

Coastal California Data Merge Project

Report Produced for the National Oceanic
and Atmospheric Administration (NOAA)

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Executive Summary

The primary purpose of this project is to merge recently collected topographic, bathymetric, and acoustic data along the California coastline from approximately the 10 meter elevation contour out to California's 3 mile state waters boundary. The inland boundary will include the NOAA/Ocean Protection Council (OPC) "all valid data" dataset based on a shapefile provided by NOAA Coastal Services Center (CSC).

Following an extensive data inventory, topographic, bathymetric, and acoustic data sources were obtained for use in the merge. Topographic LiDAR data was provided by NOAA, collected for the California Coastal Mapping Project (CCMP). Bathymetric LiDAR data was provided by the Joint Airborne LiDAR Bathymetry Technical Center of Expertise (JALBTCX), also collected for the CCMP. Multibeam Acoustic data was provided by the California Seafloor Mapping Program (CSMP): Ocean Protection Council, NOAA, and USGS where available.

Data delivery for California is divided into 4 production blocks. This delivery includes all production blocks.

THE PROJECT TEAM

Dewberry served as the prime contractor for the project and subcontracted with Fugro EarthData for a portion of this task order. Dewberry was responsible for acquiring and preparing all sources of the topographic, bathymetric, and acoustic data, developing best-fit seamlines between data types, reclassifying the LAS data, generating and smoothing the final DEM, creating the final vertical accuracy and data void layