygon

ST_RotateZ,Y,Z(raster|vector, float8) → same type as input (3)
 the specified type othen
 Default is to return a vector

raster Importer

USAGE:

- raster2pgsql [<options>] rasterfile [rasterfile...] [<schema>.]
- Create an SQL commands file to create a table of raster. If rasterfile is multiband and -b is not specified, every band are inserted. Multiple band can also be specified using multiple filenames (rasterfile1 is the first band, rasterfile2 the second, etc...). Can process multiple file from a folder.
- georeference (and pixel size) must exist directly in the files or in a companion World File.

OPTIONS:

- -s csrid> Set the SRID field. Default is -1. -b <nbband> Specify the number of band. The number of rasterfile must correspond to this number
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- -r <raster_column> Specify the name of the raster column (mostly useful in append mode).
 -D Use postgresql dump format (defaults to sql insert statements).
 -I Create a GST index on the bbox of the raster column.
 -? Display this help screen
- Should rast2pgsql produce a SQL file like shp2pgsql or insert rasters directly in PostGIS?

Example 3 What is the total length of roads (polylines) crossing different types of forest cover (raster) ?

SELECT max(covertype) as covertype, sum(ST_Length(ST_Intersection(cover.raster,roads.geometry))) as totallength FROM cover, roads WHERE cover.raster && roads.geometry and ST_Intersects(cover.raster,roads.geometry) **GROUP BY covertype** ORDER BY totallength

Example of a totally seamless operation involving a raster layer and a polyline layer.



Example 1 – Import/Export

Importing existing rasters as raster into PostGIS

>raster2pgsql -s 32198 -t 128 -i forestcover.tif temperature.tif public.coverandtemp > c:/temp/coverandtemp.sql File by file version where each file is splited into tiles

or

>raster2pgsql -s 32198 -t 128,tid -i c:/forestcoverfolder/ c:/temperaturefolder/ public.coverandtemp > c:/temp/coverandtemp.sql

Folder version where each file in each folder is imported and tiled. tid is a target column storing a unique identifier for every source file (1,2,3,4,5,6,...) Could also come from part of the filename.

Exporting existing rasters as raster files

>pgsql2raster -f c:/temp/image#.tif -h localhost -p pwd -u user -r raster public.coverandtemp roduce many small files or tiles named image1.tif, image2.tif,

or

>pgsql2raster -f c:/temp/image.tif -h localhost -p pwd -u user public 'SELECT ST_Accum(ST_Band(raster,1)) FROM coverandtemp WHERE prov='BC' GROUP BY prov'

roduce one big multiresolution raster by aggregation of many tiles

Example 4 **Raster-Only MapAlgebra Operation** (possible also between raster/vector) One of the coverage has to be reprojected, resampled and reclassed before doing a map algebra operation with the other coverage. There is SELECT ST_SelectByValue(ST_MapAlgebra(as many rows in the result as there is tiles having equivalent extent in the two coverages. Only pixels with value "2" are retained in the final result. Coverages are assumed to have only one band. ST_Reclass(ST_Resample(ST_Transform(rast1,32198),

30,'CUBIC'), '0-99=0,100-199=1,200-255=2'), rast2, 'int(0.434*A+0.743*B)'),

2) FROM cover1, cover2 WHERE ST_Transform(rast1,32198) ~= rast2

Only raster having equivalent extent are part of the . calculus

Example 2 Retrieving tiles intersecting an extent

SELECT ST_AsJPEG(ST_GetPyramid(ST_Band(raster,2),3),60) FROM coverandtemp

WHERE ST_BBox(coverandtemp.raster) &&

ST_GeomFromText('POLYGON(-350926 351220,-350926 199833,-196958 199833,-196958 351220,-350926 351220)', 32198) and

ST_Intersects(coverandtemp.raster,ST_GeomFromText('POLYG ON(-350926 351220,-350926 199833,-196958 199833,-196958 351220,-350926 351220',32198))

Returns a table of jpeg tiles, from the temperature band, intersecting with the specified extent. The intersection takes into account the nodata values (they are not part of the geometry). Only the specified resolution (pyramid) is returned.

Example 5 Rebuilding a regional raster from a global coverage

SELECT

ST_AsJPEG(ST_Accum(A.raster), 60) FROM (SELECT ST_Pyramid(ST_Band(raster, 2), 3)) as raster FROM USACoverage WHERE state='NY') A

> Use the same ST_Accum aggregate function as the one used with geometry

PostGIS WKT raster VS Oracle GeoRaster*

Oracle GeoRaster*.

- is stored as a relation between two types in different tables:
- images (SDO_GEORASTER) and
- tiles (SDO_RASTER)
- is very complicated. Supports:
 bitmap mask
 - two compression schemes
 - three interleaving types
 - multiple dimensions
 - embedded metadata (color table, statisitcs, etc...)
- lots of unimplemented features
 do not allow seamless analysis

operations with vector geometries

PostGIS WKT Raster..

- is stored as a single type in a table, much like the geometry type.
 It does not distinguish the tile
 - It does not distinguish the tile concept from the image concept. Both concepts are interchangeable.
- is more simple. Supports:
 - masks through bandonly the deflate compression
 - only one interleaving type
 - only two dimensions
 - leave metadata, color table and statistics to the application level

allows seamless analysis operations with vector geometries

*Xing Lin's PGRaster is almost identical to Oracle GeoRaster...

Summary

- rasters are multiband and multiresolution, georeferenced, and support variable extents (per row), nodata values and multiple pixel types.
- raster is implemented as a new WKT/WKB form

 WKT as ST_RasterFromText('RASTER(...)')
 WKB as raw raster data, compressed with deflate
- Functions involving only rasters generally return raster.
- Functions involving only vectors generally return vector.
- Functions involving rasters and geometries have an option to specify the type of the output in case of ambiguity.
- Some raster-specific functions must be added but most functions become seamlessly usable with vector geometries or raster geometries.
- WKT Raster is much more simple to use than Oracle GeoRaster
- WKT raster is not an attempt to implement ISO 19123

Implementation

PostGIS

Priorities and Planning

- 1. For the BAM project (marked with 1) June 2009?
 - a. raster2pgsql
 - b. ST_RasterFromText
 - c. ST_GetBBox, ST_Envelope, ST_Shape, ST_AsPolygon
 - d. &&, ST_Intersection, ST_Intersects
 - e. ST_Band, ST_GetPyramid, ST_AsText, ST_Transform
 - f. ST_SRID, ST_SetSRID, ST_GetWidth, ST_GetHeight, ST_GetPixelType, ST_SetPixelType, ST_GetPixelSize, ST_SetPixelSize, ST_GetNbBand, ST_GetNoDataValue, ST_SetNoDataValue, ST_GetPyramidMaxLevel
- 2. For a first release (marked with 2) December 2009? a. pgsd/2raster
 - a. pgsql2raster
 b. ST_AsRaster, ST_AsBinary, ST_AsJPEG, ST_AsTIFF
 - c. ST_IsEmpty, ST_mem_size, ST_isvalid, ST_Count
 - d. ST Accum. ST Union. ST SelectBvValue
 - d. ST_Accum, ST_Union, ST_SelectByvar
 - e. ST_Within, ST_Overlaps, ST_Contains f. ST Reclass, ST Resample, ST Area
- 3. All remaining functions (marked with 3) June 2010?

WKT Raster VS ISO 19123

- ISO 19123 is the "Abstract Specification Schema for Coverage Geometry and Functions"
- No "implementation" standard have been produced yet
- Even though the "raster" type is more easily associated with the notion of "coverage", a raster layer is NOT MORE a coverage than a vector layer. In the standard:
 - some types of coverage can be vectorial. e.g.
 - CV_DiscreteSurfaceCoverage (a vector layer of surfaces)
 CV_DiscretePointCoverage (a vector layer of points)
 - some types of coverage can be matricial. e.g.
 - CV DiscreteGridPointCoverage (a raster laver representing a grid of discrete
 - points) • CV_ContinousQuadrilateralGridCoverage (a raster layer representing a continuous field)
- We think ISO 19123 should be implemented as a layer OVER a vectorial or a raster layer.
 - every ISO 19123 function should have the name of a vector or a raster table as argument. e.g. evaluate(temp, point) where temp is the name of a table containing a geometry column (vector or raster)

Acknowledgements

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- Thierry Badard (http://geosoa.scg.ulaval.ca), Professor/full time researcher at Centre for Research in Geomatics, Université Laval, Quebec, Canada for his valuable comments, revisions, expertise and discussions.

Funding and Future Opportunities

- Actual Funding The Boreal Avian Modeling (BAM) project and the Canadian Foundation for Innovation (CFI) are financing development of a web-based GIS tool to automate buffer operations on large spatial datasets. The objective is to support ecological analysis by reducing the overhead of GIS expertise and data assembly. A half-time position is supported to develop a system prototype including raster integration in PostGIS.
- Extended Funding Steve Cumming and Thierry Badard aim at initiating a new project to complement the funding of the project (and hence enable the financial support of another developer) and explore new avenues for geospatial data analysis provided by such a raster support (e.g. raster based Spatial OLAP applications).
- Interested? If you are interested in such an implementation of the raster support in/with PostGIS and/or in participating to the new project, do not hesitate to contact Pierre Racine (Pierre.Racine@sbf.ulaval.ca), Steve Cumming (Steve.Cumming@sbf.ulaval.ca) and Thierry Badard (Thierry.Badard@scg.ulaval.ca).

MINUTES OF MEETINGS BETWEEN THE JAPANESE TERMINAL EVALUATION TEAM AND AUTHORITIES CONCERNED OF THE GOVERNMENT OF THE FEDERATIVE REPUBLIC OF BRAZIL ON JAPANESE TECHNICAL COOPERATION PROJECT FOR UTILIZATION OF ALOS IMAGES TO SUPPORT THE PROTECTION OF THE BRAZILIAN AMAZON FOREST AND COMBAT AGAINST ILLEGAL DEFORESTATION

Brasilia, Brazil, December 2nd, 2011

Mr. ENDO Hiroaki	Mr. Paulo Roberto FAGUNDES
Team Leader	Director
The Terminal Evaluation Team	Technical Scientific Directorate,
Japan International Cooperation Agency (JICA),	Department of Federal Police (DPF),
Japan	Ministry of Justice,
	Federative Republic of Brazil

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Manager	COSTA		
Coordination of Received Bilateral Cooperation,	Director		
Brazilian Cooperation Agency (ABC), Environmental Protection Directorate			
Ministry of External Relations,	Brazilian Institute for the Environment and		
Federative Republic of Brazil	Renewable Natural Resources (IBAMA),		
	Ministry of Environment,		

Federative Republic of Brazil

The Japan International Cooperation Agency (hereinafter referred to as "JICA") and the Government of the Federative Republic of Brazil organized a Joint Terminal Evaluation Team (hereinafter referred to as "the Team") composed of the Japanese Evaluation team headed by Mr. ENDO Hiroaki, Director, Forest and Nature Conservation Division II, Global Environment Department, JICA, and the Brazilian Evaluation team headed by Mr. Eron Carlos da COSTA, Projects Analyst from Brazilian Cooperation Agency (ABC), Ministry of External Relations, for the purpose of conducting the terminal evaluation of the Japanese technical cooperation project titled "Utilization of ALOS Images to Support the Protection of the Brazilian Amazon Forest and Combat against Illegal Deforestation" (hereinafter referred to as "the Project").

The Team has carried out intensive study and analysis of the activities and achievement of the Project, and prepared Report of the Joint Terminal Evaluation attached hereto (hereinafter referred to as "the Report") (ANNEX1), which was presented to the Joint Coordinating Committee (hereinafter referred to as "JCC") held on December 2nd, 2011. After discussions on the major issues pointed out in the Report, the JCC accepted it and took note on the recommendations made therein.

Further, the Japanese Evaluation team had a series of meetings with the Brazilian authorities concerned, on the matters related to the Project including the results of the Joint Terminal Evaluation, and agreed on the following matters.

1. Result of Joint Terminal Evaluation

The Team agreed upon the contents of the Report, which was presented at the JCC on December 2^{nd} , 2011.

The Team concluded that, the Project Activities have been implemented without serious problems, producing the Outputs almost as planned, in spite of unexpected termination of ALOS operation in April 2011. The Project Purpose is expected to be practically achieved by the Project end: therefore, the Project will be successfully terminated in June 2012 as planned.

The major recommendations from the Team were as follows.

(1) Preparation for utilization of ALOS-2/PALSAR images

Since ALOS-2 will be launched in near future, it is recommended to prepare for utilization of ALOS-2/PALSAR images in terms of collecting information on analysis/interpretation techniques. For this objective, DPF and IBAMA should identify the necessary activities to enable prompt utilization of ALOS-2/PALSAR data.

(2) Preparation of Post-project strategies

Post-project strategies for each Output should be developed by the end of the Project in order to sustain the effect of the Project.

(3) Agreement between DPF and IBAMA

Currently DPF and IBAMA are coordinating an agreement for ensuring the collaboration between the two organizations after the termination of the Project. It is recommended that DPF and IBAMA make efforts to conclude the agreement by the end of the Project.

(4) Modification of the Project Design Matrix

The Project Design Matrix (hereinafter referred as "PDM") should be modified in regards of the Objectively Verifiable Indicator for the Overall Goal and Important Assumption for the Overall Goal in order to clarify definition and target of enhancement of law enforcement. The draft of modified PDM (draft PDM5), prepared through a series of discussions with the Project Personnel and the Japanese Experts, is attached as Annex 6 of the Report. The modified PDM should be submitted to the meeting of JCC on 2 December 2011 for its review and approval. It is noted that the Indicator for the Overall Goal may be modified by the Project end depending on the contents of the Lower House's Bill No 1, 2010, regarding cooperation between Federal, State, Federal District and Municipal Governments on protection of natural environment, which is being finalized.

(5) Dissemination of the Results of the Project

Considering the good results of the Project, DPF and IBAMA should explore the possibilities of spreading the technology and results of the Project to other countries, for example through the Third Country Training Programme of JICA.

(6) Continuous use of ALOS data

Regarding high-resolution SAR images for Forensic Reports, which is provided by JICA during the Project period, it is recommended that the DPF makes efforts to ensure that images of ALOS and ALOS-2/PALSAR will be continuously obtained after the end of the Project. On the other hand, IBAMA should also make efforts to guarantee that ScanSAR images of ALOS-2, which are necessary for the detection of illegal deforestation, will be provided based on the agreement between IBAMA and JAXA.

2. Implementation of the Project based on the modified PDM approved by the JCC

Both Brazilian and Japanese sides agreed to ensure the implementation of the Project based on the modified PDM approved by the JCC on December 2nd, 2011 (PDM version 5), as attached hereto (ANNEX 2), in the remaining period.

Attached Documents:

ANNEX 1 Report of the Joint Terminal Evaluation

ANNEX 2 PDM version 5

ANNEX 2 PDM 5

1. Project Name : The Project for utilization of ALOS images to support the protection of the Brazilian Amazon Forest and combat against illegal deforestation

PDM 5 approved on 2 Dec, 2011

2. Project site: Brasilia

3. Duration: From June 2009 to June 2012 (three years)

4. Target Beneficiaries: Forensic Experts of Federal Police Department (DPF) and Environmental Analysts of Brazilian Institute for the Environment and Renewable Nature Resources (IBAMA)
 5. Target Area: Brazilian Amazon (i.e. 9 Legal Amazon States: Acre, Amapa, Amazonas, Maranhao, Mato Grosso, Para, Rondonia, Roraima, Tocantins)

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
Overall Goal Law enforcement is enhanced ground on technical information based on satellite images on illegal deforestation	 a: Deforestation of Brazilian Amazon is monitored with use of SAR images, including ScanSAR (*3) images of ALOS-2 at every Cycle, using/applying the methodologies developed through the Project b: The techniques acquired through the Project are adapted and used for monitoring of deforestation in at least 2 sites in at least one biome different from Amazon. c: SAR images and high-resolution images are utilized /referred to in 100 Environmental Forensic Reports (*4)on illegal deforestation produced by DPF per year. (Note: The Indicator may be modified by the Project end depending on the contents of the Lower House's Bill No 1, 2010, regarding cooperation between Federal, State, Federal District and Municipal Governments on protection of natural environment, which is being finalized) 	a-c:Reports by IBAMA and DPF	A: There is no particular change in government policies on protection of Brazilian forest
Project Purpose Technical information based on ALOS(*1)/PALSAR(*2) images on illegal deforestation in the Brazilian Amazon is provided for law enforcement	 a: By the Project end, deforestation areas are detected within 3 working days after receiving the ScanSAR images of ALOS/PALSAR by IBAMA. b: By the Project end, the location and size of the detected deforestation areas (i.e. Deforestation Polygons) are provided to the relevant IBAMA regional offices within 2 working days after their detection c: By the Project end, ALOS/PALSAR images (mainly high-resolution ones) are utilized/referred to in 60 Forensic Reports produced by DPF per year 	a&b:Comparison of the record of concerned dates kept by IBAMA c: Review of Forensic Reports	law enforcement do not decrease drastically

Output 1: Deforestation areas including suspicious areas are detected using ALOS/PALSAR data	 1a: Useless multi-temporal combination of ScanSAR images of ALOS/PALSAR becomes zero by the end of 2009. 1b: Methodologies to extract deforestation information from ScanSAR images of ALOS/PALSAR developed by the Project, including Interpretation guide, forest classification tool, and change detection tool by the end of 2009; and updated by March 2012 1c: Initial version of the technical manuals for IBAMA and DPF for utilization of ALOS/PALSAR images in detection of deforestation areas and preparation of Forensic Reports respectively are developed/approved by September 2011 (in English and Portuguese) 1d: The initial version of the technical manual for IBAMA is uploaded to SISCOM (*5) for the use of Environmental Analysts and the one for DPF is uploaded to InteliGEO(*6) for the use of Forensic Experts by October 2011. 1e: The initial version of the technical manuals for IBAMA and DPF are updated by March 2012 1f: The updated manuals are uploaded to SISCOM and InteliGEO respectively by April 2012 	 1a: Review of error report produced by IBAMA 1b: Review of the developed tools &progress reports 1c&e: Review of technical manuals & date of approval of each manual by the Project Manager of DPF and IBAMA respectively 1d&f: Review of the uploaded dates recorded in SISCOM and InteliGEO 	A: There is no significant organizational change in DPF and /or IBAMA affecting implementation of the Project B: Budgets for satellite monitoring of DPF and/or IBAMA do not decrease drastically
Output 2: The information flow of satellite monitoring system throughout DPF and IBAMA is improved	 2a: Information sharing mechanism of DPF developed by the Project (i.e. InteliGEO) is made available to all the Forensic Experts in Brazil by December 2009 2b: By the Project end, 100% of Forensic Reports produced by DPF Forensic Experts, utilizing/referring to ALOS/PALSAR images (mainly high-resolution ones), are made available in InteliGEO for other Experts within one week after the completion 2c: By the Project end, at least one access to INDICAR(*7)/SISCOM of IBAMA are made from each of the 9 Legal Amazon States per cycle of ALOS operation (i.e. 46 days) 2d: Semi-annual access to InteliGEO of DPF is increased by 5 % in relation to the previous semester. 2e: By the Project end, 90 % of the results of visits of the deforestation areas detected by INDICAR/SISCOM & ALOS/PALSAR (i.e. Deforestation Polygons) are fed back to IBAMA HQ 	2a:Record of the release date 2b:Check that all Forensic Reports in Criminalistica uploaded in InteliGEO, and the ones that are not more than a week old 2c: Record of access to INDICAR 2d: Record of access to InteliGEO 2e:Record of feedbacks registered in the google.doc.	
Output 3: Human resources in DPF and IBAMA are upskilled to detect and characterize illegal deforestation	 3a: Basic and advanced courses for IBAMA and DPF for the general use of ALOS/PALSAR images, including curriculum and textbooks, are developed by September 2009 3b: Basic course specifically for the use of DPF Forensic Experts to produce Forensic Reports are developed by April 2012. 3c: By the Project end, 70 staff members (30 Forensic Experts of DPF and 40 Environmental Analysts of IBAMA) receive official training certificates for the use of ALOS/PALSAR images from IBAMA or DPF 3d: On average, 80% of the trainees give the highest or medium rate on three-level rating about "degree of understanding" and "degree of applicability" of the concerned trainings 3e: The training courses are updated based on the feedbacks from the trainees, including the results of monitoring and evaluation of the trainings, and other Project Activities 	3a: Project report &curriculum and textbooks developed 3b: ditto 3c: List of trainees 3d: Results of the questionnaires to the trainees 3e:Analytical report of training	

ANNEX 2 PDM 5			
Activities 1.1 Convert ALOS/PALSAR data format to fit into INDICAR/SISCOM 1.2 Develop methodologies to extract deforestation information from ALOS/PALSAR images. 1.3 Identify potential deforestation areas using ALOS/PALSAR images and other available geographic information 1.4 Develop technical manuals for DPF and IBAMA for utilization of ALOS images based on the results of the Activities 1.1-1.3 2.1 Document existing monitoring mechanism 2.2 Identify possible upgrading opportunities in the DPF/IBAMA deforestation monitoring mechanism 2.3 Improve the existing satellite information sharing mechanism of IBAMA HQ (i.e. INDICAR/SISCOM) 2.4 Develop an information flow between IBAMA and DPF HQs 2.6 Develop an intra-information flow mechanism between IBAMA HQ and its regional offices 2.7 Develop an intra-information flow mechanism between DPF HQ and its regional offices 3.1 Assess training needs to monitor and characterize illegal deforestation in DPF/IBAMA 3.2 Determine the training plan 3.3 Execute the training plan 3.4 Monitor/evaluate/upgrade the trainings (*1) ALOS: Advanced Land Observing Satellite launched by JAXA	 Inputs <brazilian side=""> Project & Administrative personnel Project Director Project Manager(s) Other project and administrative personnel </brazilian> (2) Office Spaces and Facilities Office space in IBAMA Other facilities necessary for the implementation of the Project (3) Administration and operational costs Japanese Side> Experts Remote Sensing/Administrative Coordination Information and Communication Technology Web-programming, GIS Other Experts necessary for the Project Training of Brazilian personnel in Japan Machinery and Equipment ALOS images, software, servers, storages Other materials necessary for the implementation of the Project 	A:Main project personnel are not transferred to other departments and/or agencies Pre-Conditions A: ALOS/PALSAR images (i.e. ScanSAR images) are provided by Japan Aerospace Exploration Agency (JAXA) based on the Agreement on Cooperation between JAXA and IBAMA B: DPF and IBAMA conclude an agreement on the joint implementation of the project	

(*2) PALSAR: Phased Array Type L-Band Synthetic Aperture Radar

(*3) ScanSAR: Scan Synthetic Aperture Radar

(*4) Forensic Report: Technical document produced by DPF Forensic Experts that aims to establish whether a crime has happened, how it happened, and who committed it. This document is used in criminal prosecutions.

(*5) SISCOM: Environmental information sharing mechanism of IBAMA

(*6) InteliGEO: Information sharing mechanism of DPF being developed by the Project under Output 2

(*7) INDICAR: Indicator of Deforestation for Radar Images.

(*8) As of November 2011, ALOS-2 is scheduled to be launched in August 2013. Its operation schedule, including the timing of commencement of provision of images, is expected to be released in advance of the launch. For reference, provision of ALOS images started within 3 months after its launch.

REPORT OF THE JOINT TERMINAL EVALUATION ON THE PROJECT FOR UTILIZATION OF ALOS IMAGES TO SUPPORT THE PROTECTION OF THE BRAZILIAN AMAZON FOREST AND COMBAT AGAINST ILLEGAL DEFORESTATION

December 1, 2011

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<Annex>

- Annex 1 PDM for Evaluation (Latest PDM with simple editorial errors corrected)
- Annex 2 Latest Plan of Operation with progress of activities
- Annex 3 Accomplishment of the Project
- Annex 4 Implementation Process of the Project
- Annex 5 Evaluation based on Five Evaluation Criteria
- Annex 6 Draft Modified PDM (Draft PDM 5)

<Reference Material (RM)>

- RMA Record of Brazilian Inputs
- RM B Record of Japanese Inputs
- RM C Data for Some Indicators
- RM D List of Project Deliverables

1. Introduction

1.1 Objectives of the Joint Evaluation

The evaluation activities were performed with the following objectives:

- (1) To verify the accomplishments of the Project compared to those planned;
- (2) To identify obstacles and/or facilitating factors that have affected the implementation process;
- (3) To analyze the Project in terms of the five evaluation criteria (i.e. Relevance, Effectiveness, Efficiency, Impact, and Sustainability); and
- (4) To make recommendations on the Project regarding the measures to be taken for the remaining period as well as the post-project period.

1.2 Members of the Joint Evaluation Team

(1) The Japanese Team

States in the second	Name	en a ser se blosition
Team Leader	Mr. ENDO Hiroaki	Director,
		Forest and Nature Conservation Division II,
		Global Environment Department,
		Japan International Cooperation Agency
Forest Conservation	Dr. HIRATA	Head of Climate Change Office,
/Satellite Image	Yasumasa	Forestry and Forest Products Research
Analysis		Institute
Technical	Ms. Patricia Shizuka	Staff, JICA Brazil
Dissemination	TAKEDA	
Cooperation	Mr. SEKIGUCHI	Officer,
Planning	Takuya	Forest and Nature Conservation Division II,
-		Global Environment Department, JICA
Evaluation/Analysis	Ms. HIROUCHI	Permanent Expert,
	Yasuyo	International Development Associates Ltd.

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(2) The Brazilian Team

Team Leader	Mr. Eron Carlos da COSTA	Project Analyst, Brazilian Cooperation Agency Ministry of External Relations
Member	Ms. Camila Aparecida LIMA	Analyst on Natural Resources and Environmental Analysis, Operational and Management Division, Centre of Amazon Protection System (CENSIPAM)
Member	Mr. Raphael de Oliveira BORGES	Support Analyst on Natural Resources and Environmental Analysis, CENSIPAM

1.3 Schedule of the Evaluation Study

The evaluation of the Project was conducted from November 16th to December 2nd, 2011. The Joint Review Team (hereinafter referred to as "the Team") collected the information through questionnaires and a series of interviews with Brazilian Project Personnel and Japanese experts. Based on the results of the review, the Team prepared a draft report and finalized it through a series of discussions on November 28th and 30th

2. Outline of the Project

2.1 Background of the Project

Amazon rainforest is the largest rainforest in the world and its conservation is very important for the whole earth. Despite the great efforts of the government of Brazil to conserve it, the forest is decreasing because of several causes such as environmental crimes.

Satellite images are useful tools to monitor the situation of vast Amazon rainforest. The Brazilian government has used them to protect Amazon rainforest from 1970s and developed satellite monitoring systems by using optical sensors. Brazilian monitoring systems are one of the world's advanced systems, and have produced good results on forest conservation.

Satellite monitoring systems play an important role in the Plan of Action for the Prevention and Combat against the Deforestation in Amazonia (PPCDAM). The plan has been operated through a partnership of 13 ministries, and as a result, 20 million hectares of conservation units were created, the System of Real Time Detection of Deforestation (DETER) and the Project on the Monitoring of Deforestation in Legal Amazon (PRODES) were established, the Document of Forest Origin (DOF) which proves legal tree felling was introduced, number of imprisoned persons involved in environmental crimes increased, dozens of irregular companies were discovered, and the

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deforestation was remarkably reduced.

Although satellite monitoring systems are useful tools to monitor Amazon, there is a serious problem. Amazon is covered by thick clouds about half a year and during that time, monitoring by optical sensors is difficult.

The Japanese satellite Advanced Land Observing Satellite DAICHI (hereinafter referred to as "ALOS") loads a Phased Array Type L-band Synthetic Aperture Radar (hereinafter referred to as "PALSAR"), which can obtain images regardless of the weather. By using ALOS, it becomes possible to monitor the Amazon rainforest throughout the year so that a deterrent effect to environmental crimes can be strengthened.

Beside that, other ALOS images of high resolution (PRISM-Panchromatic Remote Sensing Instrument for Stereo Mapping and AVNIR2-Advanced Visible and Near Infrared Radiometer type 2) can be useful in law enforcement improving the forensic reports that are essential documents to describe the proofs of crimes and to avoid the impunity of environmental criminals.

Therefore, the Japanese technical cooperation project "the Project for Utilization of ALOS Images to support the protection of the Brazilian Amazon Forest and Combat Against Illegal Deforestation" started in June 2009, and Japan International Cooperation Agency (hereinafter referred to as "JICA") will cooperate with the Department of Federal Police (hereinafter referred to as "DPF") and the Brazilian Institute for the Environment and Renewable Natural Resources (hereinafter referred to as "IBAMA") until June 2012.

In April 2011, ALOS has happened to complete its operation due to technical matter. So, new ALOS/PALSAR images have not been provided since this. However, the Project is continuing technical transfer to drive for ALOS-2 which will be launched in the near future, especially focusing on technics concerning analysis/change detection of satellite images and preparation of forensic reports.

Now, as the remaining period of the Project is only half a year, the Team was formed for this terminal evaluation survey.

2.2 Summary of the Project

- (1) The Project Purpose: Technical information based on ALOS/PALSAR images on illegal deforestation in the Brazilian Amazon is provided for law enforcement
- (2) The Overall Goal: Law enforcement is enhanced ground on technical information based on satellite images on illegal deforestation
- (3) The Outputs:
 - 1) Output 1: Deforestation areas including suspicious areas are detected using ALOS/PALSAR data
 - 2) Output2: The information flow of satellite monitoring system throughout DPF and IBAMA is improved

3) Output3: Human resources in DPF and IBAMA are upskilled to detect and characterize illegal deforestation

3. Review of the latest Project Design Matrix (PDM)

For evaluation of a technical cooperation of JICA, Project Design Matrix (hereinafter referred to as "PDM") and Plan of Operations (hereinafter referred to as "PO") are used as essential documents. Prior to the start of the evaluation, the Team reviewed the latest PDM (PDM4) approved by JCC in July 2011, and prepare a PDM for Evaluation (PDME) as a basis of the evaluation, in which some simple editorial errors are corrected (Annex 1). The PDME was prepared by the Team through consultation with Brazilian project personnel and Japanese experts. The latest PO (or detailed PO) with progress of its activities is also attached (Annex 2).

4. Methodology of the Evaluation

4.1 Data Collection Method

The Team made interviews with the Brazilian Project Personnel and the Japanese experts engaged in the Project. The Team also collected information through questionnaires from the concerned personnel.

4.2 Items of Analysis

(1) Accomplishment of the Project

The accomplishment of the Project was measured in terms of the Inputs, the Outputs and the Project Purpose in comparison with the Objectively Verifiable Indicators of PDM as well as the plan delineated in the R/D.

(2) Implementation Process

The implementation process of the Project was reviewed to see if the Activities have been implemented according to the schedule delineated in the latest PO, and to see if the Project has been managed properly as well as to identify obstacles and/or facilitating factors that have affected the implementation process.

(3) Evaluation based on the Five Evaluation Criteria

- (a) Relevance: Relevance of the Project was reviewed to see the validity of the Project Purpose and the Overall Goal in connection with the needs of the beneficiaries and policies of Brazil and Japan.
- (b) Effectiveness: Effectiveness was analyzed by evaluating the extent to which the Project has achieved and contributed to the beneficiaries.
- (c) Efficiency: Efficiency of the Project implementation was analyzed focusing on the

relationship between the Outputs and Inputs in terms of timing, quality, and quantity.

- (d) Impacts:Impacts of the Project were forecasted by referring to positive and negative impacts caused by the Project.
- (e) Sustainability: Sustainability of the Project was analyzed in institutional, financial and technical aspects by examining the extent to which the achievement of the Project would be sustained and/or expanded after the Project is completed.

5. Summary of Accomplishment and Implementation Process of the Project

5.1 Accomplishment of the Project (Details are described in Annex 3)

(1) Inputs (Details are described in section | of Annex 3)

Summary of Inputs is shown in the tables below.

Table 1: Summary of Brazilian Inputs

Allocation of Project	DPF:7persons	Allocation of local	US\$ 1,298,000
Personnel (P/P)	IBAMA: 8 persons	cost:	(as of November 2011)

Table 2: Summary of Japanese Inputs

Dispatch of Experts:	4 persons	Provision of	¥ 73.2 million
		Equipment:	
P/P trained in Japan:	16 persons (8 each from	Disbursement of local	¥ 29.3million (as of October
	DPF and IBAMA)	cost:	2011)

(2) Outputs (Details are described in section II of Annex 3)

(a) Output 1: Methodologies for deforestation detection, including interpretation guide, forest classification tool, and change detection tool, developed by the Project, are expected to be updated by March 2012. Initial version of the technical manuals for IBAMA and DPF have been developed and uploaded to SISCOM for the use of Environmental Analysts and to InteliGEO for the use of Forensic Experts of DPF respectively. The manuals are expected to be updated by March 2012 and uploaded to SISCOM and InteliGEO by April 2012.

Output 1 has been mostly achieved and is expected to be fully achieved by the Project end.

(b) Output 2 : Information sharing mechanism of DPF (i.e. InteliGEO) was officially released in November 2010. All of the Forensic Reports produced by DPF Forensic Experts, utilizing/referring to ALOS/PALSAR images, have been made

available in InteliGEO for other Experts within one week after their completion (i.e. within an average of 2 days). Semi-annual access to InteliGEO has been increased by more than 5% (i.e. 163%) in relation to the previous semester. Regional Offices in Legal Amazon States have been linked with INDICAR/SISCOM of IBAMA Headquarters since December 2009. According to IBAMA, all of the 9 Legal Amazon States utilized the Deforestation Polygons uploaded in INDICAR/SISCOM in the last 3 cycles of ALOS operation. Less than 10% of the results of the visits of the detected deforestation areas (i.e. Deforestation Polygons) used to be reported back from the Regional Offices, however. In order to ensure the feedbacks from the Regional Offices, IBAMA has developed a feedback system, but it has not been put into use due to unexpected termination of operation of ALOS in April 2011.

Output 2 has been mostly achieved. It is expected that, in effect, the Output would be achieved by the Project end.

(c) Output 3: Basic and Advanced Courses for IBAMA and DPF for the general use of ALOS/PALSAR images have been developed. So far, four trainings (i.e. three Basic and one Advanced Courses) have been conducted and a total of 60 training participants (i.e. 28 DPF Forensic Experts and 32 IBAMA Environmental Analysts) have been awarded the certificates by IBAMA. Since the second Advanced Course for general use was canceled due to unexpected termination of ALOS operation, the number of staff members, in particular those from IBAMA, trained through the Project would be less than planned. Meanwhile, DPF plans to develop a web-based Basic Course training, expecting that the Course would be included in the online training program offered by the National Police Academy. Evaluation of the training is yet to be conducted though informal feedbacks from the trainees have been reflected in planning of the subsequent trainings. It is noted that the Project plans to conduct evaluation by the Project end.

Output 3 has been mostly achieved but would not be fully achieved due to an external condition beyond the control of the Project (i.e. unexpected termination of ALOS).

(3) Project Purpose (Details are described in section III of Annex 3)

Time for the deforestation detection after IBAMA received the Scan Synthetic Aperture Radar (ScanSAR) images of ALOS/PALSAR decreased from more than one month in the beginning of the Project to average of 9.5 days, including rest days, at the last Cycle of

ALOS operation. With a semi-automatic change detection tool under development in place, it is technically possible to further reduce the time for the deforestation detection to 2 working days.

With regard to provision of the location and size of the detected deforestation (i.e. Deforestation Polygons) to the Regional Offices of IBAMA, the gap in time decreased from 69 days in the beginning of the Project to average of 5.78 days at the last Cycle of ALOS operation. At present, it is technically possible for IBAMA to provide the Deforestation Polygons soon after the Polygons are produced on INDICAR/SISCOM by putting them in the database of SISCOM called "Geo DB", which regional staff can access through internet and use the information in GPS and mobile devices in the field.

Total of 90 Forensic Reports on illegal deforestation cases, which utilize/refer to ALOS/PALSAR images, were produced by DPF Forensic Experts from December 2010 to November 2011.

5-2 Implementation Process of the Project (Details are described in Annex 4)

Overall, the Project has been proceeding well though some of the Activities could not be implemented as planned mainly due to external factors beyond control of the Project.

The Project has been implemented jointly by DPF and IBAMA. Though the agreement for joint implementation has not been concluded as initially planned, both organizations have worked in close partnership. Communication within the Project is sufficient for smooth implementation. Cooperative relations between Brazilian and Japanese sides have been built up. The Project has coordinated/collaborated with various organizations, including INPE and CENSIPAM. Initiative and commitment of the Director of Technical Scientific Directorate (DITEC) of DPF (as Project Director) and Director of Environmental Protection Directorate (DIPRO) of IBAMA as the chairman of the Joint Coordinating Committee (JCC) as well as motivation and diligence of the Project Personnel have been identified as the factors that have facilitated the implementation process. Through a series of discussions with the Project Personnel and the Japanese Expert Team at Mid-term Review, the PDM as well as the PO became detailed enough as a management tool for the Project.

6. Summary of Evaluation based on Five Evaluation Criteria

6.1 Relevance (Details are described in Section 1 of Annex 5)

The Overall Goal and the Project Purpose are still relevant with the needs of Brazil and Target Groups (i.e. Forensic Experts of DPF and Environmental Analysts of IBAMA).

They are still consistent with the national development plan of Brazil as well as the Official Development Assistance (ODA) policies of Japan. Japanese technical advantage has been confirmed. The comparative advantage of ALOS/ALOS-2 images in forest monitoring has been also confirmed.

Overall, the Project is still relevant.

6.2 Effectiveness (Details are described in Section II of Annex 5)

Although objectively verifiable data was not available because production of Deforestation Polygons has been discontinued due to ALOS shutdown, judging from the achievement level of the Indicators, the Project Purpose is expected to be practically achieved by the end of the Project with continuous effort of the Brazilian and Japanese sides.

Logical relation between the Project Purpose and the Outputs is confirmed. All of the Outputs (i.e. development of methodologies for deforestation detection, improvement of satellite information flow throughout DPF and IBAMA, and development of human resources in DPF and IBAMA for detection and characterization of deforestation) are relevant with the Project Purpose. They have contributed to the achievement of the Project Purpose.

Taken together, the Project is considered to be practically effective.

6.3 Efficiency (Details are described in Section III of Annex 5)

Progress has been made mostly as expected in producing Outputs, judging from the achievement level of its Indicators as well as the progress of the Activities. Output 1 and Output 2 would be produced by the end of the Project. Output 3 has been mostly produced but would not be fully produced by the Project end mainly because of unexpected termination of ALOS operation.

Inputs from the Brazilian and Japanese sides have been mostly appropriate in producing the Outputs in terms of timing, quality and quantity, except for (i) the delay of the initial delivery of the equipment and high-resolution images of ALOS/PALSAR, which are necessary for operationalization of information sharing mechanism of DPF (i.e. InteliGEO) and production of Forensic Reports with ALOS images and (ii) absence of IT specialist(s) solely engaged in INDICAR/SISCOM of IBAMA. As for the former, the adverse effect on production of the Output was minimized because IBAMA, as an emergency measures, had rented their server computer for free of charge to DPF until the basic equipment was delivered and DPF made the existing equipment temporarily

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available for the Project. Absence of IT specialist(s) solely engaged in INDICAR/SISCOM is a lingering concern for CSR/IBAMA. The Evaluation Team notes that through the hard work of the IT specialists, who worked with INDICAR/SISCOM on part-time basis, as well as support and collaboration from their colleagues and Japanese Expert team, the Output is being produced.

The Inputs are considered to have contributed to production of the Outputs mostly. Overall, the Project is considered to have been mostly efficient.

6.4 Impacts (Details are described in Section IV of Annex 5)

Impacts at the Overall Goal level: The Overall Goal is likely to be achieved in three years after the Project end. The Evaluation Team notes that (i) "responsibilities of DPF and IBAMA in law enforcement in the Brazilian Amazon do not change drastically" and (ii) "ALOS-2 launch and provision of its images does not fall behind schedule significantly" and (iii) "provision of ALOS-2 images is not discontinued" are additional important assumptions for the Overall Goal.

<u>Other impacts</u>: Various positive impacts have been observed already and more are foreseen. For example, satellite monitoring of Brazilian Amazon has become possible in all seasons of the year. More than 2,000 deforestation areas have been detected by IBAMA. According to IBAMA, the deforested area in Brazilian Amazon has decreased by 40% in the last two years, part of which is attributable to the efforts made by its staff members utilizing the ScanSAR images of ALOS/PALSAR and INDICAR/SISCOM for law enforcement. Through establishment of InteliGEO, useful information for production of Forensic Reports, including high-resolution images of ALOS/PALSAR, has become available to all DPF Forensic Experts in Brazil. Utilizing the ALOS/PALSAR images and InteliGEO, DPF has become able to produce Forensic Reports in better quality, with more reliable and updated information from multiple sources to convince judges. Moreover, InteliGEO is expanding its border to other forensic issues. Negative impacts have not been observed. They are not foreseen, either.

6.5 Sustainability (Forecast) (Details are described in Section V of Annex 5)

Institutional and organizational aspects: Policy support for law enforcement using technical information based on satellite monitoring in Brazilian Amazon is likely to continue. Almost all of the Brazilian project personnel are permanent staff of the Government of Brazil, whose employment is ensured. They are expected to be assigned to the relevant posts in the post project period so that they could utilize the techniques/experiences obtained through the Project continuously. The collaborative

relationship between DPF and IBAMA has been enhanced through joint implementation of the Project. For reference, DPF and IBAMA have taken up process of developing an umbrella agreement on collaboration.

<u>Financial aspects</u>: So far, DPF and IBAMA have allocated necessary budget for the implementation of the Project activities. Budgets for Environmental Forensic Section (APMA) of INC/DPF and Remote Sensing Center (CSR) of IBAMA have been increasing, reflecting the commitment of the both organizations on the combat for illegal deforestation in Brazilian Amazon as well as the organizational interests in utilizing satellite images for law enforcement. In addition, DPF has already started mobilizing financial (as well as technical) resources in expanding InteliGEO from those who are interested in using it. In the meantime, it is uncertain whether or not budget for high-resolution images of ALOS/PALSAR, which are procured by JICA during the Project, would be secured by DPF after the end of the Project, especially in light of recent restriction on purchasable number of the ALOS images for research purpose that are available at discounted price.

<u>Technical aspects</u>: Project staff of DPF and IBAMA have been playing main role in planning, implementation, and monitoring of the Activities with minimal advisory support from the Japanese Experts. They are expected to be equipped with sufficient skills and knowledge to continue the relevant Activities by the Project end: however, it is uncertain whether or not they are fully ready for ALOS-2 images without further technical support. The transferred methods and techniques as well as the project deliverables are relevant with the local level and needs. Judging from specifications of sensor of ALOS-2, they would be applicable to ALOS-2 though some modification may require. They are expected to be continuously utilized and/or disseminated, considering appreciation shown by the DPF and IBAMA and their demonstrated commitment in their respective field of responsibility. The equipment provided by the Project is expected to be fully utilized after the end of the Project.

From a comprehensive viewpoint, sustainability of the Project is likely to be ensured on condition that (i) ALOS-2 launch do not fall behind schedule (i.e. August 2013) seriously: (ii) responsibilities of DPF and IBAMA in law enforcement in the Brazilian Amazon do not change drastically: and (iii) DPF can manage to secure budget for procurement of necessary ALOS/ALOS-2 images.

7. Conclusion

With active involvement of the committed Brazilian Project Personnel and support of

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the dedicated Japanese Experts, the Project Activities have been implemented without serious problems, producing the Outputs (i.e. development of methodologies for detection of deforestation area using ALOS/PALSAR images, improvement of information flow throughout DPF and IBAMA, and development of human resource in detection of deforestation area and production of Forensic Report on illegal deforestation, using ALOS/PALSAR images) almost as planned, in spite of unexpected termination of ALOS operation in April 2011. The Project Purpose is expected to be practically achieved by the Project end: therefore, the Project will be successfully terminated in June 2012 as planned.

Regarding the evaluation criteria, the Project is considered to be relevant because the Overall Goal as well as the Project Purpose still agree with the needs of Brazil. In addition, comparative advantage of ALOS/ALOS-2 in forest monitoring is confirmed. The Project is considered to be practically effective because (i) the Project Purpose is expected to be practically achieved in spite of unexpected termination of operation of ALOS through effort of Brazilian Project Personnel and support from Japanese Experts; and (ii) all of the Outputs have contributed to achievement of the Project Purpose. The Project has been conducted mostly efficiently because both Brazilian and Japanese side have overcome constraints of some of the Inputs through mutual collaboration. The Overall Goal is likely to be achieved in three years after the Project end. Various positive impacts have been observed already and more are foreseen. Sustainability of the Project is likely to be ensured on condition that (i) ALOS-2 launch do not fall behind schedule (i.e. August 2013) seriously: (ii) responsibilities of DPF and IBAMA in law enforcement in the Brazilian Amazon do not change drastically: and (iii) DPF and IBAMA can manage to secure obtain the ALOS/ALOS-2 images.

In sum, the Project has made valuable contribution to combat against illegal deforestation in Brazilian Amazon. With continuous effort of Brazilian side, it is expected that the acquired skills and knowledge as well as the project deliverables will contribute to law enhancement on illegal deforestation and to protection of the Brazilian Amazon further.

8. Recommendations and Lessons Learned

8.1 Recommendations

8.1.1 Recommendations within the project period

(1) Preparation for utilization of ALOS-2/PALSAR images (Output 1)

Since ALOS-2 will be launched in near future, it is recommended to prepare for utilization of ALOS-2/PALSAR images in terms of collecting information on analysis/interpretation techniques. For this objective, DPF and IBAMA should identify the necessary activities to enable prompt utilization of ALOS-2/PALSAR data.

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(2) Preparation of Post-project strategies

Post-project strategies for each Output should be developed by the end of the Project in order to sustain the effect of the Project.

(3) Agreement between DPF and IBAMA

Currently DPF and IBAMA are coordinating an agreement for ensuring the collaboration between the two organizations after the termination of the Project. It is recommended that DPF and IBAMA make efforts to conclude the agreement by the end of the Project.

(4) Modification of the PDM

The PDM should be modified in regards of the Objectively Verifiable Indicator for the Overall Goal and Important Assumption for the Overall Goal in order to clarify definition and target of enhancement of law enforcement. The draft of modified PDM (draft PDM5), prepared through a series of discussions with the Project Personnel and the Japanese Experts, is attached as Annex 6. The modified PDM should be submitted to the meeting of JCC on 2 December 2011 for its review and approval. It is noted that the Indicator for the Overall Goal may be modified by the Project end depending on the contents of the Lower House's Bill No 1, 2010, regarding cooperation between Federal, State, Federal District and Municipal Governments on protection of natural environment, which is being finalized.

(5) Allocation of IT Specialist(s) at CSR/IBAMA

IBAMA should solve the absence of IT specialists by allocation of IT specialists and collaboration with related sections to improve INDICAR/SISCOM operation.

(6) Technique of semi-automatic change detection from ALOS/PALSAR image (Output 1)

Technique of change detection from ALOS/PALSAR image plays a key role to reduce the time of illegal deforestation detection with ALOS/PALSAR image. Therefore the technique for semi-automatic change detection, being developed, should be included in the technical manual for IBAMA by the end of the Project.

(7) Evaluation of training courses (Output 3)

The results of questionnaires for the past training courses should be analyzed to improve future courses.

(8) Preparation of Terminal Report

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The Terminal Report should be prepared and submitted to the final JCC as per the Detailed Plan of Operation (DPO). Contents of the Report include progress of DPO and Indicators, issues, post-project strategies, progress in implementation of the recommendations of the Terminal Evaluation.

(9) Organization of Periodical Meetings

DPF and IBAMA should continue periodical meeting at least once a month to further improve the coordination and monitoring of the Project, with the participation of Japanese Experts in Brazil and, if necessary, JICA Brazil. After the end of the Project, DPF and IBAMA are recommended to hold the meeting regularly to continue the activities.

8.1.2 Recommendations after the end of the Project

(1) Dissemination of the Results of the Project

Considering the good results of the Project, DPF and IBAMA should explore the possibilities of spreading the technology and results of the Project to other countries, for example through the Third Country Training Programme of JICA.

(2) Continuous use of ALOS data

Regarding high-resolution SAR images for Forensic Reports, which is provided by JICA during the Project period, it is recommended that the DPF makes efforts to ensure that images of ALOS and ALOS-2/PALSAR will be continuously obtained after the end of the Project.

On the other hand, IBAMA should also make efforts to guarantee that ScanSAR images of ALOS-2, which are necessary for the detection of illegal deforestation, will be provided based on the agreement between IBAMA and JAXA.

(3) Preparation for utilization of ALOS-2/PALSAR images

The necessary activities identified to prepare for prompt utilization of ALOS-2/PALSAR data should be implemented accordingly.

(4) Continuation of end-user assessment

DPF and IBAMA should implement the end-user assessment at least once a year to improve the usage of InteliGEO and INDICAR/SISCOM.

(5) Continuation of Remote Sensing Trainings

Basic courses for general remote sensing techniques should be continued by IBAMA after the end of the Project.

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8.2 Lessons Learned

The Team identified the lessons described below, learned from the experience and knowledge acquired from the implementation of the Project

- (1) In case of project that utilize satellite images, detailed planning concerning response when satellite complete the operation will enable rapid, smooth decision to take necessary actions for the project.
- (2) It is important to fit the project activities to common interests in order to guarantee the sustainability of Project results; for example, the system established by the Project was expanded and improved by inputs from other projects to make possible the multi-utilization.

End of Document

1. Project Name : The Project for utilization of ALOS images to support the protection of the Brazilian Amazon Forest and combat against illegal deforestation PDM34 app

PDM34 approved on Nev. 19, 2010 July 20, 2011

Project site: Brasilia
 Duration: From June 2009 to June 2012 (three years)
 Duration: From June 2009 to June 2012 (three years)
 Target Beneficiaries: Forensic Experts of Federal Police Department (DPF) and Environmental Analysts of Brazilian Institute for the Environment and Renewable Nature Resources (IBAMA)
 Target Area: Brazilian Amazon (i.e. 9 Legal Amazon States: Acre, Amapa, Amazons, Maranhao, Mato Grosso, Para, Rondonia. Roraima Torantino.

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1.1.2	Establish preprocess functions to use an individual PALSAR image for SISCOM/INDICAR.	Preprocess conduceted without errors	╶┨╢╴				 	BAMA ditto	ditto	t t		Completed by Project end, <u>B2</u> =ongoing with some problems A / to be completed, B3=ongeing with some	1
1.1.3	Create image catalog to access the PALSAR data uploaded in SISCOM	Catalog list exported as a file	┲╌╢				BA	BAMA ditto	di të	C III		A Problems/not to be completed C1=Not started (as planned)/ to	1
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1.1.6	Develop a plan to adapt INDICAR to ALOS-2 system.	Plan document prepared				-U. 	BANA	VA ditto	Gift Bift	ditte		C1 Additional activity planned for 2012 in wew of termination of operation of ALOS	v
1.2	Develop methodologies to extract deforestation information from ALOS/PALSAR images.	estation					BAWA	A Rodrigo (IBAMA)	Werner, Daniel, JE(R Felipe, Silvia (JBAMA), Ono)	JE(RSI/Adm-) Ono)			
1.2	5	Interpretation guide	┼┲╌┍				BAWA	A ditto	e. B	đi Đi			
1.2.2	Develop a forest classification (i.e. discrimination of forest/non-forest) tool, using ALOS/PALSAR images	Forest classification tool developed	┼ ┨ ╢──				BAWA	A dite t	ditto	ditto	∢		
1.2.3	Develop a change detection tool for identification of possible deforestation areas through conducting time series analysis using the results of Act.1.2.2	Change detection tool developed					BAWA	aito dito	ŝ		∢		
1.2.4	Validation/Evaluation and improvement of the methodologies developed	Methodologies validated and improved				┽ <u>╋</u> ┤┟ ┽┻┤┟ ┥┛┴		A ditto	ditto	ditto	<u> </u>		
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2.3.4 Implement the end-user assessment Assessment 2.3.5 Excute further upgrading based on the end-user Assessment 2.3.6 Excute further upgrading based on the end-user Mechanism 2.3.6 Excute further upgrading based on the end-user Mechanism 2.4 Develop a information sharing mechanism at DFF Arrenot on psin 2.4.1 Prepare a plan Arrenot on psin 2.4.2 Develop the mechanism based on the plan (2.4.1) Exclusion 2.4.3 Implement integration and performance test on the eveloped Merenot on eace 2.4.3 Implement intergration and performance test on the eveloped Merenot on eace 2.4.3 Implement the end-user assessment Aresettion and Merenot on eace 2.4.4 Cerationalize the Intel/GEO dificially Tendoned as Merenot on eace 2.4.4 Cerationalize the Intel/GEO based on the assessment Merenoted and Merenoted and 2.4.4 Upgrade the Intel/GEO based on the assessment Merenoted and </th

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	Access to INDICAR become possible through Intel/GEO	Assessment conducted twice	Mechanism upgraded	hanism ffices	A report on plan developed	A report on design developed	Performance report developed	Information transmitted between IBAWA and 9 Amazon State Offices	Assessment conducted twice	Mechanism upgraded	lanism Ses	A report on plan developed	A report on design developed Equipment installed based on the devive	Performance report developed	
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	2.5.4 Operationalize the mechanism officially	2.5.5 Implement the end-user assessment	Upgrade the mechanism based on the assessment	Develop an intra-information flow mechanism beteen IBAMA HQ and its Regional Offices	2.6.1 Prepare a plan	2.6.2 Develop the mechanism based on the plan (2.6.1)	Implement integration and performance test on the mechanism developed	2.6.4 Operationalize the mechanism in full-scale	2.6.5 Implement the end-user assessment	2.6.6 Upgrade the mechanism based on the assessment	Develop an intra-information flow mechanism beteen DPF HQ and its Regional Offices	2.7.1 Prepare a plan	2.7.2 Develop the mechanism based on the plan (2.7.1)	Implement integration and performance test on the mechanism developed	
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2.7.	2.7.4 Operationalize the mechanism in full-scale	Information transmitted between IntelAGEO and 3 Arnazon State Offices			┤┨╢					tite Diffe	ditte	2 370	Since internet speed is not as fast as desired in Regional Offices for transmission of ALOS/PALSAR images, media transre by DHL is being considered as a precifical solution	ANITA ST
2.7.4	2.7.5 Implement the end-user assessment	Assessment conducted twice						DPF		ditto	ditto		B1 Same as Act. 2.5.4	
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3.1 j	Assess training needs to monitor and characterize illegal deforestation in DPF/IBAMA	Jaracterize	╶┲╢╌┤					BAMA Hun (IB/	Humberto Da Ra Ra	Rodrigo, Werner, Rafael, J Daniel, Felipe (BAMA) M Rafael, Magliano (DPF) G	E(RSI/Adm- Dro, GIS1- awaguchi, SIS2/Web- uruhahsi)	₹		
3.2 [Determine the training plans							IBAWAND Wei PF (1B4	Werner (IBAMA)/R De afael (DPF) Lu	Rodrigo, Werner, Rafael, Daniel (IBAMA) Rafael, Russo, Diogo, Luciano, Garcia (DPF)	đị tộ			
3.2.1	Develop training plan Basic Course for those who do not have technical background using ALOS/PALSAR images, including curriculm and materialsl, including curriculm and materials	Three GIS and RS courses planned/updated	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;				<u> </u>	IBAMA (IBAMA)		Rodrigo, Werner, Rafael, Humberto, Sano, Daniel (IBAMA)	địt	₹		
3.2.2	Develop training plan for Advanced Course for those who have technical background using ALOS/PALSAR images, including curriculm and materials	Two GIS and RS courses planned/updated						BAMA ditto		etter etter		<u>_</u>	 Due to termination of ALCS operation, the second advance course was canceled via decision of the third JCC in June 2011, As an alternative, a 2-day followup training/TOT, utilizing the existing materials, for the H2 saft with advanced level is planned in 2012 	
3.2.3	Develop training plan for Basic Course specifically 3.2.3 for DPF Forensic Experts to produce Forensic Reports, including curriculm and materials	One GIS and RS courses planned				<u> </u>	 	DPF Rafael (DPF)		Rafael, Russo, Diogo, Luciano, Garcia d (DPF)	dit tit	B3	In light of budget cuts on travel costs for trainees from regional offices, a web- based distance training course (like the one offered at National Police Academy) is being planned.	
3.3 E	Execute the training plans.						<u><u> </u></u>	BAMAD Verner PF afae(DF)/R (1	Rodrigo, Werner, Rafael, Daniel (IBAWA) Rafael, Russo, Diogo, Luciano, Garcia (DPF)				
3.3.1	Evecute basic course for IBAMA and DPF (by IBAMA)	Three courses implemented						IBAMA ditto	A R	Rodrigo, Werner, Rafaei (IBAMA)	ditto	Training A cost		

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	Two courses implemented	On course implemented	i.		Results compiled within (time)	effe B	ditto Di		EvaluationI report with suggestions developed		ditto		The courses upgrade as needed	ditto	agenet and public addition	bast once ayear "M/M signed	
	2 Execute Advanced course for IBAMA and DPF (by IBAMA)	B Execute Basic course for DPF (by DPF)	3.4 Monitor/Evaluate/Upgrade the trainings	Moritor the trainings through questionmares at the end of each course	I Basic course in Brazil (IBAMA)	b Advanced course in Brazil (IBAMA)	Basic course in Brazil (DPF)	3.4.2 Evaluate the trainings	Basic course in Brazil (IBAMA)	Advanced course in Brazil (IBAMA)	Basic course in Brazil (DPF)	3.4.3 Upgrade the trainings based on the results of Monitoring and Evaluation and other Project Activities	Basic course in Brazil (IBAMA)	Advanced course in Braz		a	Prepare Annual PO for approval by JCC
	3.3.2	3.3.3	3.4 N	3.4.1	Ø	٩	U	3.4.2	ŋ	q	U	3.4.3	Ø	9	0		0.2

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0.3	Prepare Semi-annual Reports for submittion reports admined to JICA without deay	"Serri-annual "Serri-annual reports submitted to JICA without delay						DPF/IB ditto			ditto	Brazilan	Mote from DPO:Semi-amual progress of APOIndicators, issues dactions, pain for the providentier, progress made on the
0.4	Organize Project Executive Meetings (Project Director, JCC Chairman, Project Managers of IBAMA/DPF and Expert team)						DPF/	DPF/IB AMA	E E		ditto		recontremands of use Moreem revewetc. Included Note Erron DPO2.Semi-annual report
0.5	Prepare Annual Reports for review by JCC	*Draft prepared before JCC	1				A D	DPF/IB AMA	di to		ditto		presented a discussed Nate from DPC: Progress of Indicators&annual PO, issues &actions, progress on the Recommendations of the
0.6	Prepare a Terminal Reportor review by the final JCC	•Draft prpared before the final JCC			-		DPF	DPF/IB AMA	ditto		di tto		Mid-term Review, etc. are included Note from DPC. Progress of Indicators&DPO, issues& post-project strategies, progress on the freat-connendation of the final Even-
0.7	Organize internal Meetings periodically						DPF/	DPF/IB AMA ditto	e t		JE(RSI/Adm-	\rightarrow	etc. are included
	a Meeting between DPF & IBAMA	Monthy meeting held				╌┛╎	- Ad M	DPF/IBA Megliano MA e (IDPF)/Georg	6 6001g A)	5 2 8	orio) All experts in Brazil		Note from DPO: Progress & plans, issues & actions discussed.
		Weekly meeting held when J/E are in Brazil							o(DP ditto	ditto	g		Note from DPO: Progress of the perevious week, plan for the week, issues&actions
	c Meeting between IBAMA & Japanese Experts	ditto					BAW	A George	ette Otte	ditto			discussed
0.8	dicators	Information collected and organized periodically					DPF	B	40.0	JE(R	JE(RSI/Adm- Ono)	\rightarrow	
0.9	Facilitate conclusion of Termo de Cooperacao Tecnica (DPF/IBAMA)	Conclusion facilitated					E DPF/IB	/IB Magliano(DP	ditto	JE(R	JE (RSI/Adm-	+	
0.10	Prepare for Joint Evaluation	"Necessry data is made available to the Mission					4	8		5 4	JE (RSI/Adm-	\rightarrow	
0.11	Follow-up the Recommedations of the Evaluation	All the recommendations implemented			╶┼┻╌╎┝ ╺╴	┍┼╬╶╎╎	DPF/IB	VIB diffe	dito	Quo B) B) B) B) B) B) B) B) B) B) B) B) B)	Ono) JE(RSI/Adm-	$\left \right $	
0.12	Organize project seminars	4 Seminars held					DPF/IB	/IB ditto	ditto		Uno) JE(RSI/Adm-		
0.13	Develop post-project strategy	Post-project strategy for each Output developed before UCC					DPF/IB	/IB ditto	<u>đ</u>		JE(RSI/Adm- One)		Post-project strategy for utilization of ALOSimages, information starting, and training would be developed by DPF and IRAMA respectively for review by JCF on
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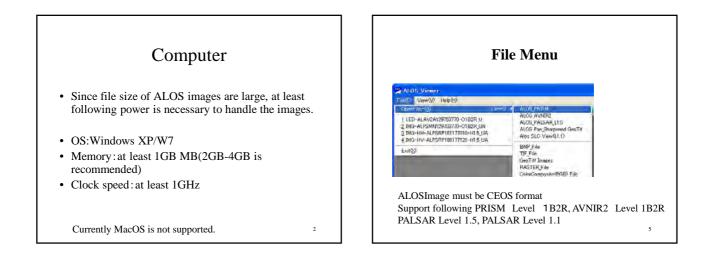
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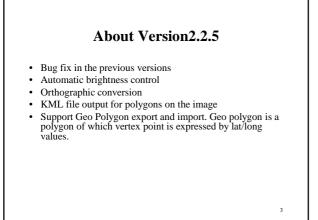
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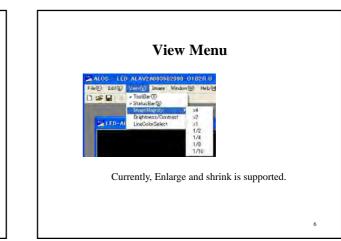
User's Manual of ALOS Viewer (Ver. 2.2.5)

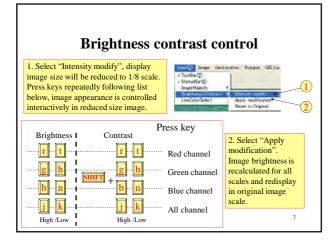
M. Ono Remote Sensing Technology Center of Japan

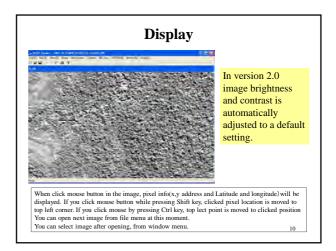


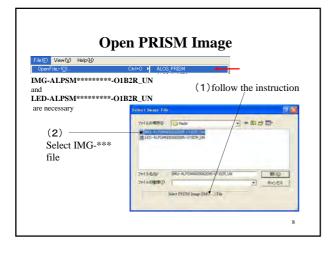


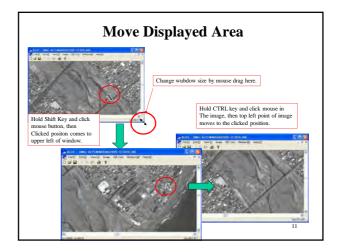


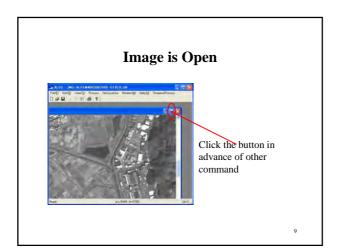


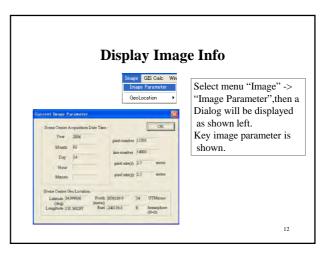


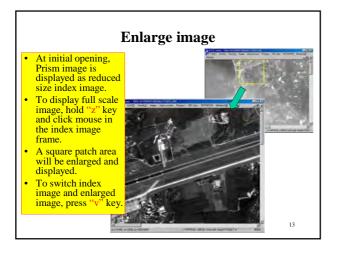








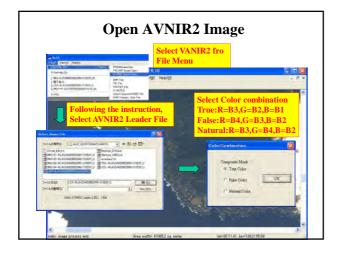


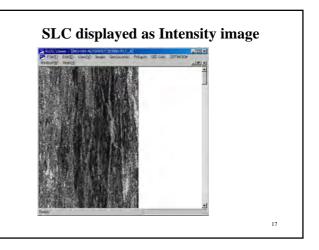


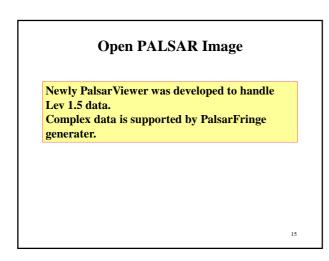
Open PALSAR SLC (complex Image)

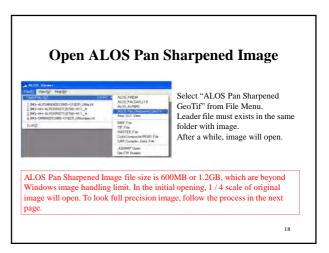


Single Look Complex Data(SLC) of SAR which is used by Interferometry or Polarimetry is not a raster image. It will be visualize after a processing to convert original data to intensity value. From File Menu of SLC, you can look at an intensity image of 1/4 scale of original. Holding "z" key and click a point in image, a 1/1 scaled small patch of the image will be displayed. Pressing "v" key will switch 1/4 scale and 1/1 scale







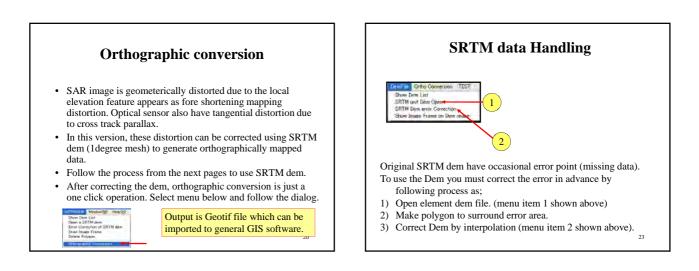


Display Full Precision Pan Sharpened image

- Clock mouse where you want to see with full precision, by holding "z" (Zoom) key.
- A 1024x1024 pixel area with clicked pixel at center will be open. Enlarge image of the patch is selectable from scale menu items.
- Press "v" key to switch to the reduced size image and full precision image.
- Click another place in reduced size image by holding "z" key will change the full precision scene.

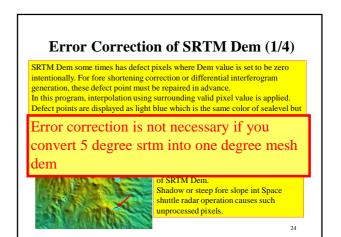
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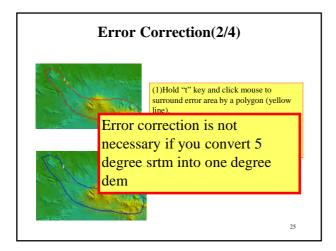
*SRTM: Shuttle Radar Topographic Mission²²

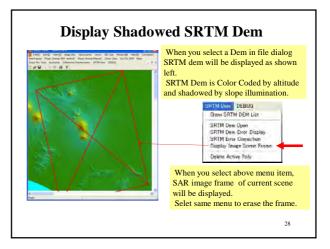


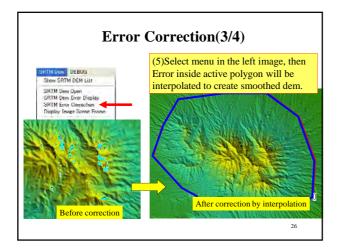
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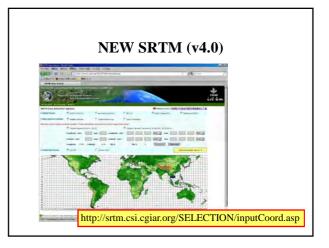
Conversion from 5 deg SRTM to 1 deg SRTM Ortho Conversion TEST 1. Select menu and find new style and Dem One dem name and prepare the data. 2. Then click OK. 3. five degree dem is cut to one degree dem to fit with old style. 4 25 one degree dem will be created from a unit five degree dem. 21

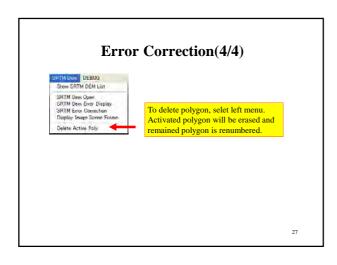


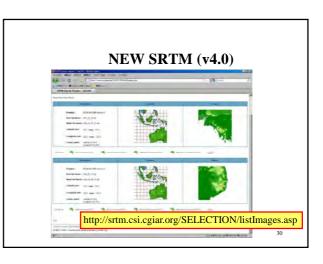


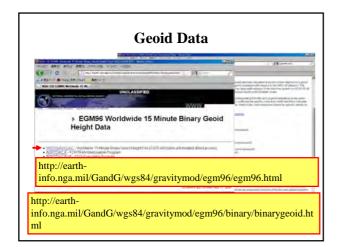


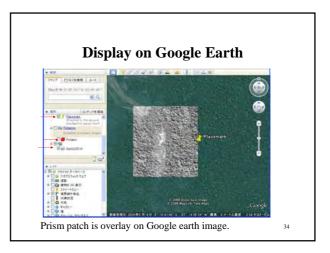


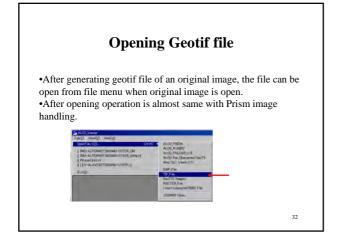


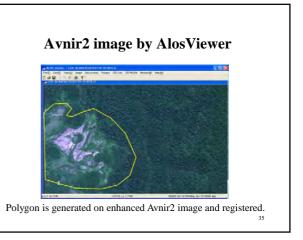


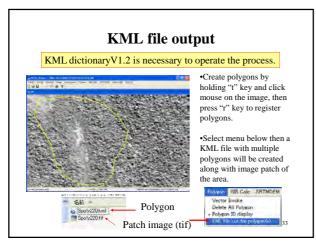


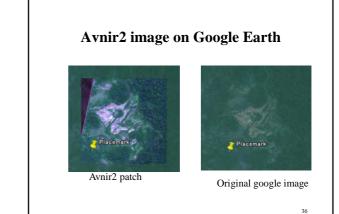








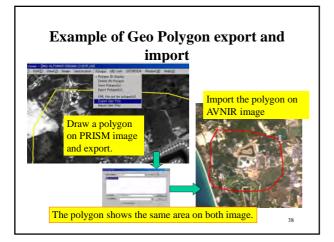




Multiple Geo polygon handling

- Polygon drawn on a ALOS image can be exported as text file and the text file can be imported from other ALOS images.
- For example draw a polygon on AVNIR image and export then import the polygon on a PALSAR image which covers the same area with the AVNIR image.

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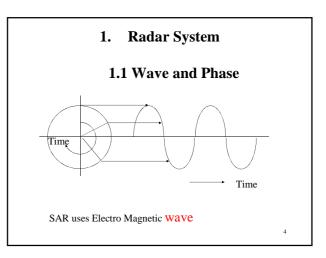


June 1st 2010

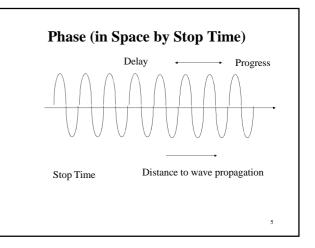
User's Manual of ALOS PALSAR Fringe Version 4.0

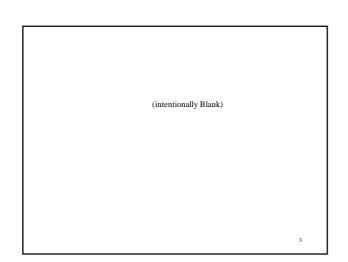
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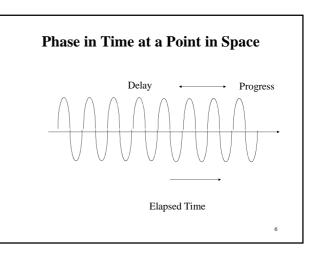
Remote Sensing Technology Center of Japan



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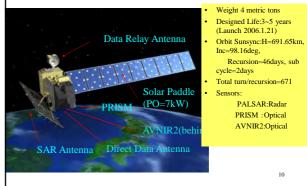


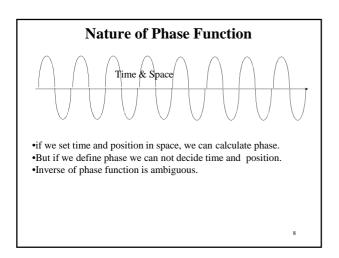


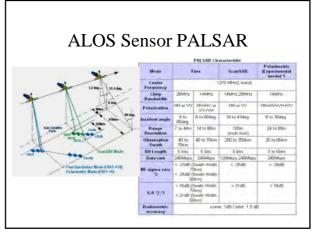
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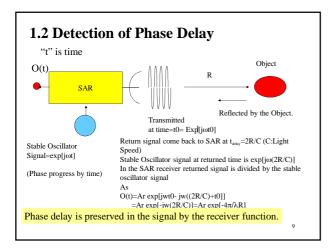
w:angular frequency (=2πf)
 R: distance along wave propagation
 λ:wavelength

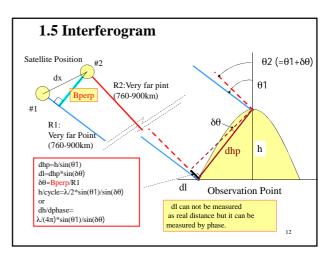
1.3 About ALOS Satellite

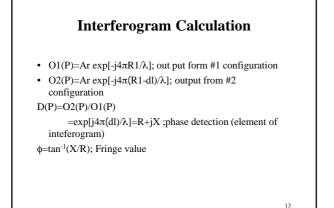


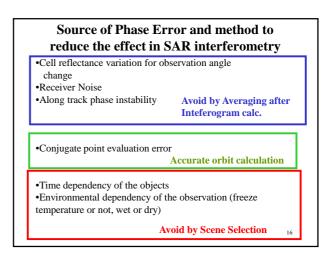


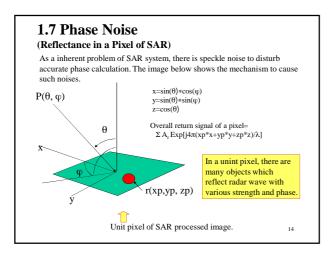


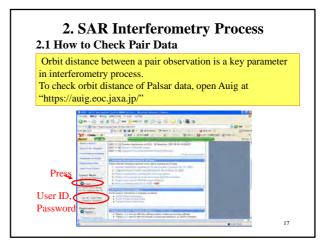


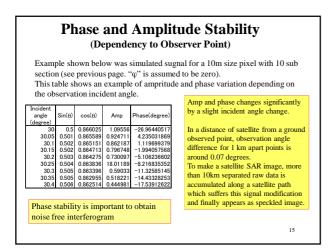


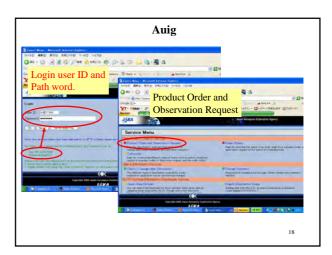


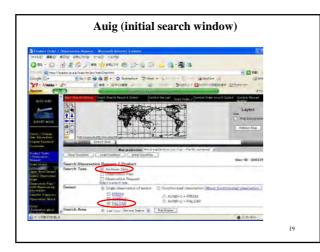




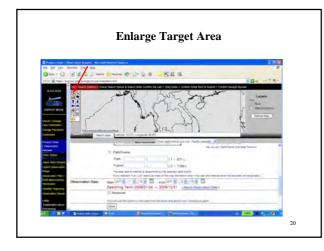






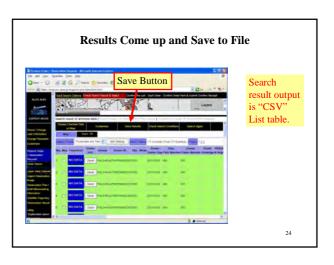


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A_PSPERTED 215007 48 280 - M1 - M000411A + M00011A +</td></td></t<></td> | Databas Databas Display Display <t< td=""><td>PALAMA APPS/07/07D 232/021 465 301 - 3.3 (maskama a) Maskama Maskama<!--</td--><td>JALAM JOSOFT DS 20027 ARE DOI: L L MOREMENA H August Auroperror D10027 RE D00 L D00 L D00 L D00 L D00 L D00 D00</td><td>PALAM APPLORM 202007 460 2010 - M.3.1 INSIDE/LA MID Apple Advance 410 300 - 1.1 10000411.4 - Maple Advance 410 300 - 1.1 10000141.4 - Maple Advance 510007 6110007 617 300 - 51.1 10000141.4 Maple Advance 1110007 617 300 - 51.4 10007441.4 - Maple Advance 1110007 617 300 - 21.4 10007441.4 - Maple Advance 1110007 617 300 - 21.4 10007441.4 - Maple Advance 1110007 101 300 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3</td><td>PALAMA PALAMA PALAMA<</td><td>PALAM APPLORM 202007 485 300: 51. WIDEMALE # PALAM APPLORM 102007 487 500: 1.1 WIDEMALE # PALAM APPLORM 102007 417 500: 1.1 WIDEMALE # PALAM APPLORM 510007 617 500: 51. WIDEMALE # PALAM APPLORM 510007 617 500: 51. WIDEMALE # <</td><td>PALADA APPOPUTIO 2320027 462 800 1 VL3 VIRIDALISA 8 VALADA APPOPUTIO 0.200027 462 800 1 VIRIDALISA 8 VALADA APPOPUTIO 0.200027 467 800 1 VIRIDALISA 8 PALADA APPOPUTIO 0.210007 477 800 1 1 10007447.A 8 PALADA APPOPUTIO 0.110007 477 800 1 1 10007447.A 8 PALADA APPOPUTIO 0.110007 477 800 3 8 10007447.A 8 PALADA APPOPUTIO 0.110007 107 300 3 8 10007447.A 8 PALADA APPOPUTIO 0.10007 107 300 3 4 10107447.A 8 PALADA 490007 107 300 3 4 1010747.A 8 PALADA 107000000000 107 3000</td><td></td><td>ALLAR APPENDIC S20207 AB S00 S1 S1 S000000000000000000000000000000000000</td><td>Ad A_PSPERTED 235007 48 280 - M3 - M3 - M00044 A + A
A_PSPERTED 215007 48 280 - M1 - M000411A + M00011A +</td></td></t<>
 | PALAMA APPS/07/07D 232/021 465 301 - 3.3 (maskama a) Maskama Maskama </td <td>JALAM JOSOFT DS 20027 ARE DOI: L L MOREMENA H August Auroperror D10027 RE D00 L D00 L D00 L D00 L D00 L D00 D00</td> <td>PALAM APPLORM 202007 460 2010 - M.3.1 INSIDE/LA MID Apple Advance 410 300 - 1.1 10000411.4 - Maple Advance 410 300 - 1.1 10000141.4 - Maple Advance 510007 6110007 617 300 - 51.1 10000141.4 Maple Advance 1110007 617 300 - 51.4 10007441.4 - Maple Advance 1110007 617 300 - 21.4 10007441.4 - Maple Advance 1110007 617 300 - 21.4 10007441.4 - Maple Advance 1110007 101 300 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3</td> <td>PALAMA PALAMA PALAMA<</td> <td>PALAM APPLORM 202007 485 300: 51. WIDEMALE # PALAM APPLORM 102007 487 500: 1.1 WIDEMALE # PALAM APPLORM 102007 417 500: 1.1 WIDEMALE # PALAM APPLORM 510007 617 500: 51. WIDEMALE # PALAM APPLORM 510007 617 500: 51. WIDEMALE # <</td> <td>PALADA APPOPUTIO 2320027 462 800 1 VL3 VIRIDALISA 8 VALADA APPOPUTIO 0.200027 462 800 1 VIRIDALISA 8 VALADA APPOPUTIO 0.200027 467 800 1 VIRIDALISA 8 PALADA APPOPUTIO 0.210007 477 800 1 1 10007447.A 8 PALADA APPOPUTIO 0.110007 477 800 1 1 10007447.A 8 PALADA APPOPUTIO 0.110007 477 800 3 8 10007447.A 8 PALADA APPOPUTIO 0.110007 107 300 3 8 10007447.A 8 PALADA APPOPUTIO 0.10007 107 300 3 4 10107447.A 8 PALADA 490007 107 300 3 4 1010747.A 8 PALADA 107000000000 107 3000</td> <td></td> <td>ALLAR APPENDIC S20207 AB S00 S1 S1 S000000000000000000000000000000000000</td> <td>Ad A_PSPERTED 235007 48 280 - M3 - M3 - M00044 A + A
A_PSPERTED 215007 48 280 - M1 - M000411A + M00011A +</td>
 | JALAM JOSOFT DS 20027 ARE DOI: L L MOREMENA H August Auroperror D10027 RE D00 L D00 L D00 L D00 L D00 L D00
 | PALAM APPLORM 202007 460 2010 - M.3.1 INSIDE/LA MID Apple Advance 410 300 - 1.1 10000411.4 - Maple Advance 410 300 - 1.1 10000141.4 - Maple Advance 510007 6110007 617 300 - 51.1 10000141.4 Maple Advance 1110007 617 300 - 51.4 10007441.4 - Maple Advance 1110007 617 300 - 21.4 10007441.4 - Maple Advance 1110007 617 300 - 21.4 10007441.4 - Maple Advance 1110007 101 300 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3000740.5 - 21.4 3
 | PALAMA PALAMA< | PALAM APPLORM 202007 485 300: 51. WIDEMALE # PALAM APPLORM 102007
487 500: 1.1 WIDEMALE # PALAM APPLORM 102007 417 500: 1.1 WIDEMALE # PALAM APPLORM 510007 617 500: 51. WIDEMALE # PALAM APPLORM 510007 617 500: 51. WIDEMALE # < | PALADA APPOPUTIO 2320027 462 800 1 VL3 VIRIDALISA 8 VALADA APPOPUTIO 0.200027 462 800 1 VIRIDALISA 8 VALADA APPOPUTIO 0.200027 467 800 1 VIRIDALISA 8 PALADA APPOPUTIO 0.210007 477 800 1 1 10007447.A 8 PALADA APPOPUTIO 0.110007 477 800 1 1 10007447.A 8 PALADA APPOPUTIO 0.110007 477 800 3 8 10007447.A 8 PALADA APPOPUTIO 0.110007 107 300 3 8 10007447.A 8 PALADA APPOPUTIO 0.10007 107 300 3 4 10107447.A 8 PALADA 490007 107 300 3 4 1010747.A 8 PALADA 107000000000 107 3000
 | | ALLAR APPENDIC S20207 AB S00 S1 S1 S000000000000000000000000000000000000
 | Ad A_PSPERTED 235007 48 280 - M3 - M3 - M00044 A + A
A_PSPERTED 215007 48 280 - M1 - M000411A + M00011A + |
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 | ■ Askan As/E000/FIDD 10:102007 837 360. 31.3 VIDE0153.5.4 H
RALSAR As/E000/FIDD 20:10207 66 350. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 360. 55.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 40.4 H
RALS

 | PALADA ALSPERETED 19102001 PALADA ALSPERETED 1910201

 | PALSAR ALSOPERTED 19102001 817 380 131 19020131A H
PALSAR ALSOPERTED 5110201 683 390 151 1902013A H
PALSAR ALSOPERTED 2110201 683 390 151 190001347 49
PALSAR ALSOPERTED 2110201 417 280 151 151 1900 151 151 1900
PALSAR ALSOPERTED 2110201 91 1900 151 151 151 151 151 151 151 151 151 1

 | PALSAR ALPSPECTRD SF002001 at7 380 31.1 YN020133.4 H PALSAR ALPSPECTRD S5002001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5102001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5110001 487 280 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 29.1 YN020137.4 H

 | PALSAR AFSRETTIO 59102007 487 380 541 790051314 H
PALSAR AFSRETTIO 59102007 487 380 540 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 7900 541 7900 541 7900
PALSAR AFSRETTIO 5510000 541 7900 550 550 550 550 550 550 550 550 550

 | Ala, MA Applicity Trip Structure 347 380 34.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y1000103.4 H Ala, MA Applicity Trip Structure 387.3 Y100103.4 H Ala, MA Applicity Trip Structure 387.4 H H H

 | Valuar Audiorechipo 510 2001 437 386 31.1 10000333.4 41 Valuar Audiorechipo 510 2007 467 380 51.2 10005443.4 41 Valuar Audiorechipo 51.1 10005443.4 41 43.2 40056447.4 41 Valuar Audiorechipo 2511/2007 437 380 52.3 10001437.4 41 Valuar Audiorechipo 2511/2007 437 38.0 52.4 1001437.4 8 Valuar Audiorechipo 53.4 10011437.4 8 3014374.5 8
 | Valada Au-Spectripp 5/10/2001 437 396 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 110055443.4 41 Valada Au-Spectripp 2511-0007 437 396 32.1 10055447.4 41 Valada Au-Spectripp 2511-0007 437 306 32.4 3031427.4 81

 | JALAMA APPOPYID DY10200F ATT 300 311 1005033.8 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005487.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 300170.4 H PALSMA APPOPYID 101302F 100 2000 - 214 M010102F H
 | PALALA ASPERTINO VS10207 ALT No. L1 VS0201 ALT PALALA ASPERTINO VS10207 ATT NO. S11 VS0404A, H PALSA ASPERTINO VS11007 461 300 S131 VS0404A, H PALSA ASPERTINO VS11007 467 300 S131 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALALA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H H PALSA ASPERTINO VS1007 17 300 S141 VS0404A, H H VS0404A, H H H H H H H

 | Algund Algund<
 | PALSAR ASSPECTOR 9103201 Bat 10.1 10020158.4 # PALSAR ASSPECTOR 9103201 BB. 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 514 000448.4 # PALSAR ASSPECTOR 2010200 483 400 344 4324914.6 # PALSAR ASSPECTOR 2010200 183 200 214 434914.6 # PALSAR ASSPECTOR 2010200 193 200 214 441914.0 # PALSAR ASSPECTOR 101 300 2100 214 441914.0 # | Paradiant Ansistement Sector and
Device and Device and Devi
 | PALSAR AFSREPTIO District BL Utblick H PALSAR AFSREPTIO District 480 500 5111 010000143.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 3201 400 5314 0100443.4 H PALSAR AFSREPTIO District 430 400 534 5014007 H PALSAR AFSREPTIO District 5200 - 214 10004136 H PALSAR AFSREPTIO District 5200 - 214 4001136 H
 | PALSIA APISPERTIC O102007 ATT NO L1 UNIXINIA N VALUA APISPERTIC 0102007 B10007 | Link A property to Structure If If<
 | ALLAR ALPSTRUK Stream ATT NORMAL ATT ALLAR ALPSTRUK Stream St | 44 AJ-969700 0912001 437 399 143 399 143 199 144 1990700 1992144 144 144 1990700 1991244 144 144 145 1990700 1991244 145 1991 1991244 144 145 199124 145 199124 145 199 |
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 | ■ Askan As/E000/FIDD 10:102007 837 360. 31.3 VIDE0153.5.4 H
RALSAR As/E000/FIDD 20:10207 66 350. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 360. 55.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 40.4 H
RALS

 | PALADA ALSPERETED 19102001 PALADA ALSPERETED 1910201

 | PALSAR ALSOPERTED 19102001 817 380 131 19020131A H
PALSAR ALSOPERTED 5110201 683 390 151 1902013A H
PALSAR ALSOPERTED 2110201 683 390 151 190001347 49
PALSAR ALSOPERTED 2110201 417 280 151 151 1900 151 151 1900
PALSAR ALSOPERTED 2110201 91 1900 151 151 151 151 151 151 151 151 151 1

 | PALSAR ALPSPECTRD SF002001 at7 380 31.1 YN020133.4 H PALSAR ALPSPECTRD S5002001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5102001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5110001 487 280 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 29.1 YN020137.4 H

 | PALSAR AFSRETTIO 59102007 487 380 541 790051314 H
PALSAR AFSRETTIO 59102007 487 380 540 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 7900 541 7900 541 7900
PALSAR AFSRETTIO 5510000 541 7900 550 550 550 550 550 550 550 550 550

 | Ala, MA Applicity Trip Structure 347 380 34.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y1000103.4 H Ala, MA Applicity Trip Structure 387.3 Y100103.4 H Ala, MA Applicity Trip Structure 387.4 H H

 | Valuar Audiorechipo 510 2001 437 386 31.1 10000333.4 41 Valuar Audiorechipo 510 2007 467 380 51.2 10005443.4 41 Valuar Audiorechipo 51.1 10005443.4 41 43.2 40056447.4 41 Valuar Audiorechipo 2511/2007 437 380 52.3 10001437.4 41 Valuar Audiorechipo 2511/2007 437 38.0 52.4 1001437.4 8 Valuar Audiorechipo 53.4 10011437.4 8 3014374.5 8
 | Valada Au-Spectripp 5/10/2001 437 396 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 110055443.4 41 Valada Au-Spectripp 2511-0007 437 396 32.1 10055447.4 41 Valada Au-Spectripp 2511-0007 437 306 32.4 3031427.4 81

 | JALAMA APPOPYID DY10200F ATT 300 311 1005033.8 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005487.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 300170.4 H PALSMA APPOPYID 101302F 100 2000 - 214 M010102F H
 | PALALA ASPERTINO VS10207 ALT No. L1 VS0201 ALT PALALA ASPERTINO VS10207 ATT NO. S11 VS0404A, H PALSA ASPERTINO VS11007 461 300 S131 VS0404A, H PALSA ASPERTINO VS11007 467 300 S131 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALALA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H H PALSA ASPERTINO VS1007 17 300 S141 VS0404A, H H VS0404A, H H H H H H H

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 | PALSAR ASSPECTOR 9103201 Bat 10.1 10020158.4 # PALSAR ASSPECTOR 9103201 BB. 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 514 000448.4 # PALSAR ASSPECTOR 2010200 483 400 344 4324914.6 # PALSAR ASSPECTOR 2010200 183 200 214 434914.6 # PALSAR ASSPECTOR 2010200 193 200 214 441914.0 # PALSAR ASSPECTOR 101 300 2100 214 441914.0 # | Paradiant Ansistement Sector and
Device and Device and Devi
 | PALSAR AFSREPTIO District BL Utblick H PALSAR AFSREPTIO District 480 500 5111 010000143.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 3201 400 5314 0100443.4 H PALSAR AFSREPTIO District 430 400 534 5014007 H PALSAR AFSREPTIO District 5200 - 214 10004136 H PALSAR AFSREPTIO District 5200 - 214 4001136 H
 | PALSIA APISPERTIC O102007 ATT NO L1 UNIXINIA N VALUA APISPERTIC 0102007 B10007 | Link A property to Structure If If<
 | ALLAR ALPSTRUK Stream ATT NORMAL ATT ALLAR ALPSTRUK Stream St | 44 AJ-969700 0912001 437 399 143 399 143 199 144 1990700 1992144 144 144 1990700 1991244 144 144 145 1990700 1991244 145 1991 1991244 144 145 199124 145 199124 145 199 |
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 | ■ Askan As/E000/FIDD 10:102007 837 360. 31.3 VIDE0153.5.4 H
RALSAR As/E000/FIDD 20:10207 66 350. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 360. 55.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 40.4 H
RALS

 | PALADA ALSPERETED 19102001 PALADA ALSPERETED 1910201

 | PALSAR ALSOPERTED 19102001 817 380 131 19020131A H
PALSAR ALSOPERTED 5110201 683 390 151 1902013A H
PALSAR ALSOPERTED 2110201 683 390 151 190001347 49
PALSAR ALSOPERTED 2110201 417 280 151 151 1900 151 151 1900
PALSAR ALSOPERTED 2110201 91 1900 151 151 151 151 151 151 151 151 151 1

 | PALSAR ALPSPECTRD SF002001 at7 380 31.1 YN020133.4 H PALSAR ALPSPECTRD S5002001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5102001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5110001 487 280 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 29.1 YN020137.4 H

 | PALSAR AFSRETTIO 59102007 487 380 541 790051314 H
PALSAR AFSRETTIO 59102007 487 380 540 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 7900 541 7900 541 7900
PALSAR AFSRETTIO 5510000 541 7900 550 550 550 550 550 550 550 550 550

 | Ala, MA Applicity Trip Structure 347 380 34.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y1000103.4 H Ala, MA Applicity Trip Structure 387.3 Y100103.4 H Ala, MA Applicity Trip Structure 387.4 H H

 | Valuar Audiorechipo 510 2001 437 386 31.1 10000333.4 41 Valuar Audiorechipo 510 2007 467 380 51.2 10005443.4 41 Valuar Audiorechipo 51.1 10005443.4 41 43.2 40056447.4 41 Valuar Audiorechipo 2511/2007 437 380 52.3 10001437.4 41 Valuar Audiorechipo 2511/2007 437 38.0 52.4 1001437.4 8 Valuar Audiorechipo 53.4 10011437.4 8 3014374.5 8
 | Valada Au-Spectripp 5/10/2001 437 396 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 110055440.4 41 Valada Au-Spectripp 2511-0007 437 396 32.1 10055447.4 41 Valada Au-Spectripp 2511-0007 437 306 32.4 3031427.4 81

 | JALAMA APPOPYID DY10200F ATT 300 311 1005033.8 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005487.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 300170.4 H PALSMA APPOPYID 101302F 100 2000 - 214 M010102F H
 | PALALA ASPERTINO VS10207 ALT No. L1 VS0201 ALT PALALA ASPERTINO VS10207 ATT NO. S11 VS0404A, H PALSA ASPERTINO VS11007 461 300 S131 VS0404A, H PALSA ASPERTINO VS11007 467 300 S131 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALALA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H H PALSA ASPERTINO VS1007 17 300 S141 VS0404A, H H VS0404A, H H H H H H H

 | Algala Algala Algala Algala Algala Vitro (Vitro) Bit (Vitro)
 | PALSAR ASSPECTOR 9103201 Bat 10.1 10020158.4 # PALSAR ASSPECTOR 9103201 BB. 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 514 000448.4 # PALSAR ASSPECTOR 2010200 483 400 344 4324914.6 # PALSAR ASSPECTOR 2010200 183 200 214 434914.6 # PALSAR ASSPECTOR 2010200 193 200 214 441914.0 # PALSAR ASSPECTOR 101 300 2100 214 441914.0 # | Paradiant Ansistement Sector and
Device and Device and Devi
 | PALSAR AFSREPTIO District BL Utblick H PALSAR AFSREPTIO District 480 500 5111 010000143.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 3201 400 5314 0100443.4 H PALSAR AFSREPTIO District 430 400 534 5014007 H PALSAR AFSREPTIO District 5200 - 214 10004136 H PALSAR AFSREPTIO District 5200 - 214 4001136 H
 | PALSIA APISPERTIC O102007 ATT NO L1 UNIXINIA N VALUA APISPERTIC 0102007 B10007 | Link A property to Structure If If<
 | ALLAR ALPSTRUK Stream ATT NORMAL ATT ALLAR ALPSTRUK Stream St | 44 AJ-969700 0912001 437 399 143 399 143 199 144 1990700 1992144 144 144 1990700 1991244 144 144 145 1990700 1991244 145 1991 1991244 144 145 199124 145 199124 145 199 |
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 | ■ Askan As/E000/FIDD 10:102007 837 360. 31.3 VIDE0153.5.4 H
RALSAR As/E000/FIDD 20:10207 66 350. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 360. 55.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 40.4 H
RALS

 | PALADA ALSPERETED 19102001 PALADA ALSPERETED 1910201

 | PALSAR ALSOPERTED 19102001 817 380 131 19020131A H
PALSAR ALSOPERTED 5110201 683 390 151 1902013A H
PALSAR ALSOPERTED 2110201 683 390 151 190001347 49
PALSAR ALSOPERTED 2110201 417 280 151 151 1900 151 151 1900
PALSAR ALSOPERTED 2110201 91 1900 151 151 151 151 151 151 151 151 151 1

 | PALSAR ALPSPECTRD SF002001 at7 380 31.1 YN020133.4 H PALSAR ALPSPECTRD S5002001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5102001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5110001 487 280 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 29.1 YN020137.4 H

 | PALSAR AFSRETTIO 59102007 487 380 541 790051314 H
PALSAR AFSRETTIO 59102007 487 380 540 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 7900 541 7900 541 7900
PALSAR AFSRETTIO 5510000 541 7900 550 550 550 550 550 550 550 550 550

 | Ala, MA Applicity Trip Structure 347 380 34.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y1000103.4 H Ala, MA Applicity Trip Structure 387.3 Y100103.4 H Ala, MA Applicity Trip Structure 387.4 H H

 | Valuar Audiorechipo 510 2001 437 386 31.1 10000333.4 41 Valuar Audiorechipo 510 2007 467 380 51.2 10005443.4 41 Valuar Audiorechipo 51.1 10005443.4 41 43.2 40056447.4 41 Valuar Audiorechipo 2511/2007 437 380 52.3 10001437.4 41 Valuar Audiorechipo 2511/2007 437 38.0 52.4 1001437.4 8 Valuar Audiorechipo 53.4 10011437.4 8 3014374.5 8
 | Valada Au-Spectripp 5/10/2001 437 396 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 110055440.4 41 Valada Au-Spectripp 2511-0007 437 396 32.1 10055447.4 41 Valada Au-Spectripp 2511-0007 437 306 32.4 3031427.4 81

 | JALAMA APPOPYID DY10200F ATT 300 311 1005033.8 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005487.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 300170.4 H PALSMA APPOPYID 101302F 100 2000 - 214 M010102F H
 | PALALA ASPERTINO VS10207 ALT No. L1 VS0201 ALT PALALA ASPERTINO VS10207 ATT NO. S11 VS0404A, H PALSA ASPERTINO VS11007 461 300 S131 VS0404A, H PALSA ASPERTINO VS11007 467 300 S131 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALALA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H H PALSA ASPERTINO VS1007 17 300 S141 VS0404A, H H VS0404A, H H H H H H H

 | Algala Algala Algala Algala Algala Vitro (Vitro) Bit (Vitro)
 | PALSAR ASSPECTOR 9103201 Bat 10.1 10020158.4 # PALSAR ASSPECTOR 9103201 BB. 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 514 000448.4 # PALSAR ASSPECTOR 2010200 483 400 344 4324914.6 # PALSAR ASSPECTOR 2010200 183 200 214 434914.6 # PALSAR ASSPECTOR 2010200 193 200 214 441914.0 # PALSAR ASSPECTOR 101 300 2100 214 441914.0 # | Paradiant Ansistement Sector and
Device and Device and Devi
 | PALSAR AFSREPTIO District BL Utblick H PALSAR AFSREPTIO District 480 500 5111 010000143.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 3201 400 5314 0100443.4 H PALSAR AFSREPTIO District 430 400 534 A014174.6 H PALSAR AFSREPTIO District 5200 234 A014174.6 H H PALSAR AFSREPTIO District 5200 201 201 H H PALSAR AFSREPTIO District 5200 201 211 H H PALSAR AFSREPTIO District 5200 201 211 H H PALSAR AFSREPTIO District 5200 214 4411116 H
 | PALSIA APISPERTIC O102007 ATT NO L1 UNIXINIA N VALUA APISPERTIC 0102007 B10007 | Link A property to Structure If If<
 | ALLAR ALPSTRUK Stream ATT NORMAL ATT ALLAR ALPSTRUK Stream St | 44 AJ-969700 0912001 437 399 143 399 143 199 144 1990700 1992144 144 144 1990700 1991244 144 144 145 1990700 1991244 145 1991 1991244 144 145 199124 145 199124 145 199 |
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 | ■ Askan As/E000/FIDD 10:102007 837 360. 31.3 VIDE0153.5.4 H
RALSAR As/E000/FIDD 20:10207 66 350. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 360. 55.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 40.4 H
RALS

 | PALADA ALSPERETED 19102001 PALADA ALSPERETED 1910201

 | PALSAR ALSOPERTED 19102001 817 380 131 19020131A H
PALSAR ALSOPERTED 5110201 683 390 151 1902013A H
PALSAR ALSOPERTED 2110201 683 390 151 190001347 49
PALSAR ALSOPERTED 2110201 417 280 151 151 1900 151 151 1900
PALSAR ALSOPERTED 2110201 91 1900 151 151 151 151 151 151 151 151 151 1

 | PALSAR ALPSPECTRD SF002001 at7 380 31.1 YN020133.4 H PALSAR ALPSPECTRD S5002001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5102001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5110001 487 280 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 29.1 YN02137.4 H

 | PALSAR AFSRETTIO 59102007 487 380 541 790051314 H
PALSAR AFSRETTIO 59102007 487 380 540 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 7900 541 7900 541 7900
PALSAR AFSRETTIO 5510000 541 7900 550 550 550 550 550 550 550 550 550

 | Ala, MA Applicity Trip Structure 347 380 34.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y1000103.4 H Ala, MA Applicity Trip Structure 387.3 Y100103.4 H Ala, MA Applicity Trip Structure 387.4 H H

 | Valuar Audiorechipo 510 2001 437 386 31.1 10000333.4 41 Valuar Audiorechipo 510 2007 467 380 51.2 10005443.4 41 Valuar Audiorechipo 51.1 10005443.4 41 43.2 40056447.4 41 Valuar Audiorechipo 2511/2007 437 380 52.3 10001437.4 41 Valuar Audiorechipo 2511/2007 437 38.0 52.4 1001437.4 8 Valuar Audiorechipo 53.4 10011437.4 8 3014374.5 8
 | Valada Au-Spectripp 5/10/2001 437 396 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 110055440.4 41 Valada Au-Spectripp 2511-0007 437 396 32.1 10055447.4 41 Valada Au-Spectripp 2511-0007 437 306 32.4 3031427.4 81

 | JALAMA APPOPYID DY10200F ATT 300 311 1005033.8 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005487.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 300170.4 H PALSMA APPOPYID 101302F 100 2000 - 214 M010102F H
 | PALALA ASPERTINO VS10207 ALT No. L1 VS0201 ALT PALALA ASPERTINO VS10207 ATT NO. S11 VS0404A, H PALSA ASPERTINO VS11007 461 300 S131 VS0404A, H PALSA ASPERTINO VS11007 467 300 S131 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALALA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H H PALSA ASPERTINO VS1007 17 300 S141 VS0404A, H H VS0404A, H H H H H H H

 | Algala Algala Algala Algala Algala Vitro (Vitro) Bit (Vitro)
 | PALSAR ASSPECTOR 9103201 Bat 10.1 10020158.4 # PALSAR ASSPECTOR 9103201 BB. 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 514 000448.4 # PALSAR ASSPECTOR 2010200 483 400 344 4324914.6 # PALSAR ASSPECTOR 2010200 183 200 214 434914.6 # PALSAR ASSPECTOR 2010200 193 200 214 441914.0 # PALSAR ASSPECTOR 101 300 2100 214 441914.0 # | Paradiant Ansistement Sector and
Device and Device and Devi
 | PALSAR AFSREPTIO District BL Utblick H PALSAR AFSREPTIO District 480 500 5111 010000143.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 3201 400 5314 0100443.4 H PALSAR AFSREPTIO District 430 400 534 A014174.6 H PALSAR AFSREPTIO District 5200 234 A014174.6 H H PALSAR AFSREPTIO District 5200 201 201 H H PALSAR AFSREPTIO District 5200 201 211 H H PALSAR AFSREPTIO District 5200 201 211 H H PALSAR AFSREPTIO District 5200 214 4411116 H
 | PALSIA APISPERTIC O102007 ATT NO L1 UNIXINIA N VALUA APISPERTIC 0102007 B10007 | Link A property to Structure If If<
 | ALLAR ALPSTRUK Stream ATT NORMAL ATT ALLAR ALPSTRUK Stream St | 44 AJ-969700 0912001 437 399 143 399 143 199 144 1990700 1992144 144 144 1990700 1991244 144 144 145 1990700 1991244 145 1991 1991244 144 145 199124 145 199124 145 199 |
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 | ■ Askan As/E000/FIDD 10:102007 837 360. 31.3 VIDE0153.5.4 H
RALSAR As/E000/FIDD 20:10207 66 350. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 360. 55.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 40.4 H
RALS

 | PALADA ALSPERETED 19102001 PALADA ALSPERETED 1910201

 | PALSAR ALSOPERTED 19102001 817 380 131 19020131A H
PALSAR ALSOPERTED 5110201 683 390 151 1902013A H
PALSAR ALSOPERTED 2110201 683 390 151 190001347 49
PALSAR ALSOPERTED 2110201 417 280 151 151 1900 151 151 1900
PALSAR ALSOPERTED 2110201 91 1900 151 151 151 151 151 151 151 151 151 1

 | PALSAR ALPSPECTRD SF002001 at7 380 31.1 YN020133.4 H PALSAR ALPSPECTRD S5002001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5102001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5110001 487 280 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 29.1 YN02137.4 H

 | PALSAR AFSRETTIO 59102007 487 380 541 790051314 H
PALSAR AFSRETTIO 59102007 487 380 540 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 7900 541 7900 541 7900
PALSAR AFSRETTIO 5510000 541 7900 550 550 550 550 550 550 550 550 550

 | Ala, MA Applicity Trip Structure 347 380 34.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y1000103.4 H Ala, MA Applicity Trip Structure 387.3 Y100103.4 H Ala, MA Applicity Trip Structure 387.4 H H

 | Valuar Audiorechipo 510 2001 437 386 31.1 10000333.4 41 Valuar Audiorechipo 510 2007 467 380 51.2 10005443.4 41 Valuar Audiorechipo 51.1 10005443.4 41 43.2 40056447.4 41 Valuar Audiorechipo 2511/2007 437 380 52.3 10001437.4 41 Valuar Audiorechipo 2511/2007 437 38.0 52.4 1001437.4 8 Valuar Audiorechipo 53.4 10011437.4 8 3014374.5 8
 | Valada Au-Spectripp 5/10/2001 437 396 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 110055440.4 41 Valada Au-Spectripp 2511-0007 437 396 32.1 10055447.4 41 Valada Au-Spectripp 2511-0007 437 306 32.4 3031427.4 81

 | JALAMA APPOPYID DY10200F ATT 300 311 1005033.8 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005487.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 300170.4 H PALSMA APPOPYID 101302F 100 2000 - 214 M010102F H
 | PALALA ASPERTINO VS10207 ALT No. L1 VS0201 ALT PALALA ASPERTINO VS10207 ATT NO. S11 VS0404A, H PALSA ASPERTINO VS11007 461 300 S131 VS0404A, H PALSA ASPERTINO VS11007 467 300 S131 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALALA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H H PALSA ASPERTINO VS1007 17 300 S141 VS0404A, H H VS0404A, H H H H H H H

 | Algala Algala Algala Algala Algala Vitro (Vitro) Bit (Vitro)
 | PALSAR ASSPECTOR 9103201 Bat 10.1 10020158.4 # PALSAR ASSPECTOR 9103201 BB. 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 514 000448.4 # PALSAR ASSPECTOR 2010200 483 400 344 4324914.6 # PALSAR ASSPECTOR 2010200 183 200 214 434914.6 # PALSAR ASSPECTOR 2010200 193 200 214 441914.0 # PALSAR ASSPECTOR 101 300 2100 214 441914.0 # | Paradiant Ansistement Sector and
Device and Device and Devi
 | PALSAR AFSREPTIO District BL Utblick H PALSAR AFSREPTIO District 480 500 5111 010000143.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 3201 400 5314 0100443.4 H PALSAR AFSREPTIO District 430 400 534 A014174.6 H PALSAR AFSREPTIO District 5200 234 A014174.6 H H PALSAR AFSREPTIO District 5200 201 201 H H PALSAR AFSREPTIO District 5200 201 211 H H PALSAR AFSREPTIO District 5200 201 211 H H PALSAR AFSREPTIO District 5200 214 4411116 H
 | PALSIA APISPERTIC O102007 ATT NO L1 UNIXINIA N VALUA APISPERTIC 0102007 B10007 | Link A property to Structure If If<
 | ALLAR ALPSTRUK Stream ATT NORMAL ATT ALLAR ALPSTRUK Stream St | 44 AJ-969700 0912001 437 399 143 399 143 199 144 1990700 1992144 144 144 1990700 1991244 144 144 145 1990700 1991244 145 1991 1991244 144 145 199124 145 199124 145 199 |
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 | ■ Askan As/E000/FIDD 10:102007 837 360. 31.3 VIDE0153.5.4 H
RALSAR As/E000/FIDD 20:10207 66 350. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 360. 55.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 40.4 H
RALS

 | PALADA ALSPERETED 19102001 PALADA ALSPERETED 1910201

 | PALSAR ALSOPERTED 19102001 817 380 131 19020131A H
PALSAR ALSOPERTED 5110201 683 390 151 1902013A H
PALSAR ALSOPERTED 2110201 683 390 151 190001347 49
PALSAR ALSOPERTED 2110201 417 280 151 151 1900 151 151 1900
PALSAR ALSOPERTED 2110201 91 1900 151 151 151 151 151 151 151 151 151 1

 | PALSAR ALPSPECTRD SF002001 at7 380 31.1 YN020133.4 H PALSAR ALPSPECTRD S5002001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5102001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5110001 487 280 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 29.1 YN02137.4 H

 | PALSAR AFSRETTIO 59102007 487 380 541 790051314 H
PALSAR AFSRETTIO 59102007 487 380 540 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 7900 541 7900 541 7900
PALSAR AFSRETTIO 5510000 541 7900 550 550 550 550 550 550 550 550 550

 | Ala, MA Applicity Trip Structure 347 380 34.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y1000103.4 H Ala, MA Applicity Trip Structure 387.3 Y100103.4 H Ala, MA Applicity Trip Structure 387.4 H H

 | Valuar Audiorechipo 510 2001 437 386 31.1 10000333.4 41 Valuar Audiorechipo 510 2007 467 380 51.2 10005443.4 41 Valuar Audiorechipo 51.1 10005443.4 41 43.2 40056447.4 41 Valuar Audiorechipo 2511/2007 437 380 52.3 10001437.4 41 Valuar Audiorechipo 2511/2007 437 38.0 52.4 1001437.4 8 Valuar Audiorechipo 53.4 10011437.4 8 3014374.5 8
 | Valada Au-Spectripp 5/10/2001 437 396 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 110055440.4 41 Valada Au-Spectripp 2511-0007 437 396 32.1 10055447.4 41 Valada Au-Spectripp 2511-0007 437 306 32.4 3031427.4 81

 | JALAMA APPOPYID DY10200F ATT 300 311 1005033.8 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005483.4 H PALSMA APPOPYID BY1020F 481 300 513 1005487.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 544 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 302477.4 H PALSMA APPOPYID BY1020F 481 300 - 344 300170.4 H PALSMA APPOPYID 101302F 100 2000 - 214 M010102F H
 | PALALA ASPERTINO VS10207 ALT No. L1 VS0201 ALT PALALA ASPERTINO VS10207 ATT NO. S11 VS0404A, H PALSA ASPERTINO VS11007 461 300 S131 VS0404A, H PALSA ASPERTINO VS11007 467 300 S131 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALALA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 47 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H PALSA ASPERTINO VS11007 17 300 S141 VS0404A, H H PALSA ASPERTINO VS1007 17 300 S141 VS0404A, H H VS0404A, H H H H H H H

 | Algala Algala Algala Algala Algala Vitro (Vitro) Bit (Vitro)
 | PALSAR ASSPECTOR 9103201 Bat 10.1 10020158.4 # PALSAR ASSPECTOR 9103201 BB. 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 5111 000448.4 # PALSAR ASSPECTOR 9110201 481 300 514 000448.4 # PALSAR ASSPECTOR 2010200 483 400 344 4324914.6 # PALSAR ASSPECTOR 2010200 183 200 214 434914.6 # PALSAR ASSPECTOR 2010200 193 200 214 441914.0 # PALSAR ASSPECTOR 101 300 2100 214 441914.0 # | Paradiant Ansistement Sector and
Device and Device and Devi
 | PALSAR AFSREPTIO District BL Utblick H PALSAR AFSREPTIO District 480 500 5111 010000143.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 480 500 5111 0100443.4 H PALSAR AFSREPTIO District 3201 400 5314 0100443.4 H PALSAR AFSREPTIO District 430 400 534 A014174.6 H PALSAR AFSREPTIO District 5200 234 A014174.6 H H PALSAR AFSREPTIO District 5200 201 201 H H PALSAR AFSREPTIO District 5200 201 211 H H PALSAR AFSREPTIO District 5200 201 211 H H PALSAR AFSREPTIO District 5200 214 4411116 H
 | PALSIA APISPERTIC O102007 ATT NO L1 UNIXINIA N VALUA APISPERTIC 0102007 B10007 | Link A property to Structure If If<
 | ALLAR ALPSTRUK Stream ATT NORMAL ATT ALLAR ALPSTRUK Stream St | 44 AJ-969700 0912001 437 399 143 399 143 199 144 1990700 1992144 144 144 1990700 1991244 144 144 145 1990700 1991244 145 1991 1991244 144 145 199124 145 199124 145 199 |
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 | ■ Askan As/E000/FIDD 10:102007 837 360. 31.3 VIDE0153.5.4 H
RALSAR As/E000/FIDD 20:10207 66 350. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE01454.4 H
Distor As/E000/FIDD 20:10207 47 360. 54.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 360. 55.3 VIDE0147.4 H
RALSAR As/E000/FIDD 10:10207 47 40.4 H
RALS

 | PALADA ALSPERETED 19102001 PALADA ALSPERETED 1910201

 | PALSAR ALSOPERTED 19102001 817 380 131 19020131A H
PALSAR ALSOPERTED 5110201 683 390 151 1902013A H
PALSAR ALSOPERTED 2110201 683 390 151 190001347 49
PALSAR ALSOPERTED 2110201 417 280 151 151 1900 151 151 1900
PALSAR ALSOPERTED 2110201 91 1900 151 151 151 151 151 151 151 151 151 1

 | PALSAR ALPSPECTRD SF002001 at7 380 31.1 YN020133.4 H PALSAR ALPSPECTRD S5002001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5102001 480 500 52.3 YN020133.4 H PALSAR ALPSPECTRD S5110001 487 280 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 53.3 YN020137.4 H PALSAR ALPSPECTRD S5110001 487 280 29.3 29.1 YN02137.4 H

 | PALSAR AFSRETTIO 59102007 487 380 541 790051314 H
PALSAR AFSRETTIO 59102007 487 380 540 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 790051434 H
PALSAR AFSRETTIO 2511007 487 380 541 7900 541 7900 541 7900
PALSAR AFSRETTIO 5510000 541 7900 550 550 550 550 550 550 550 550 550

 | Ala, MA Applicity Trip Structure 347 380 34.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y10001033.4 H Ala, MA Applicity Trip Structure 380 54.3 Y1000103.4 H Ala, MA Applicity Trip Structure 387.3 Y100103.4 H Ala, MA Applicity Trip Structure 387.4 H H

 | Valuar Audiorechipo 510 2001 437 386 31.1 10000333.4 41 Valuar Audiorechipo 510 2007 467 380 51.2 10005443.4 41 Valuar Audiorechipo 51.1 10005443.4 41 43.2 40056447.4 41 Valuar Audiorechipo 2511/2007 437 380 52.3 10001437.4 41 Valuar Audiorechipo 2511/2007 437 38.0 52.4 1001437.4 8 Valuar Audiorechipo 53.4 10011437.4 8 3014374.5 8
 | Valada Au-Spectripp 5/10/2001 437 396 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 11005533.4 41 Valada Au-Spectripp 50.1 1005533.4 41 306 31.1 110055440.4 41 Valada Au-Spectripp 2511-0007 437 396 32.1 10055447.4 41 Valada Au-Spectripp 2511-0007 437 306 32.4 3031427.4 81

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 | Nuclear Application Non-1007 Non-1007 </td <td>Pac.Link Appliedy F000 517 0007 480 300 343 00005444.4 + Link Appliedy F000 String F0007 481 300 643 00005444.4 + Link Appliedy F000 String F0007 481 300 643 00005444.4 + Pac.Link Appliedy F000 String F000 String F000 String F000 + 10005444.4 + Pac.Link Appliedy F000 String F000 String F000 String F000 +</td> <td>NALAA STREET STREET<!--</td--><td>NALSAL APPERIVED 511 (2017) 68 300 54.3 WEBLING A NALSAL APPERIVED 251 (1020) 440 300 64.3 WEBLING A NALSAL APPERIVED 251 (1020) 440 300 64.3 WEBLING A NALSAL APPERIVED 251 (1020) 100 200 201 100 NALSAL APPERIVED 251 (1020) 10 200 201 2010 10 NALSAL APPERIVED 251 (1020) 10 200 24.4 444 (1010) 10 NALSAL APPERIVED 410 (1020) 10 200 24.4 444 (1010) 10</td><td>NALAA ST0207 St0 St0 St0 MORELAA H VILDA AF3000-VID St1-1007 473 300 St0 St0 H <t< td=""><td>NALSA APPERIVED 511 2007 68 300 51 3 00004448 4 NALSA APPERIVED 251 1007 410 300 51 3 0000448 4 H NALSA APPERIVED 251 1007 410 300 51 3 0000448 4 H NALSA APPERIVED 251 1008 10 200 51 7 0000448 4 H NALSA APPERIVED 251 1008 10 300 27 1 0000480 4 H NALSA APPERIVED 251 1008 10 300 27 1 0000480 4 H</td><td>Nacket Application N10007 N1007 N1007</td></t<><td>LLAR A 2010/07/00 8/11/00/ 48 300 - 313 0006442 4
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5/5/8 A 2010/07/8 2011/02/07 1/10/00/07 - 2011/00/07/8 00/07/8 1/10/07/8 1/</td><td>MLAR AP999/P00 ST0007 R0 ST0 ST1 WORMLAR A MLAR AP999/P00 St10007 R0 St0 St1 WORMLAR A MLAR AP999/P00 St10007 R0 St0 St1 WORMLAR A MLAR AP995/W6 St10007 St0 St1 WORMLAR A WORMLAR A MLAR AP995/W64 St10007 St0 St1 WORMLAR A WORMLAR</td><td>A4 AL-9999/P20 917207 98 300 51 98 98 98 98 98 98 98 98 98 98 98 98 98</td></td></td>
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 | EPALSAR ALPSSPVFRD 25110007 487 380 - 54.3 HORTABTA H
EPALSAR ALPSSS/VB1 31102008 435 400 - 24.6 HORTABTA B
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 | PALSAR ALPSPPIPTED 26110207 487 280 - 54.3 HORTAITA H
PALSAR ALPSPSIN 151102001 483 100 - 24.6 HORTAITA H
PALSAR ALPSPSIN 151 251102001 433 100 - 24.7 HORTAITA H
PALSAR ALPSPSIN 151 251102001 H

 | PALSAR A PSKPVFRD 25110207 487 380- 543 W0TM17A H
PALSAR A PSKSVRH 31102001 433 400 - 34 6 3001437(A B
PALSAR A PSKSVRH 321102001 433 400 - 34 6 3001437(A B

 | PALSAR ALPSOPH/RD 25110007 487 380 - 54.3 W007487A H
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PALSAR ALPSOS V01 251102001 43 400 - 24.7 W00756D H

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ALSAR ALPSOS WEI 31102001 483 400 - 346 1003143/1A B
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 | PALSAR ALPSRPIFED 26110007 487 380 54.3- 100071487A H
PALSAR ALPSRS6.VIB1 31102008 483 400 24.4 3028143/HA B
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 | Dis_Sam AppSportED Dis11000T atT 280 58.3 monthsham AppSportED Dis11000T atT 280 38.3 Monthsham AppSportED Dis11000T atT 280 38.3 Monthsham B AppSportED Dis11000T atT 200 38.4 AppSportED Dis1000T B Dis200 200 200 200 200 AppSportED Dis200 Dis200 200 200 200 200 200 Dis200 200 <td>Disclord Applicity/RD Dist/10007 417 280- 16.3 MODTMATA H No.544 Applicity/Appli/Applicity/Applicity/Appli/Applicity/Applicity/Appl</td> <td>Alguna AppSport Bit <th< td=""><td>PALSRA JASSPERTRO 25110007 417 200 241 200 418 200 241 200 417 4 19
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ALFSGENARD 31100001 433 400- 24.4 X30347A B
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ALFSGENARD 31100001 433 400- 24.4 X30347A B
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 | PALSAR ALPSSPURID 25110007 487 380 - 54.3 1000TMI7A H PALSAR ALPSSS/VB1 11102000 43.5 400 - 34.6 300143/1A B PALSAR ALPSSS/VB1 11102000 43.5 400 - 34.6 300143/1A B PALSAR ALPSSS/VB1 26.1102000 120.0 - 24.7 3003143/1A B

 | PALSAR ALPSPPIPTED 26110207 487 280 - 54.3 HORTAITA H
PALSAR ALPSPSIN 151102001 483 100 - 24.6 HORTAITA H
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 | PALSAR A PSKPVFRD 25110207 487 380- 543 W0TM17A H
PALSAR A PSKSVRH 31102001 433 400 - 34 6 3001437(A B
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 | PALSAR ALPSOPH/RD 25110007 487 380 - 54.3 W007487A H
PALSAR ALPSOS V01 31102001 433 400 - 34.6 X001437FA B
PALSAR ALPSOS V01 251102001 43 400 - 24.7 W00756D H

 | PALSAR ALPSOPYFIED 25110007 487 380 - 543 WIRTHATA H
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 | PALSAR ALPSRPIFED 26110007 487 380 54.3- 100071487A H
PALSAR ALPSRS6.VIB1 31102008 483 400 24.4 3028143/HA B
 | ALSAR ALPSRPIFED 26/11/2007 487 380 14.3. W067487A H
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 | Dis_Sam AppSportED Dis11000T atT 280 58.3 monthsham AppSportED Dis11000T atT 280 38.3 Monthsham AppSportED Dis11000T atT 280 38.3 Monthsham B AppSportED Dis11000T atT 200 38.4 AppSportED Dis1000T B Dis200 200 200 200 200 AppSportED Dis200 Dis200 200 200 200 200 200 Dis200 200 <td>Disclord Applicity/RD Dist/10007 417 280- 16.3 MODTMATA H No.544 Applicity/Appli/Applicity/Applicity/Appli/Applicity/Applicity/Appl</td> <td>Alguna AppSport Bit <th< td=""><td>PALSRA JASSPERTRO 25110007 417 200 241 200 418 200 241 200 417 4 19
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ALFSGENARD 31100001 433 400- 24.4 X30347A B
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ALFSGENARD 31100001 433 400- 24.4 X30347A B
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ALFSGENARD 31100001 433 400- 24.4 X30347A B
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 | EPALSAR ALPSSPVFRD 25110007 487 380 - 54.3 HORTABTA H
EPALSAR ALPSSS/VB1 31102008 435 400 - 24.6 HORTABTA B
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 | PALSAR ALPSSPURID 25110007 487 380 - 54.3 1000TMI7A H PALSAR ALPSSS/VB1 11102000 43.5 400 - 34.6 300143/1A B PALSAR ALPSSS/VB1 11102000 43.5 400 - 34.6 300143/1A B PALSAR ALPSSS/VB1 26.1102000 120.0 - 24.7 3003143/1A B

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 | PALSAR A PSKPVFRD 25110207 487 380- 543 W0TM17A H
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 | PALSAR ALPSSPYFED 25110007 487 380 - 543 WHICHATA H
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 | PALSAR ALPSRPIFED 26110007 487 380 54.3- 100071487A H
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 | Dis_Sam AppSportED Dis11000T atT 280 58.3 monthsham AppSportED Dis11000T atT 280 38.3 Monthsham AppSportED Dis11000T atT 280 38.3 Monthsham B AppSportED Dis11000T atT 200 38.4 AppSportED Dis1000T B Dis200 200 200 200 200 AppSportED Dis200 Dis200 200 200 200 200 200 Dis200 200 <td>Disclord Applicity/RD Dist/10007 417 280- 16.3 MODTMATA H No.544 Applicity/Appli/Applicity/Applicity/Appli/Applicity/Applicity/Appl</td> <td>Algund A. pPSp0:rPD 2611007 417 290 52.3 YMD*NaTA H Algund A. AlphBox WeB 2110008 43 40 34.4 40.4 34.4 40.4 34.4 40.4 34.4 40.4 34.4 40.4 34.4 40.4 34.4 40.4 34.4 40.4 34.4</td> <td>PALSRA JASSPERTRO 25110007 417 200 241 200 418 200 241 200 417 4 19
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ALFSGENARD 31100001 433 400- 24.4 X30347A B
AR ALFSGENARD 2511008 433 400- 24.1 X30347A B
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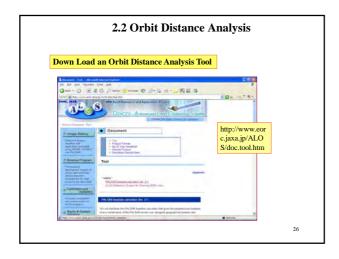
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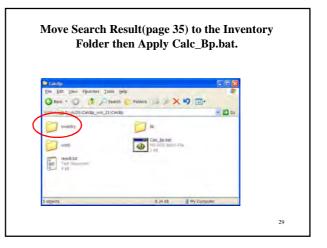
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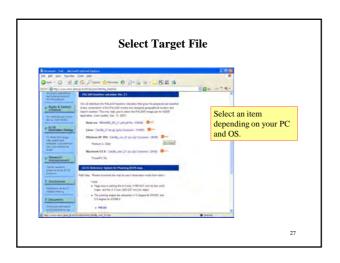
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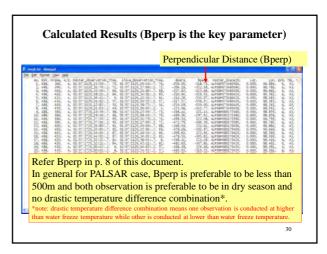
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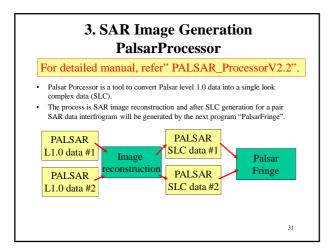


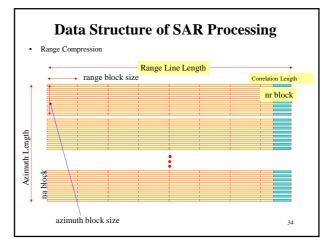












3.1 Image Reconstruction

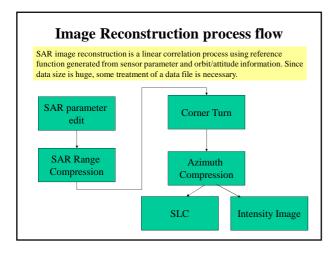
- · SAR image is almost same with hologram
- . Image reconstruction either in Single Look Complex (SLC) form or amplitude form is necessary.
- To process SAR interfrometry, original SAR signal must be processed to Single Look Complex (SLC) data
- This process exactly trace SAR signal compression in complex number space
- Amplitude conversion from SLC is usual SAR intensity image. In the usual intensity image, phase information (complex number is discarded.
- SAR image reconstruction is almost linear operation which means reversible operation.
- From raw data to single look complex (SLC) process is exactly a linear operation where a Fast Fourier Transform(FFT) is preferred to accelerate the processing speed drastically.

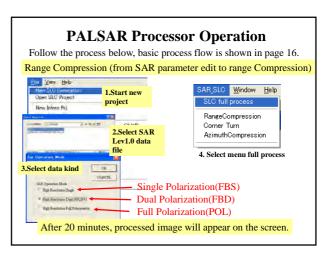
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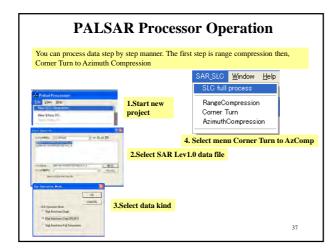
SAR image Reconstruction This is the process described in the previous page.

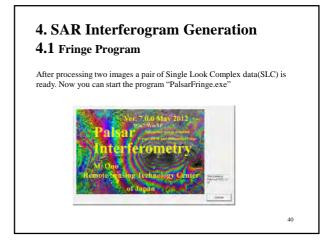
- A new program "PALSAR Processor" is prepared to •
- conduct the whole process.

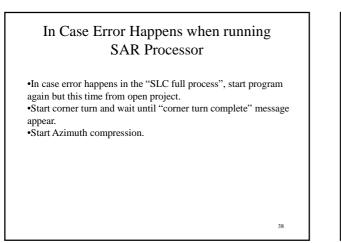


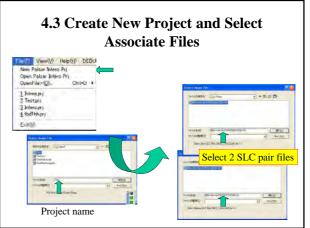


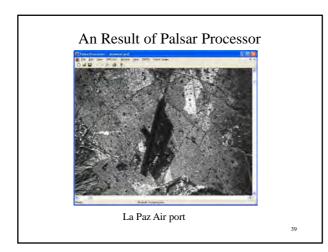


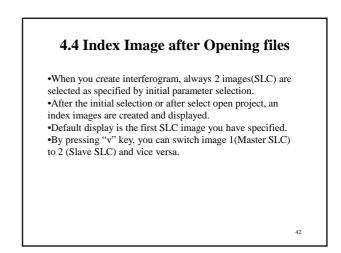


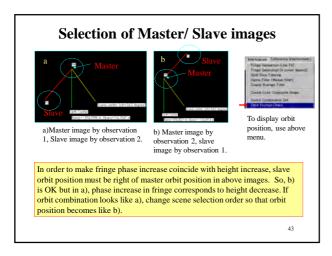






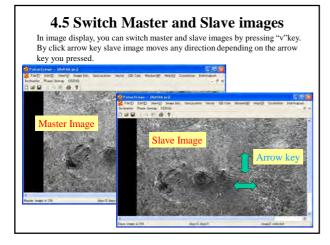


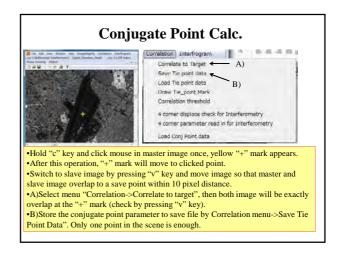


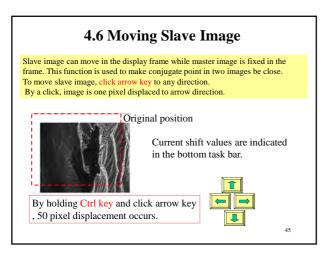


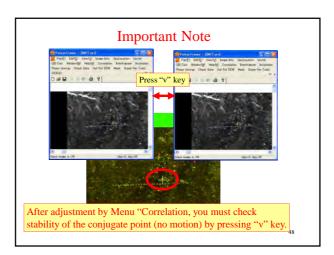
Revised Key Stroke

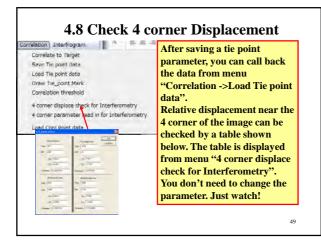
- In the current version new switch function is added.
- "v" key :Switch master and slave images.
- "f" key :Switch master image to fringe.
- "s" key :master image to simulated image
- Shift + "s" key: Fringe to simulated fringe
- Last 2 function will work after switching to differential mode.

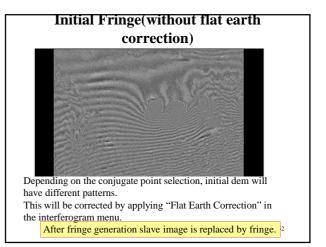


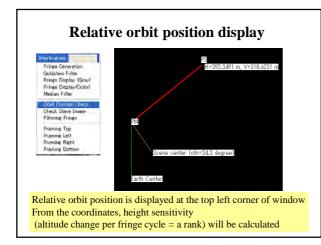






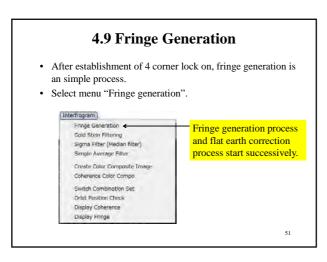


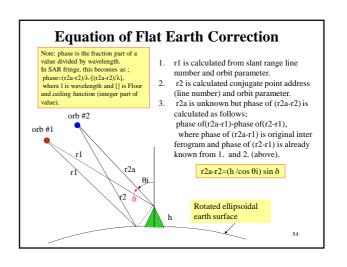


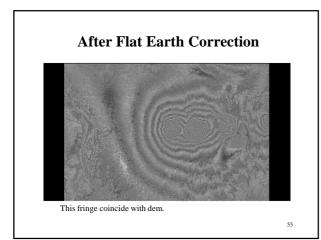


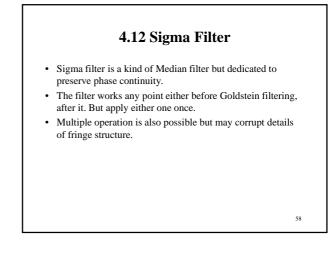
Flat Earth Correction

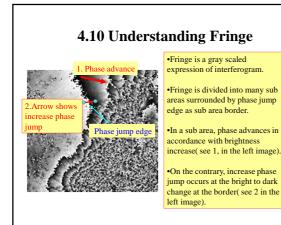
- Due to the fringe inclination, even a seashore or lake shore looks not flat.
- But using the natural object, we can correct water shoreline inclination.
- Put 3 point along a water land boundary to make a triangle which must be a horizontal plane.
- In the ALOS system orbit information is so accurate that we can correct flat erath relying on the information.
- By the menu selection as shown in the right menu, the image inclination will be corrected using orbit information.
- Exact equation of flat earth correction is shown in the next page.
- In the current version "Flat Earth Correction" is done associated with "Fringe generation". You don't need to awared of this process.

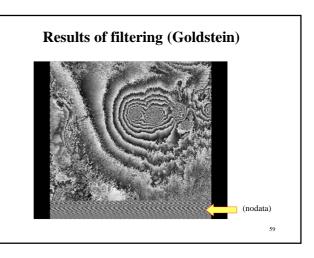


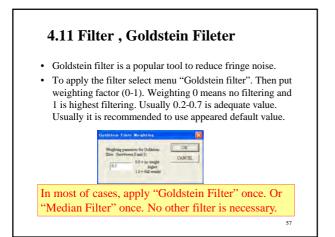


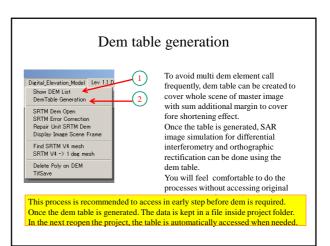


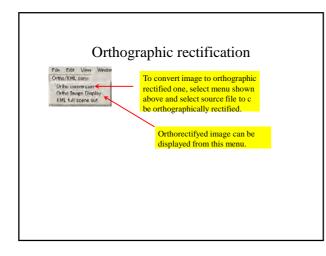


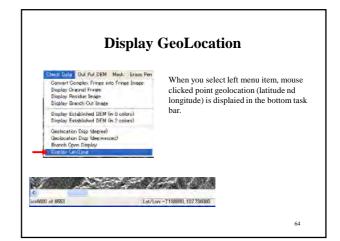


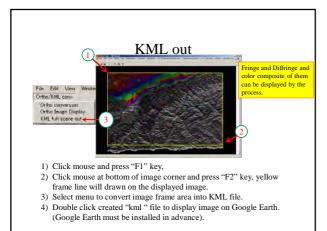


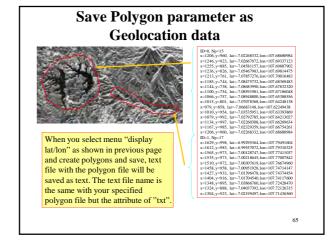






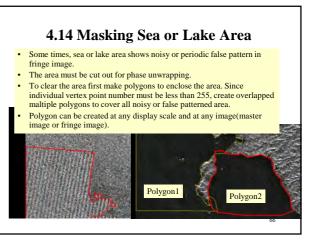


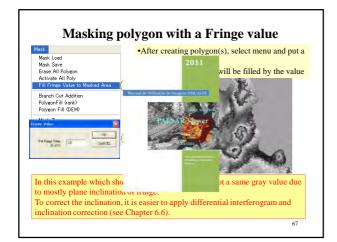


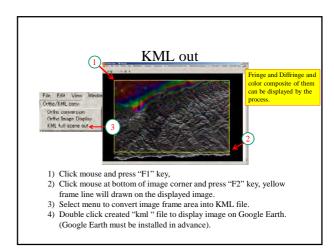


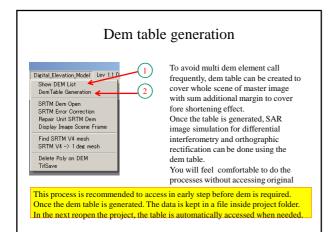


• All the process parameter is kept as before and move on to next step without conducting interferogram generation again.



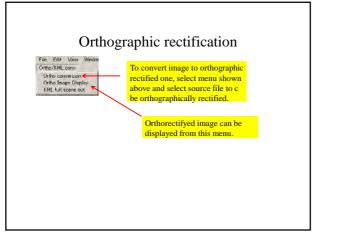


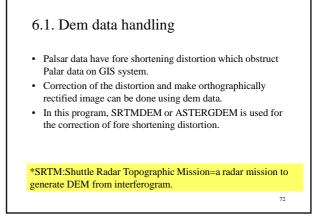




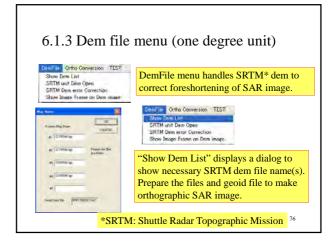


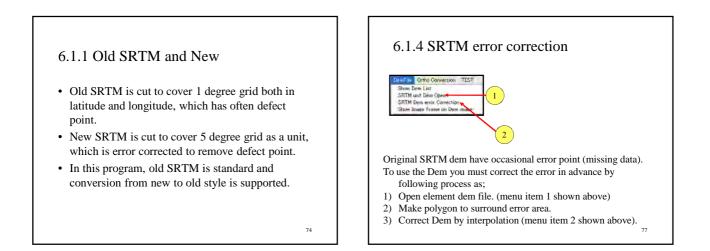
- Differential interferometry is a good tool to monitor precise displacement or changes happened in between the two observations for inteferogram genaration.
- It can be used to monitor small land deformation in an earthquake, industrial or city area land subsidence due to overwelling in the area, monitoring large scale land slide, or monitoring volcanic activities.
- To achieve differential interferometry, we need a reference Digital elevation model and currently Shuttle Radar Topgraphic Mission (SRTM) provides us a good quality DEM.
- In the current program the DEM is used. Most of the area except USA are covred by 3 arcsec spacing DEM which is almost enough to be used as the reference DEM.

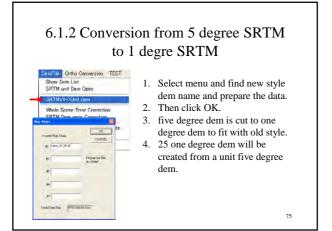


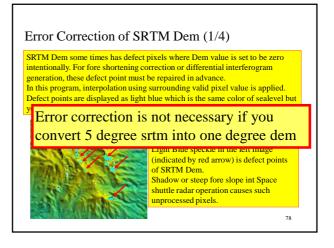


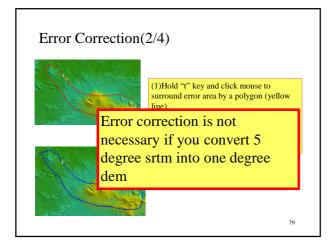
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	08/21/2005 12:00/# # 15.546 that are these.off
	ftp directory=ftp://e0srp01u.ecs.nasa.gov/srtm/srtm

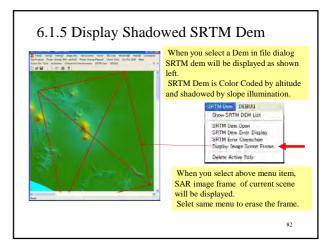


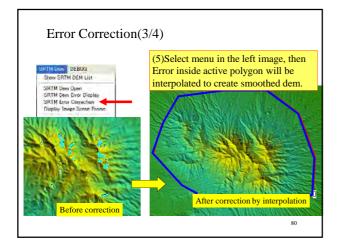


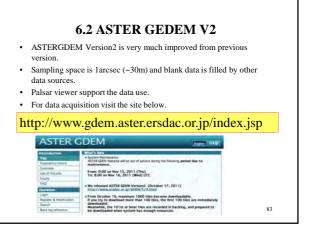


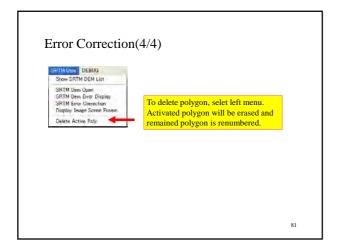


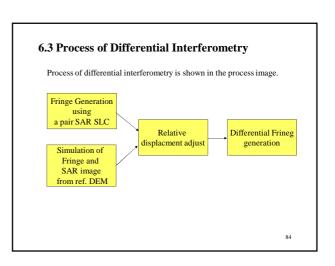


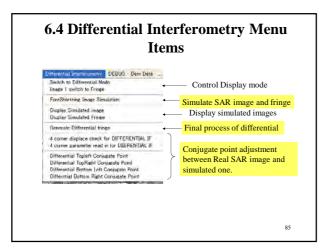


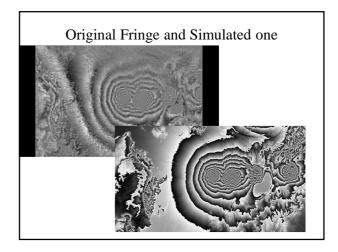


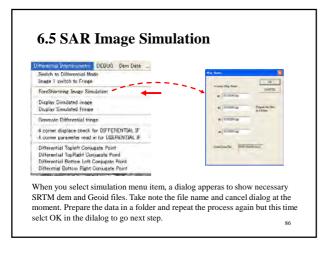


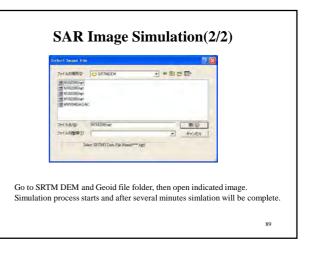


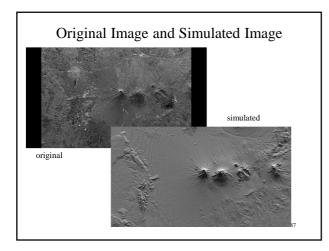


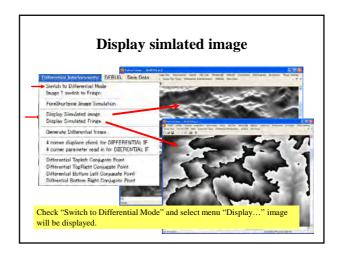


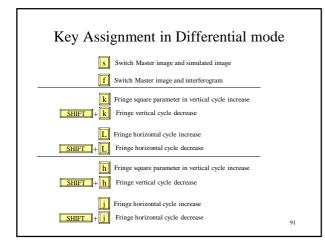


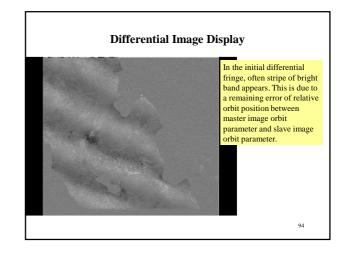


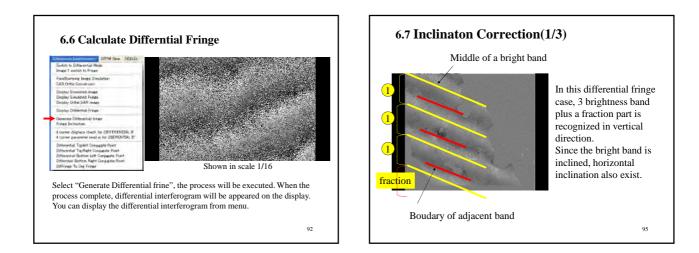


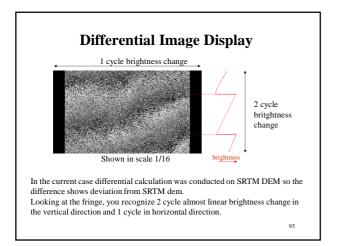


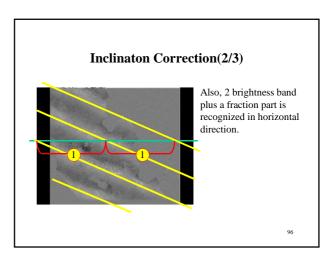












Correction of inclination using GUI

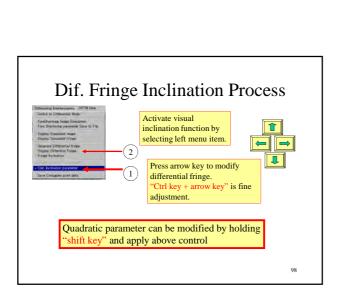


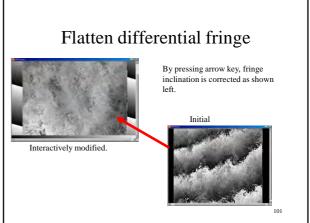
Usually initial differential fringe looks like what is shown left. In a large area average scene must be almost flat. The initial view has apparent inclinations which must be corrected.

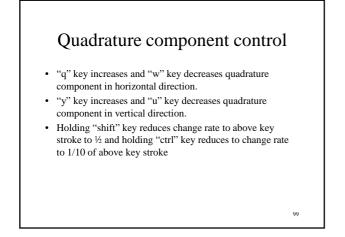
In the current program this inclination is corrected by flat plane inclination model.

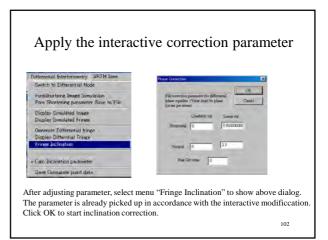
Interactive operation of this process is shown in the next pages.

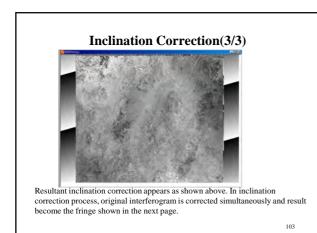
97



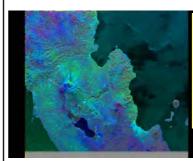




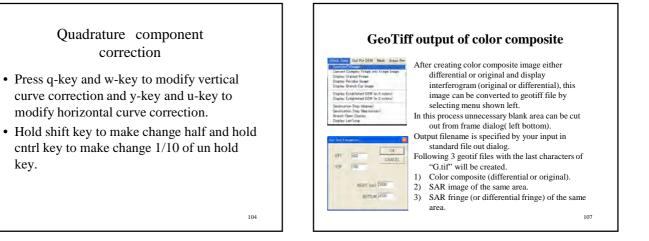


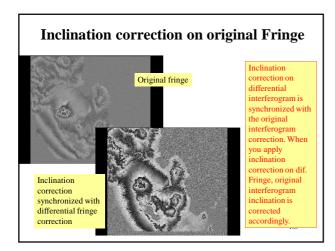


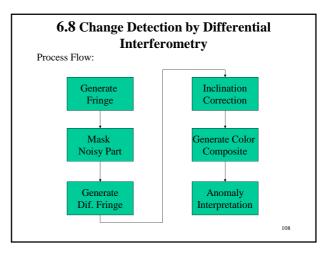
Color Composite of Dif. Fringe

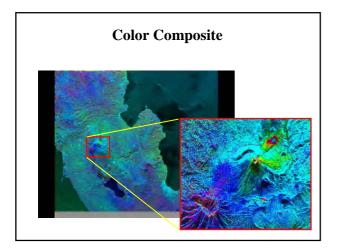


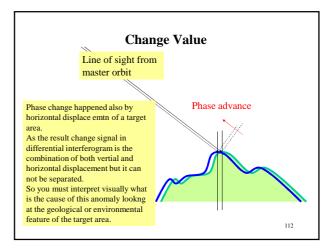
In a corrected differential fringe no bright band is recognized. When you generate a color composite, different color means some changes between two observation date of master and slave image plus a change between reference dem generation and master image generation.

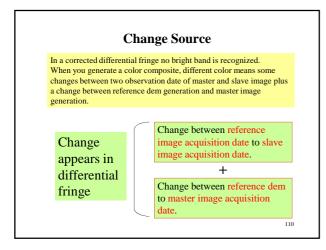


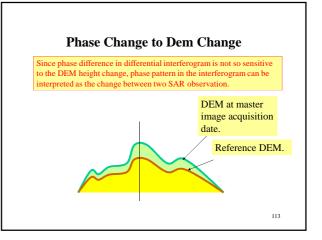


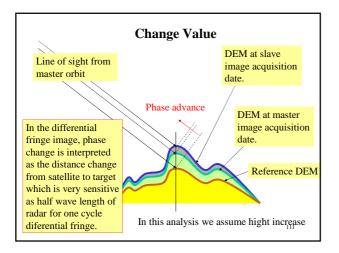


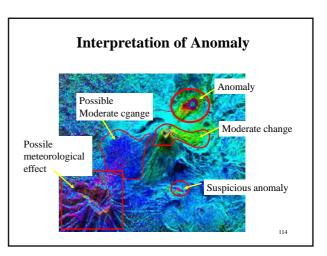


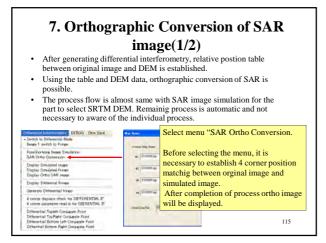


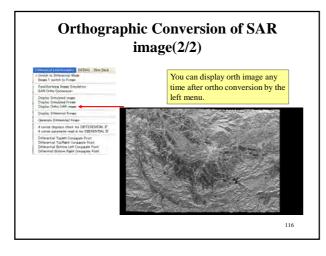


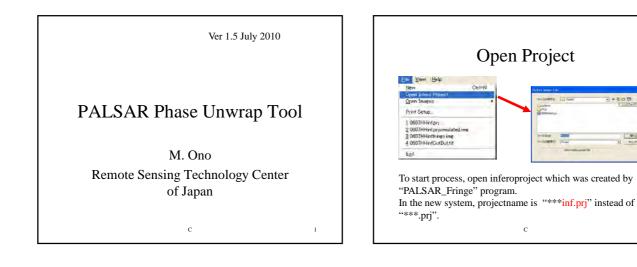


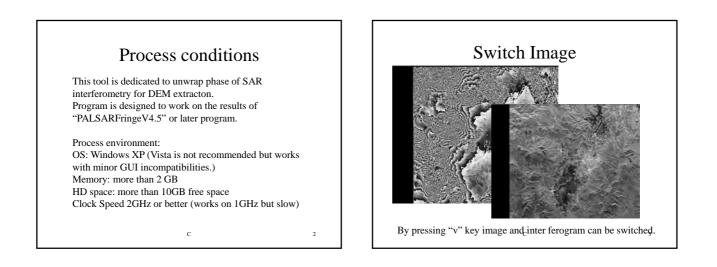


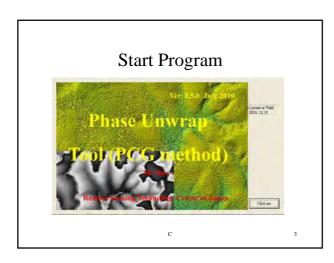


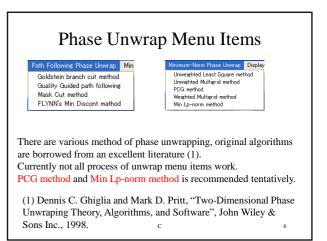


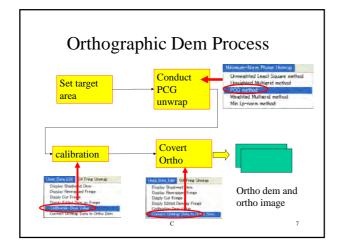


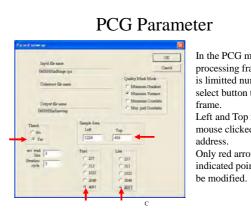








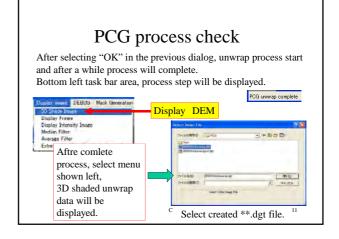


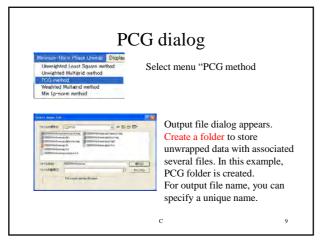


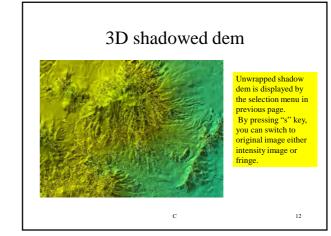
In the PCG method, processing frame size is limitted number, select button to set Left and Top is a mouse clicked point Only red arrow indicated point may

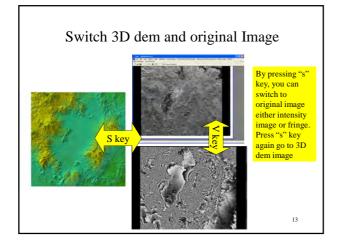
10

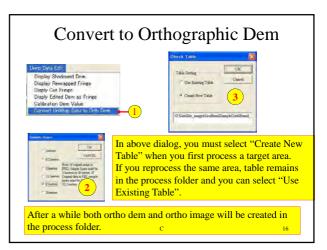
To Start PCG method Click mouse at topleft and bottom right of the valid fringe area by holding "c" key. Target area of unwrap is marked by yellow line square. Holding "c" key and click mouse again, frame will disappear. С

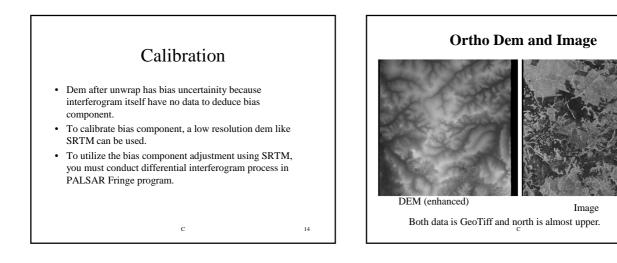


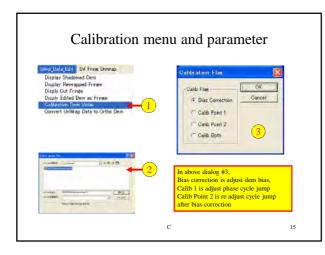


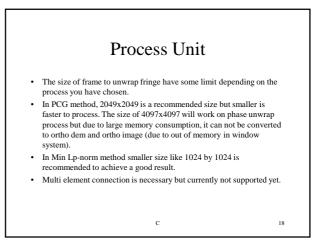


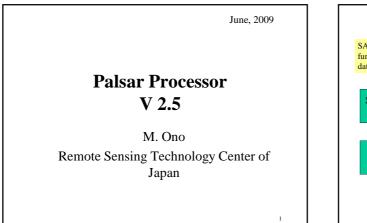


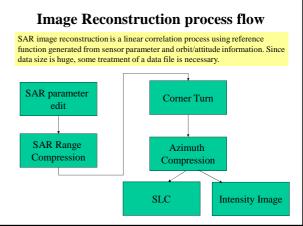


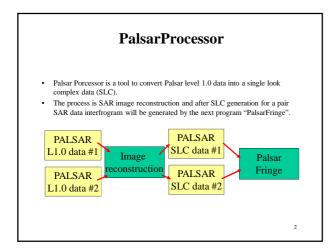












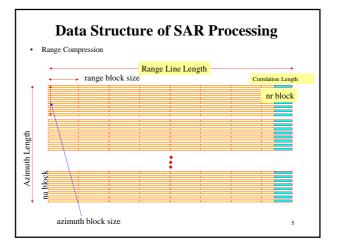
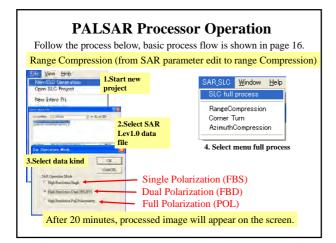
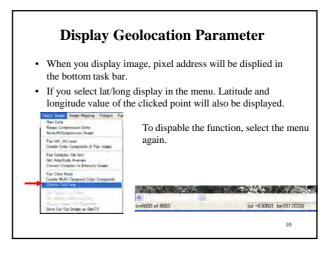


Image Reconstruction

- · SAR image is almost same with hologram
- Image reconstruction either in Single Look Complex (SLC) form or amplitude form is necessary.
- To process SAR interfrometry, original SAR signal must be processed to Single Look Complex (SLC) data.
- This process exactly trace SAR signal compression in complex number space.
- Amplitude conversion from SLC is usual SAR intensity image. In the usual intensity image, phase information (complex number is discarded.
- SAR image reconstruction is almost linear operation which means reversible operation.
- From raw data to single look complex (SLC) process is exactly a linear operation where a Fast Fourier Transform(FFT) is preferred to accelerate the processing speed drastically.



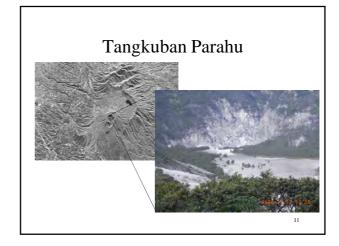


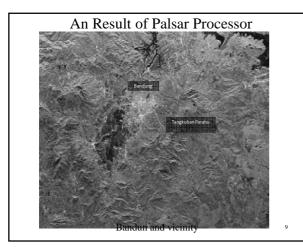


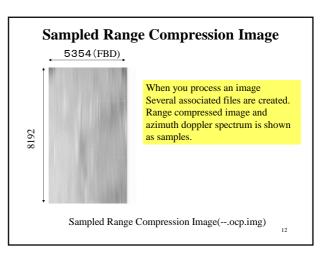
In Case Error Happens when running SAR Processor

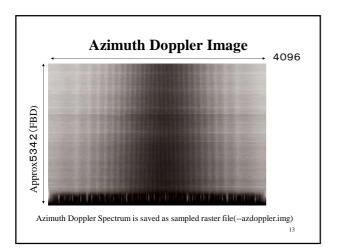
In case error happens in the "SLC full process", start program again but this time from open project.
Start corner turn and wait until "corner turn complete" message appear.

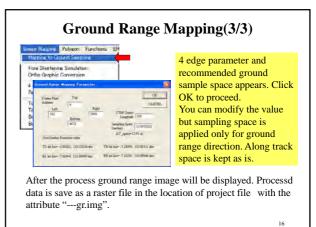
•Start Azimuth compression.











Ground Range Mapping(1/3)

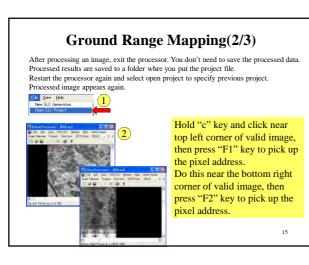
- Original image after reconstruction is slantrange image which has equal space In slant range.
- On mapdislpay, the image must be mapped with equal space on ground, which is not equal space on slant range.
- Slant range equal space to ground range equal space can be converted using orbit parameter, SAR parameter (off nadir angle and slant range), and local earth radius.
- Follow the process in the next pages.

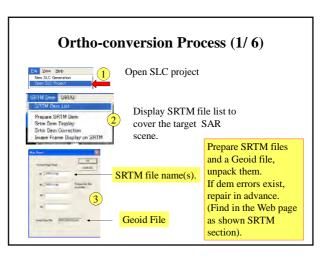
Orthographic Conversion SAR image is originally mapped using slant image, which causes higher altitude point mapping error called "fore shortening". To correct fore shortening a digital elevation

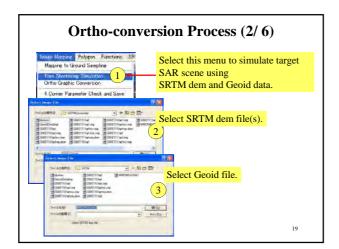
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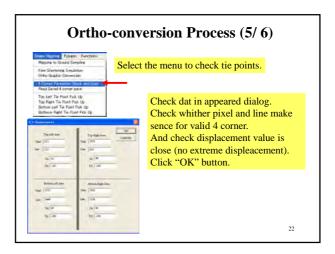
14

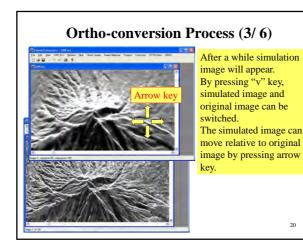
- model is necessary.In this program, SRTM dem which covers almost
- In this program, SRTM dem which covers almost plus or minus 60 degrees latitude area.

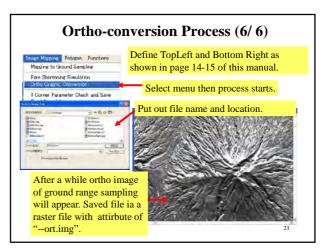


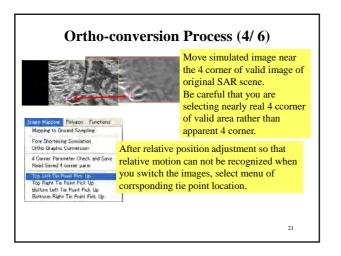


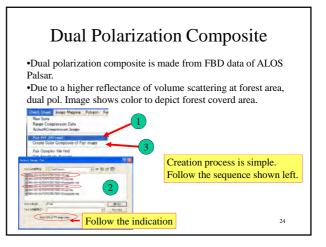


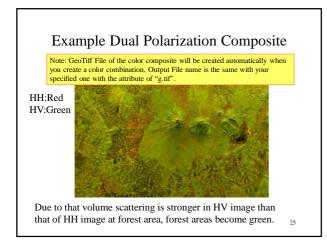


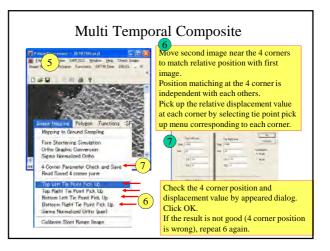


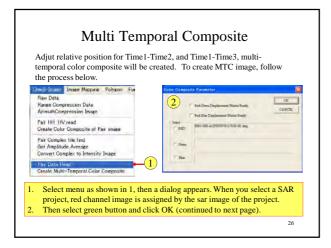


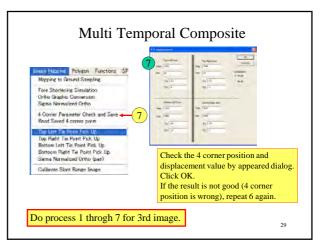


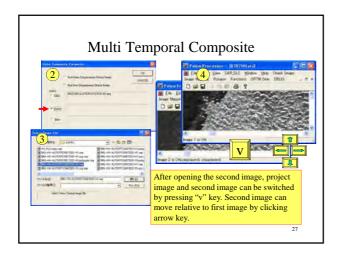


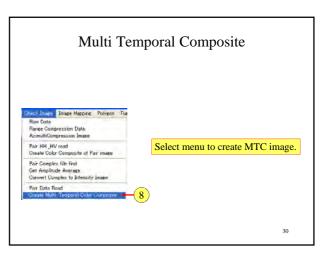


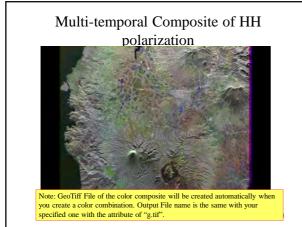


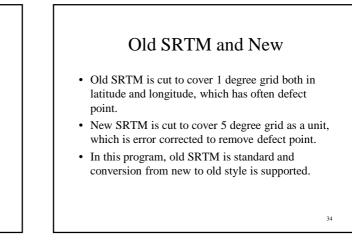


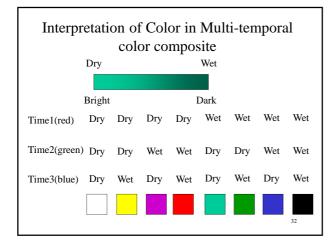


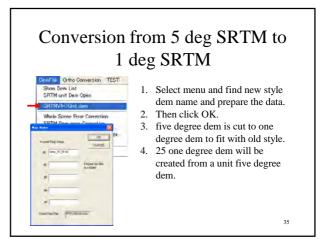


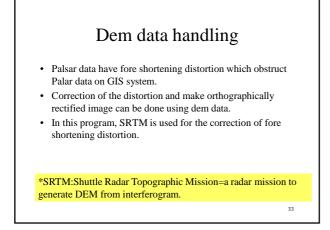


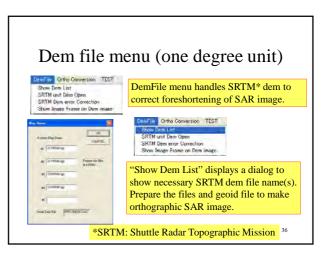


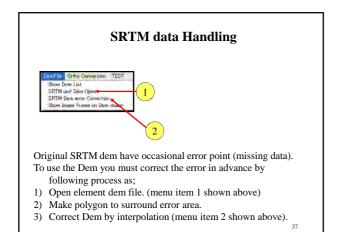


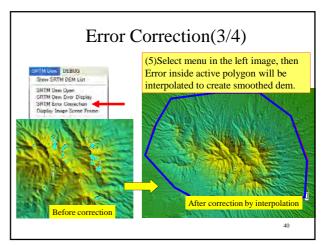


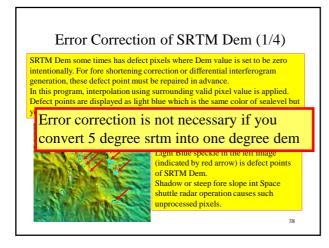


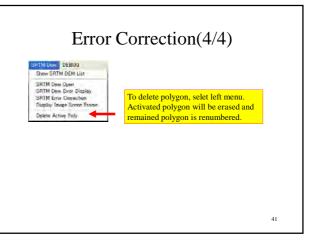


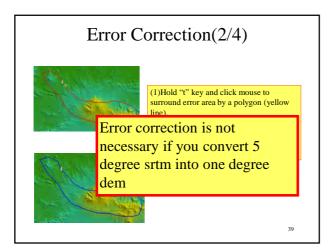


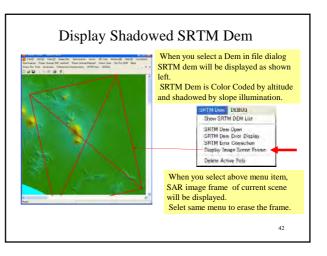


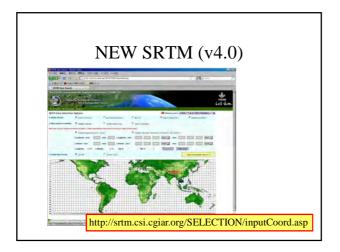


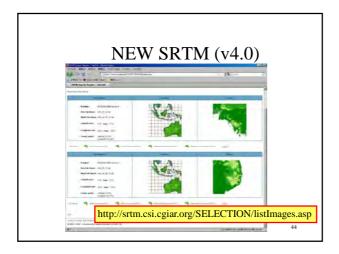


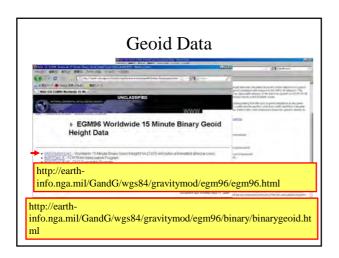










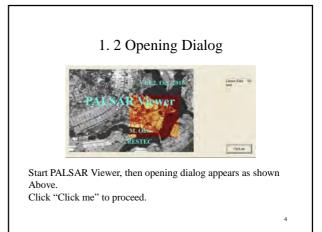


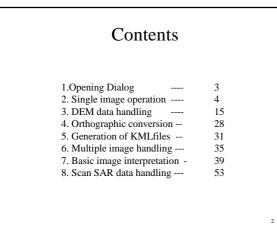
Rev. 2.0, 2010.10.18

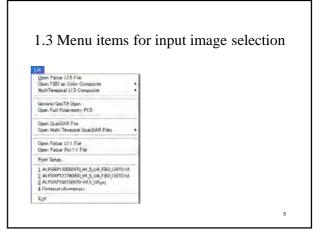
PALSAR Viewer user's manual

October 2010

M. Ono, Remote Sensing technology Center of Japan







1. General Information 1.1 Functions of the Program

- Open Individual ALOS PALSAR images a)
- b)
- Create FBD color composite Create L1.5 data multi temporal composite for change detection c)
- Create full polarimetry color composite d)
- Open PALSAR Scam mode strip data and cut to frames and save as e) Geotif file
- f) Create multi temporal Scan mode data and cut to frames and save as Geotif file
- Change scale of opened image, display mouse clicked point geo location and pixel value with RDAR reflectance coefficient Change intensity of opened image g)
- h)
- Create polygon and cut out as KML file i)
- Measure statistics for polygon area Convert Image into orthographic projection and Save as Geotif file j) k)
- 1) Convert Image into orthographic projection and Save as Geotif file

2. Openning PALSAR Level 1.5 Images

2.1 Single PLASAR Image Opening

•From "Palsar 1.5 file Open" menu, you can open Palsar data as gray scaled image.

•Image intensity is converted so that average intensity value of original 2 byte image pixel is converted to digital number of 32 in one byte gray scale image value. This conversion is linear and overflow value is converted to max value of 1 byte image (255).

•When you click a pixel in displayed image frame, original 2 byte integer value of the pixel and calibrated RADAR reflection coefficient is displayed at bottom status bar area.

2.4 Open Dual temporal FBD color images

- Using Geotiff of FBD color composite, you can open 2 images to cover the same area which must observed in different date (day difference is multiple of 46 days recursion cycle).
- Relative position displacement is automatically adjusted so that each corresponding pixels are overlapped within the accuracy of half pixel width.
- Eah image can be displayed by quick switching respond to a key stroke.
- Change detection by visual monitoring is possible by the operation.

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2.2 Open FBD as Color Composite

- PALSAR FBD is a dual polarized image obtained from PALSAR FBD observation mode.
- FBD observation is to transmit RADAR pulse with horizontally polarized wave and receive both horizontal (co polarization), and vertical (cross polarization)polarization waves.
- Cross polarization value are affected by vegetation land cover, which often shows green appearance in the color composite image.
- Display amplitude is adjusted so that average of each channel is adjusted to value 32 of byte image pixel value.

2.5 Open General Geotif PALASAR images

- PALSAR images provided as Geotiff format can be opened from "general Geotiff image open" menu.
- Image File name assumes to follow original CEOS format naming provided by JAXA but allowed to eliminate initial image key "IMG-xx-" where "xx" is "HH" or "HV" or "VH" or "VV".
- Geotiff output porduced in the program (PALSARViewer) is also opened by the process.
- If the file name follows the rule, observation date is correctly interpreted in the program.

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2.3 Open PALSAR multi-temporal Color composite

- From "" menu, you can open 2 or 3 different date PALSAR images as color composite.
- Relative position is automatically adjusted using location table calculated from associated leader file of each image.
- Intensity adjustment is the same manner with single image opening.
- Element image is assigned to R G and B following the opening order.

2.6 Open Full Polarimetry PALSAR image

- Full polarimetry Level 1.5 image of PALSAR can be opened as color composite.
- Althogh full polarimetry consists of 4 channels (HH,HV,VH,VV) only 3 among the data can be assigned to 3 channel RGB display.
- Since HV and VH is almost same value in principle, it is recommended to assign HH,HV and VV to RGB.

3. Scan SAR Strip Image Handling

4. Working on Opened Image

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3.1 Open Single strip and cut to frame scenes

- Scan SAR strip image is provided to specific organizations which exchange agreement on the data provision with JAXA.
- In Brazil, IBAMA is an organization to be assigned as receptor of the image.
- Currently IBAMA CSR is using to detect new deforestation using multi-temporal change detection capability of PALSAR.
- To open the image, select "Scan SAR image open" menu.The displayed image is an reduced size index image full
- scale image can be cutout as equal interval frame image of geotiff format.

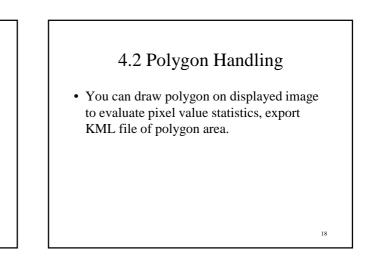
4.1 Change image scale and Intensity

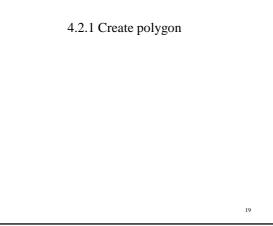
- Full scale to reduced scale can be switched from View menu-> image scale.
- Currently magnification is not supported.
- Image intensity can be adjusted from View menu->Brightness->change.
- By the slection, displayed image scale is reduced to 1/8 index image. Press "b" to make image bright, press "n" to dark. This operation is applied just for dieplyed index image.
- To apply the result to original image, selectView menu->Brightness->apply change to original image.

3.2 Color composite of Scan SAR images

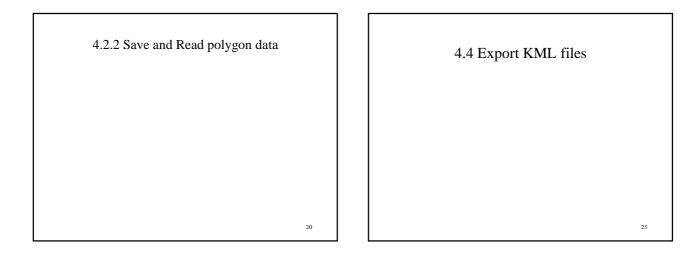
- 2 or 3 different date strips covering a same area can be opend from "Multi temporal Scan SAR" menu.
- Relative position is adjusted within 1 pixel accuracy.
- The displayed image is an reduced size index image full scale image can be cutout as equal interval frame image of geotiff format.
- Change detection can be recognized as color difference of the image from no change points.

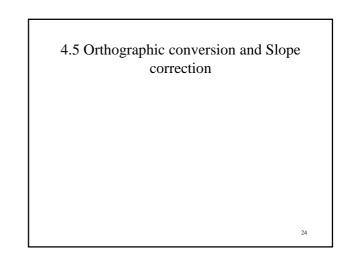
15

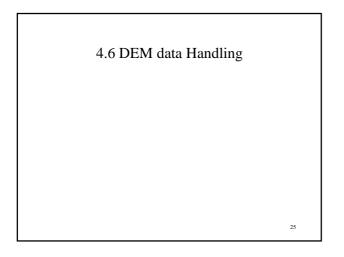


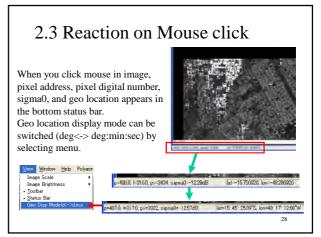


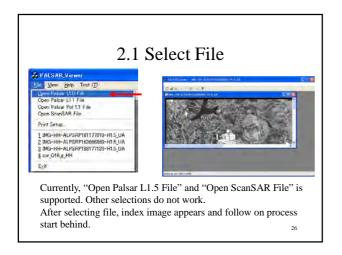
4.3 Image Statistics evaluation

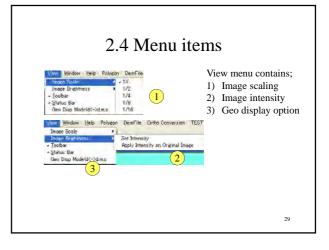


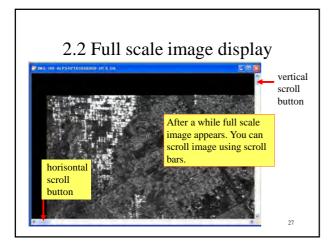


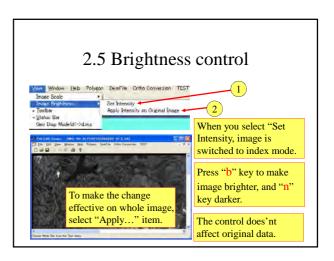


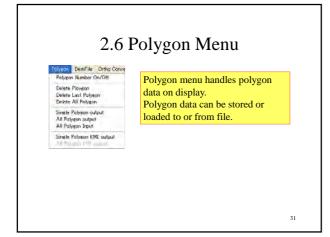


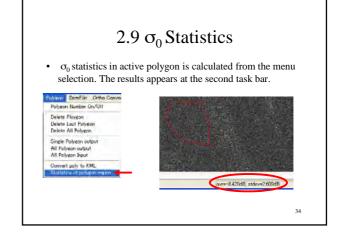








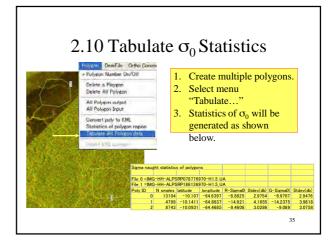


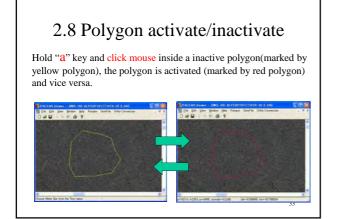


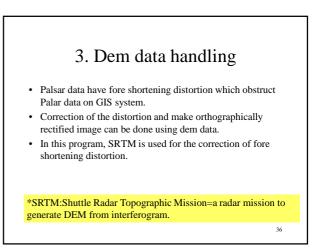
2.7 Drawing polygons on display Hold "t" key and click mouse in the image, polygon edge will be created. To close a polygon, press "r" key. After pressing "r" key, you can create next polygon in the same way.











3.1 Old SRTM and New

- Old SRTM is cut to cover 1 degree grid both in latitude and longitude, which has often defect point.
- New SRTM is cut to cover 5 degree grid as a unit, which is error corrected to remove defect point.
- In this program, old SRTM is standard and conversion from new to old style is supported.

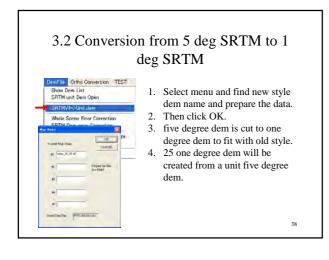
37

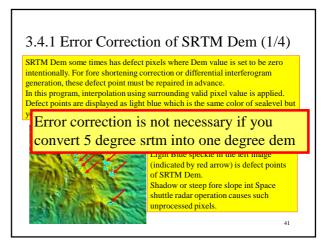
3.4 SRTM data Handling

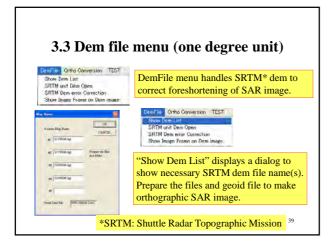


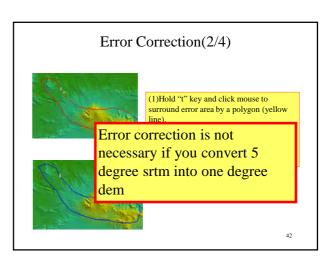
Original SRTM dem have occasional error point (missing data). To use the Dem you must correct the error in advance by following process as;

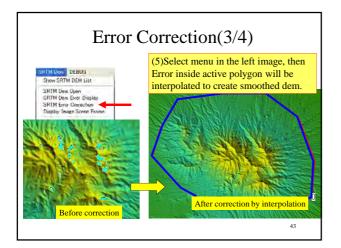
- Open element dem file. (menu item 1 shown above)
- 2) Make polygon to surround error area.
- 3) Correct Dem by interpolation (menu item 2 shown above).

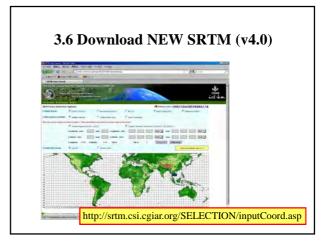


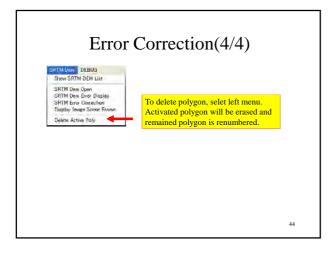


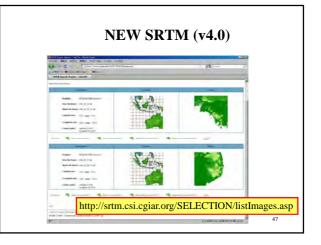


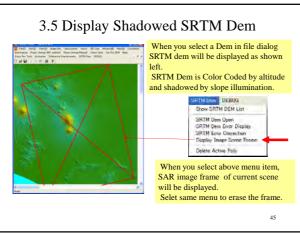


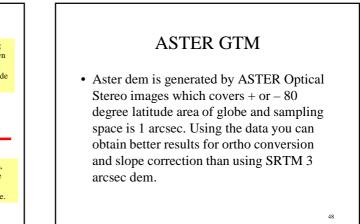


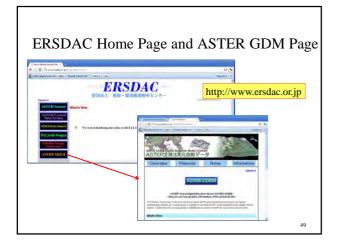






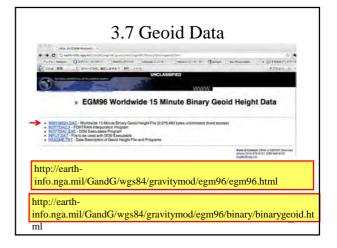


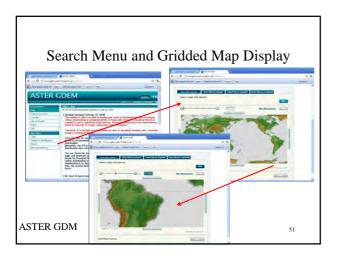


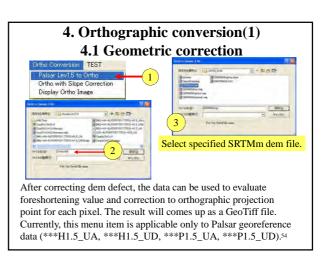


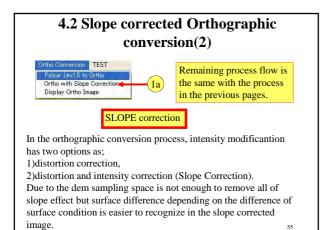


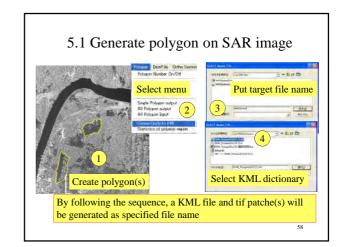




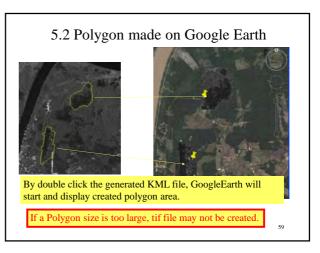


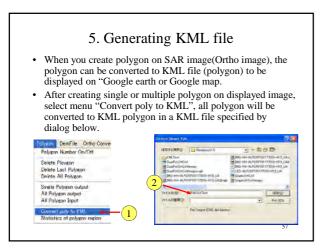


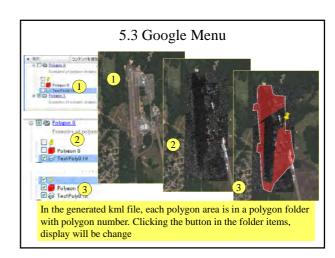


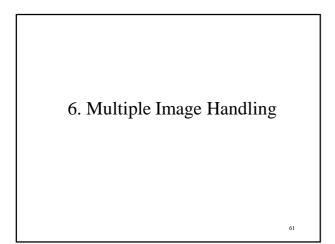


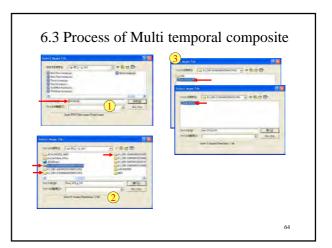


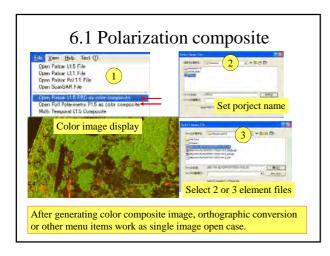


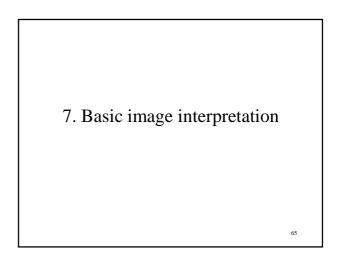


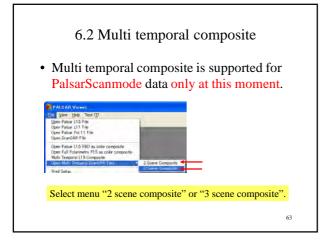


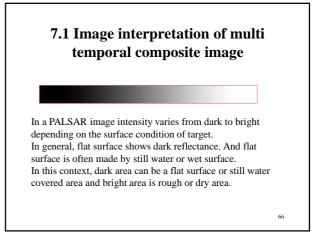


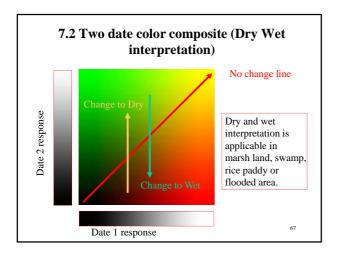


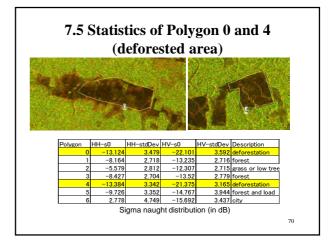


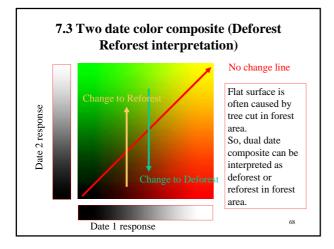


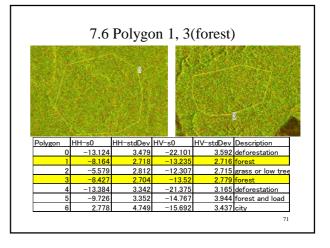


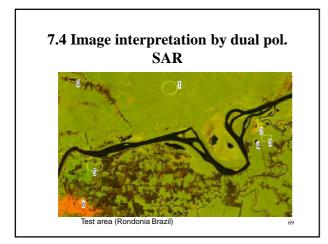


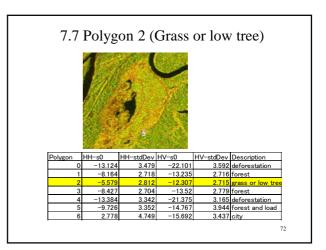


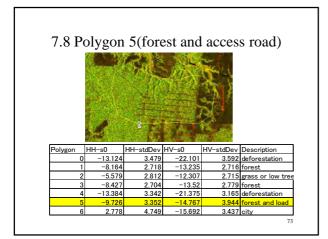












7.11 Yellow in forest area

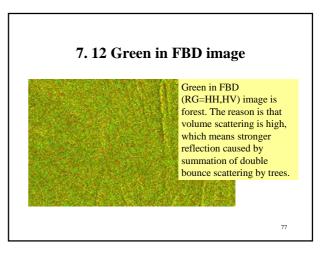


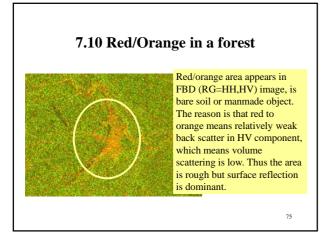
FBD(RG=HH,HV) image is low tree or grass land. The reason is that volume scattering exists but the value is low com pared with forest, that means low tree or grass causes weak volume scattering.

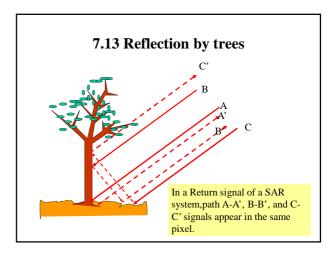
76

Yelllow in

7.9 Polygon 6 (Resident area) 6 Polygon HH-s0 HH-stdDev HV-s0 HV-stdDev Description -13.124 3.479 2.718 -22.101 -13.235 3.592 deforestation 2.716 forest -8.164 -5.57 2.81 -12.307 2.715 grass or low tre 13.52 2.70 8.42 orest -21.375 3.165 deforestation 13.384 3.342 3.35 4.74 -14.767 <mark>-15.692</mark> 9.72 3.944 forest and load 3.437







8. Scan SAR data handling

- Currently scansar long strip data is disclosed only for some restricted researchers.
- Other people can not access to the data.

7.3 Frame of full scale image



By pressing "v" key index image and full scale image is switched. Yellow square in index image is the frame of full scale image. Center of frame is your mouse clicked point.

This image can also be exported as the previous page menu.



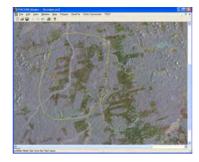
composite image appears.

79

small patch area will be

80

7.4 Draw polygon



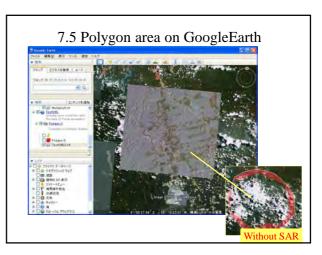
Draw polygons on full scale patch and select menu "Convert poly to KML" Then, a KML file with associated tiff file which enclose

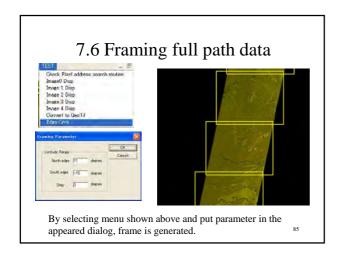
polygon area will be

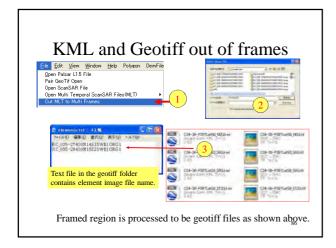
83

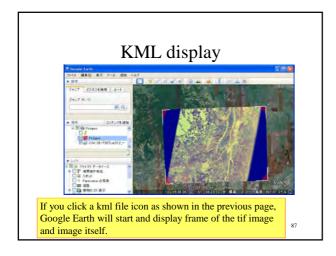
created.

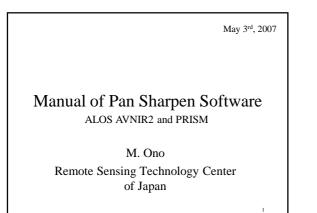
7.2 Full scale patch image This image can be exported as Geotif file (use menu below).

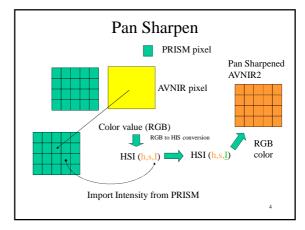


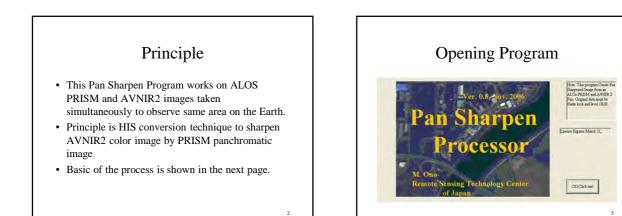


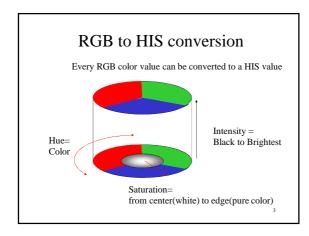


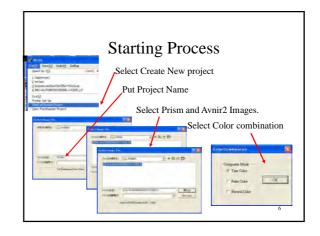


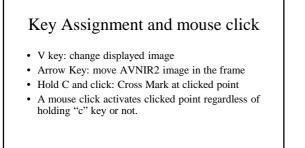




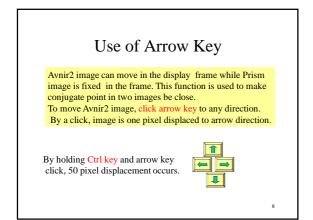


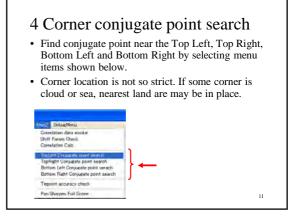


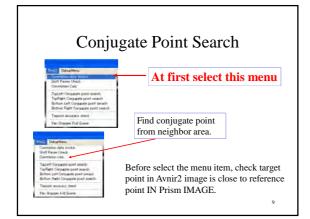


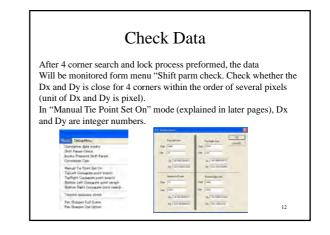






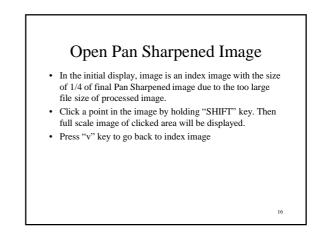


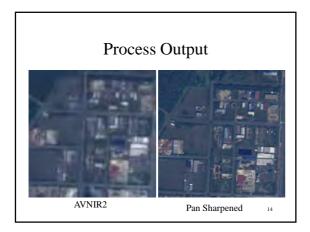


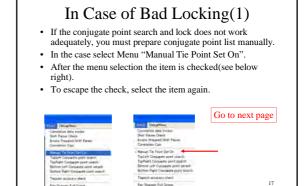


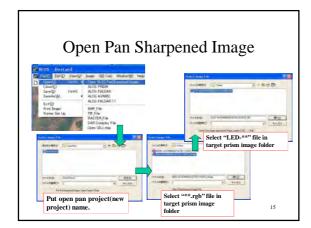
1	B file (BIP) to bout 700MB, AI	speci				
file but in the image.The output in	next training th	ie vie ned f	wer w	ill su	pport to se	
Pansharnened	Image" Menu					
Pansharpeneo	l Image" Menu.	-	OS - Dee			
Pansharpeneo	I Image" Menu.		Nomiti		Invest GS Call: W	ution (6) He
Processed Pan sha	arpened image		Citore (c) Serri (c) Serri (c) Serri (c) Serri (c)	V=10	Invent GIS Date Wi Actos President Transform Actos President Actos President Actos President Actos President Actos President Actos President	ngan (g) 19
·	arpened image with original		Count() Sever(5)	Ceri+S	ALOS PREM ALOS PALSAR: ALOS AVREP2	10000 Ha

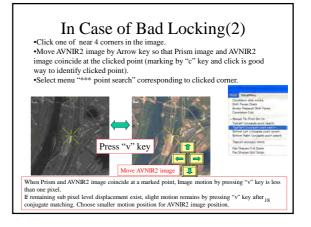
1 5









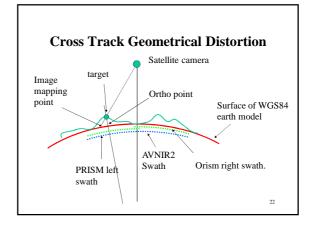


GeometricAccuracy

- In the current "PanSharpenProcessor", Pixel address of pansharpened image is the same with the original PRISM pixel address which provide Intensity information for the processed color pixel.
- Oweing to the arrangements, geometric accuracy is exactly that of original PRISM.

19

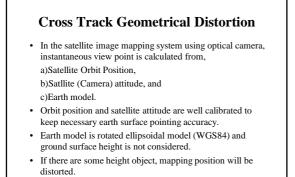
21

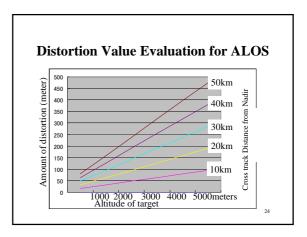


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Cross Track Geometrical Distortion

- The distortion is strong as the pointing angle increases from nadir direction.
- In the case of ALOS, both PRISM and AVNIR2 has same distortion value.
- So, in the Pan Sharpen process image coregistration is exactly kept every where in a image scene even if target area has high mountains.





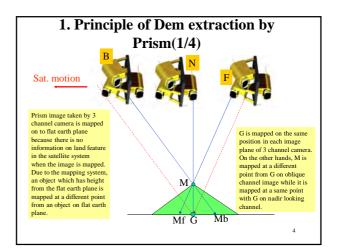
Jan. 5, 2009 Revision 1.0

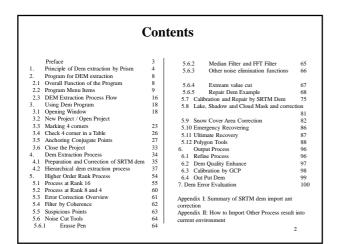
1

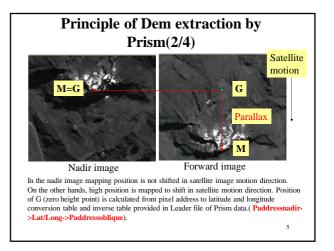
Manual of Prism DEM

Version 4.0

M. Ono Remote Sensing Technology Center Of Japan



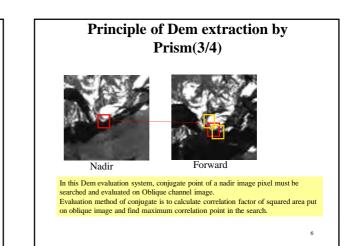


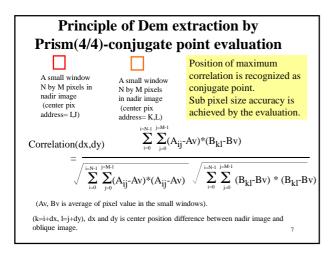


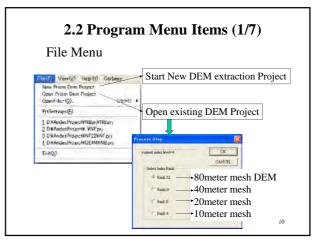
Preface

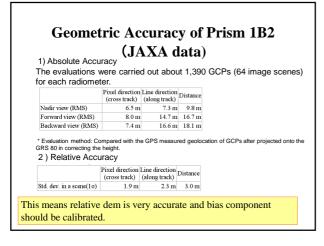
What is New in the version 3.0

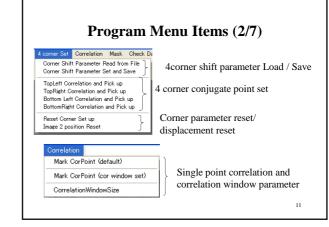
- Version 4.0 is fully revised to enhance accuracy, speed and user friendly operation.
- Output results spans from normal dem to orthographically projected dem and associated orthographic nadir image.
- All data is GEOTIFF to be easily export to general GIS software.



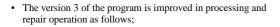




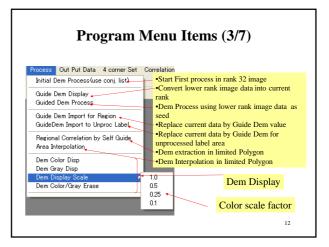


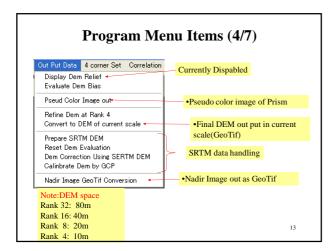


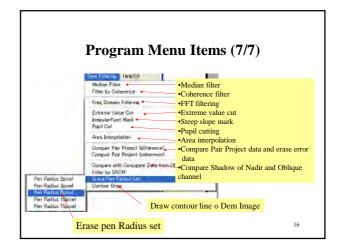
2. Program for DEM extraction 2.1 Overall function of the program

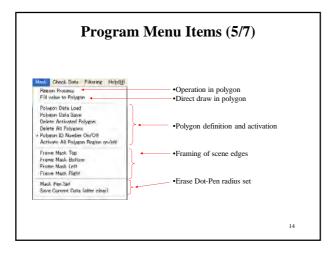


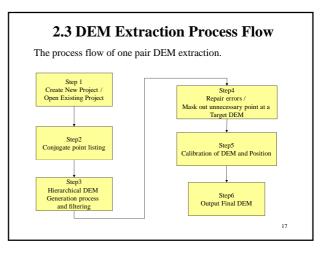
- (1) Support multi- regional mask operation,
- (2) Abolition of seed propagation,
- (3) Introduction of Median filter.
- (4) Check shadow area by nadir-oblique channel comparison.
- (5) Check DEM by comparison of pair project (comparison
- between Nadir-Back and Nadir-Forward pair results).
- (6) Error indication using coherence in tie oint search.
- (7) Additional pen tool to erase error point.
- By the modification processing and repair time is drastically reduced.

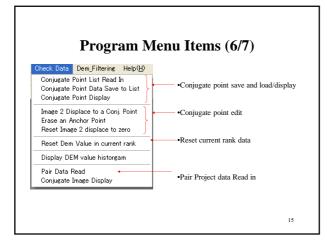


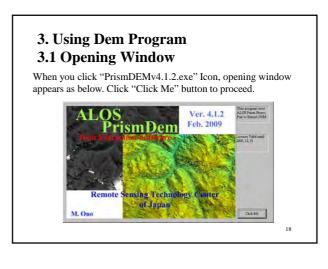


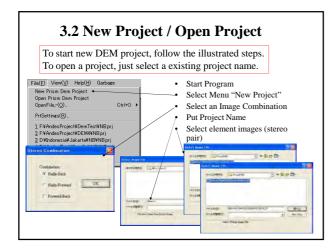


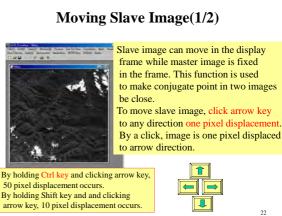


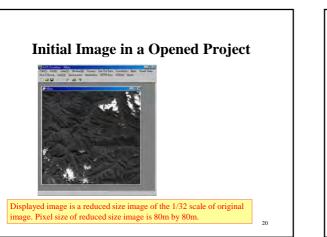


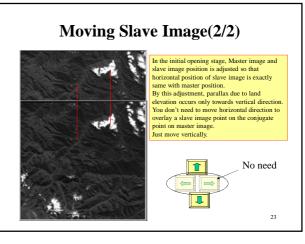


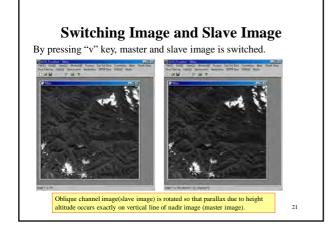












On rank4 image

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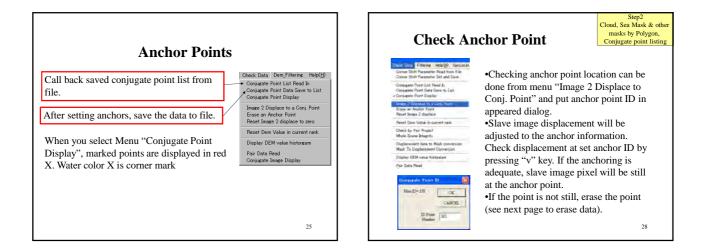
are Correlat ce Im

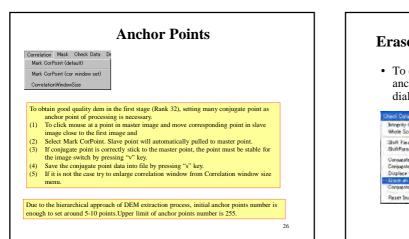
IndexImaneReadin Index Image Correlation Index Image ChiPoint Tra

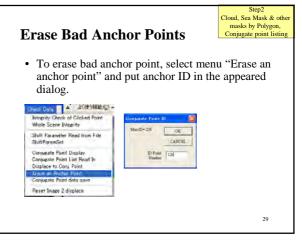
niugate Point Trace

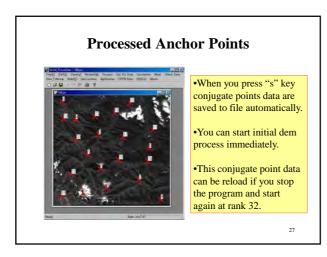


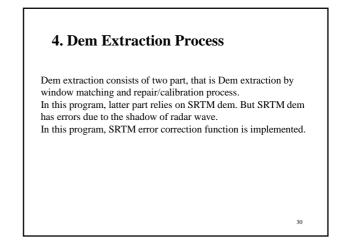
confirmed, press "S" key to save the data. (see next page)

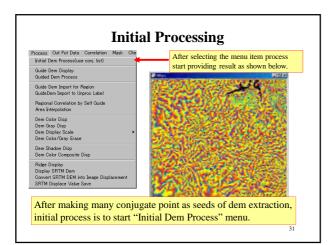


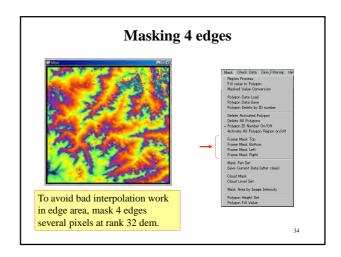


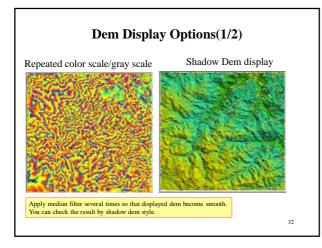


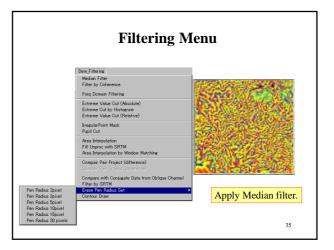


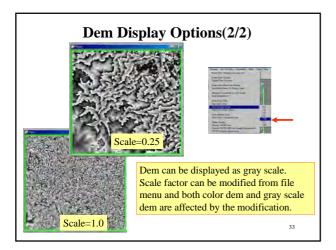


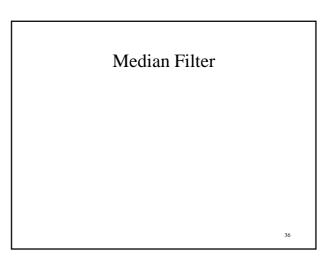


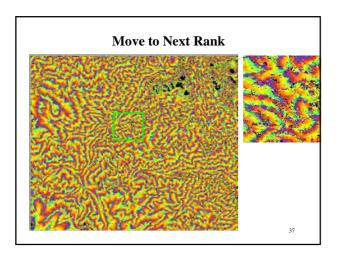


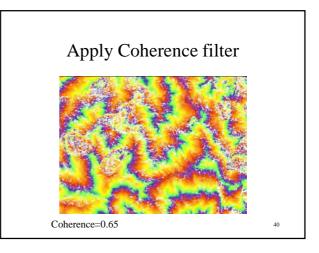


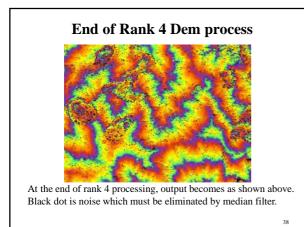


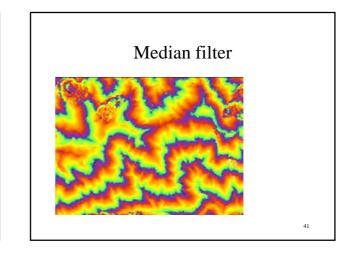


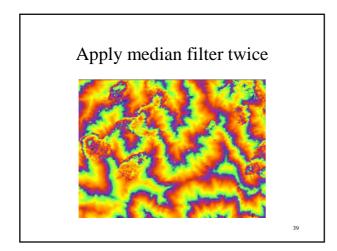


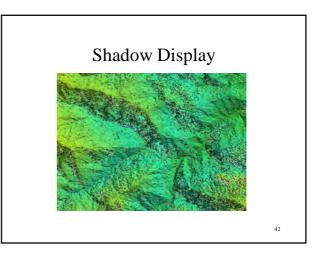


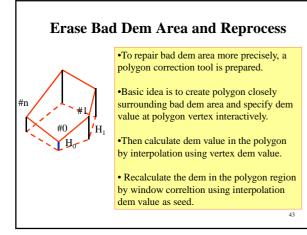


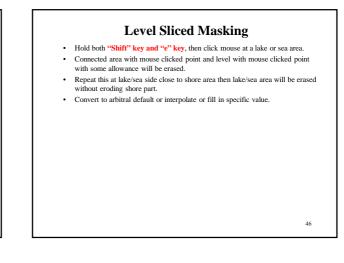


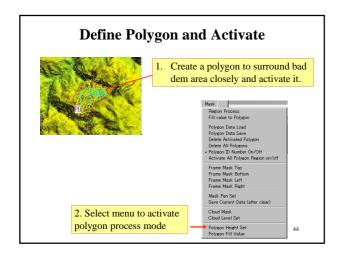


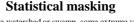




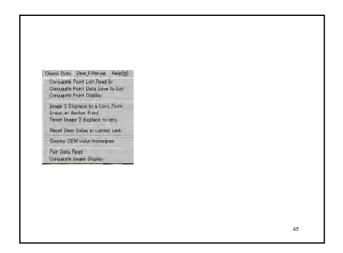


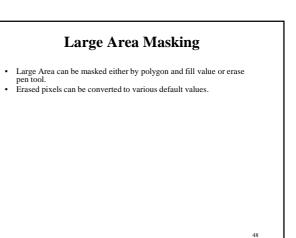


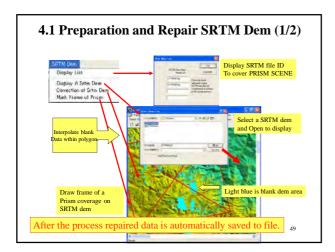


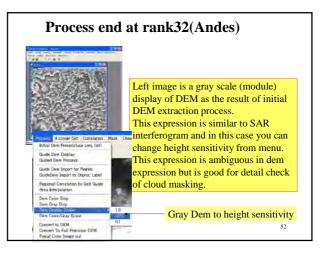


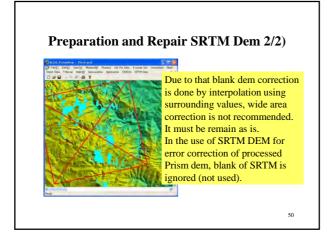
- In a flat area like watershed or swamp, some extreme value appears due to false conjugate point lock on.
- Such bad data cab be eliminated by eliminating statistical extreme values.
- In advance of the process first apply absolute extreme cut by putting high valute to 10000(meters) and low value -500(meters) to avoid effect by non-numeric error happens in the conjugate point search process.
- Then apply "statistical extreme cut" and area interpolation.

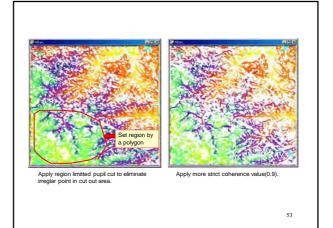


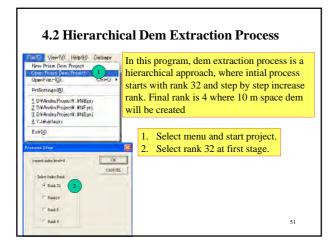


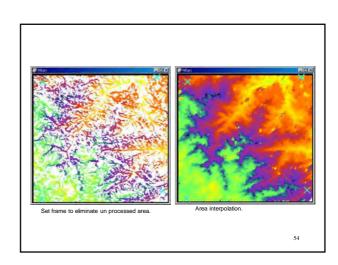


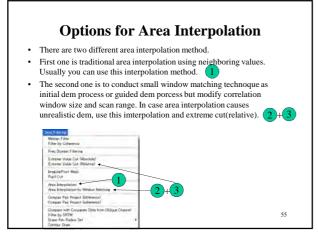


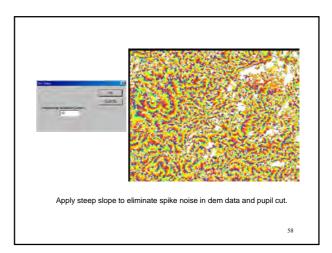


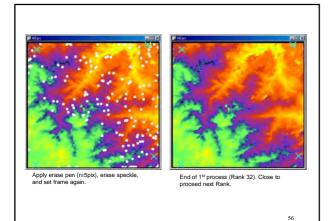


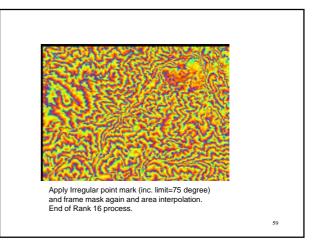


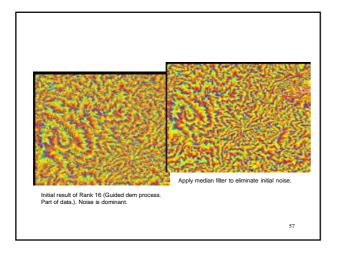


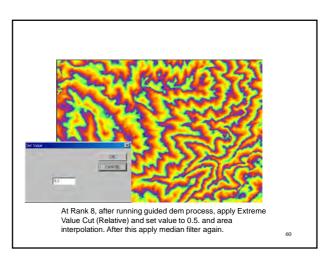


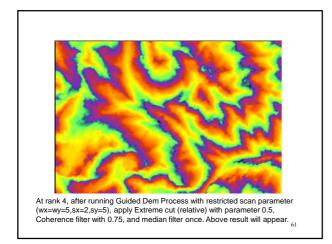


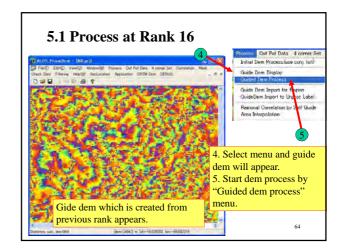


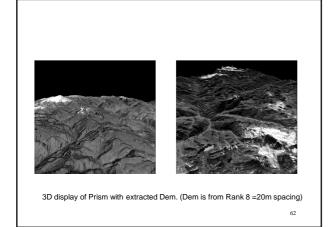


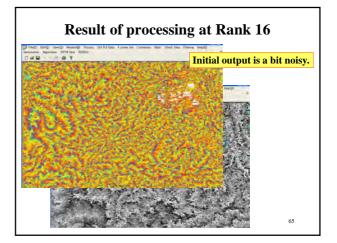


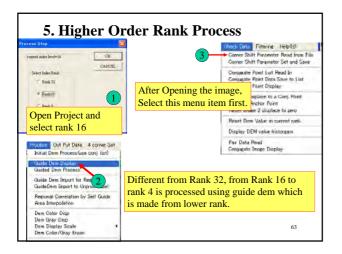


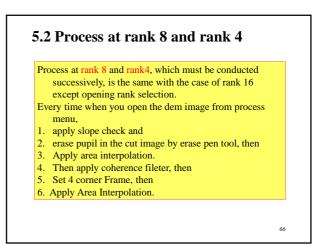






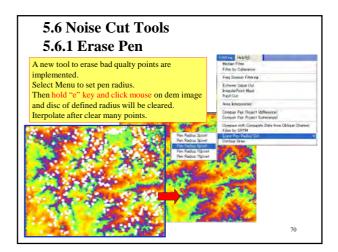


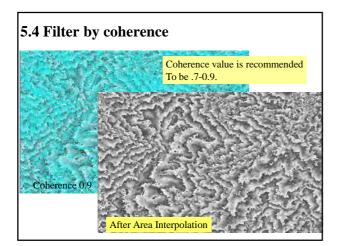


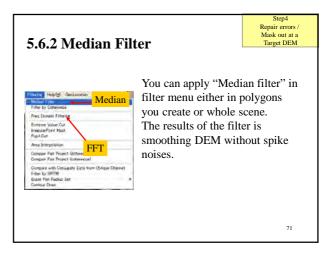


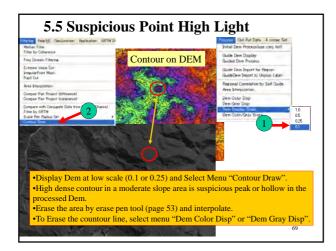
5.3 Error Correction Overview

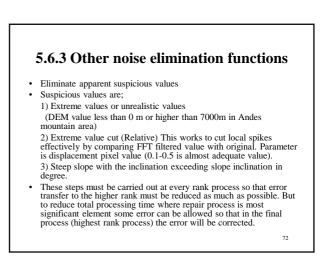
- Initial error correction must be done by filtering by coherence value.
- Following step for error correction is as follows.
- Current approach of DEM processing is hierarchical approach starting from low resolution image and enhance accuracy by higher resolution images. In the process various error occurs which must be corrected in this repair process.
- There are several error sources which damage the extracted DEM accuracy.
- The error source in this process is as follows;
 1) Seed position error (start point error)
 2) low intensity of the source image or saturation of image (low correlation factor)
- 3) image pattern ambiguity
 These errors can be eliminated either by recalculating conjugate point starting from more reliable seed data or by a simple interpolation using neighboring DEM values.

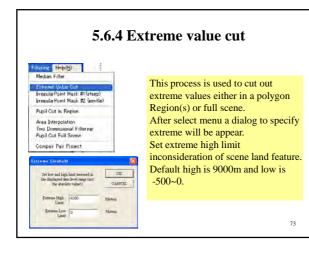


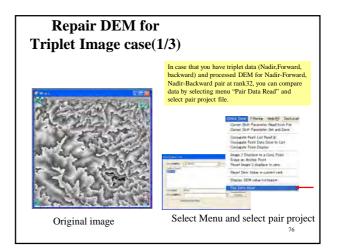






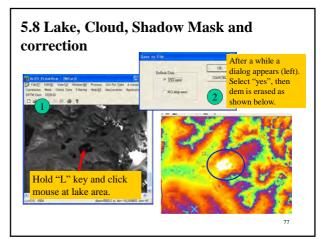


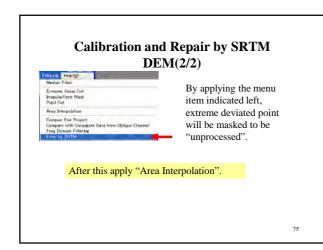


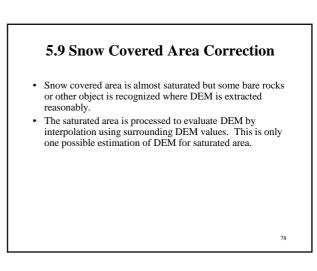


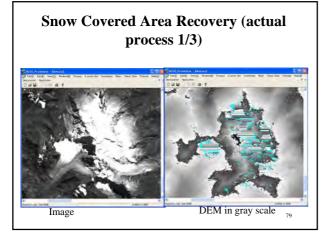
5.7 Calibration and Correction by SRTM DEM(1/2)

- Shuttle Radar Topographic Mission(SRTM) provide us a good reference of DEM covering most of low latitude to middle latitude areas.
- But this DEM is 90m spacing which is not sufficient to replace the PRISM DEM.
- Still SRTM DEM is good for calibrating bias value of DEM extracted by "Prism DEM" program.
- Also extreme dem value which happens in the "Prism DEM" program can be cut out using SRTM DEM.







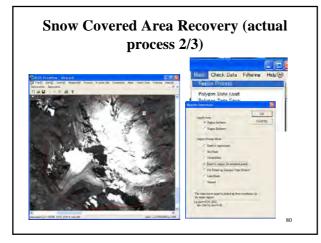


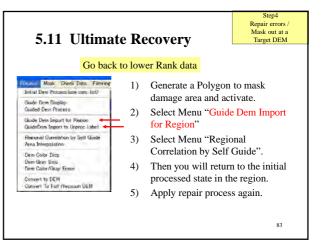
5.10 Emergency Recovery Process

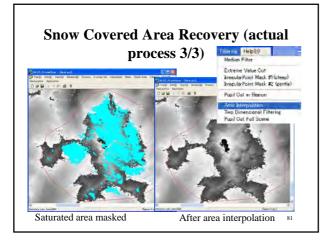
• Some times, you may damage an area (Polygon region) during repair.

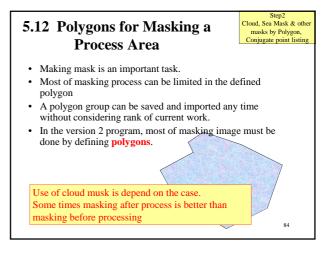
Repair errors / Mask out at a Target DEM

- In such a case there are 2 recovery method.
- The first is select menu "Un Do". Most of the unrecoverable process is supported by undo. You can select Menu "Undo" to return to previous state. Multi undo is supported.
- Other method is to start processing from the scratch by applying lower Rank data in a defined polygon.



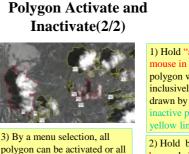






Step2 Cloud, Sea Mask & other **Polygon Set and Registration** masks by Polygon, Conjugate point listing •In the following process, user sometimes need to set a region where some operation will be conducted within the region. •A region for the purpose can be defined by a polygon. •To set a polygon, first press "p" key for flushing polygon Polygon to define region buffer. •Then hold "t" key and click mouse. Since the last point of polygon will be connected to the first point, user doesn't need to close the polygon. •Register the Polygon by pressing "r".

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polygon can be inactivated.4) Polygon ID number can be

on or off by a menu selection.

Step2 Cloud, Sea Mask & other masks by Polygon, Conjugate point listing

 Hold "a" key and click mouse in a polygon, the polygon will be activated inclusively. Active polygon is drawn by a red line while inactive polygon is drawn by a yellow line.
 Hold both "SHIFT"+ "a" key and click mouse in a polygon, the polygon will be

polygon, the polygon will be activated exclusively. All the other polygon will be inactive.

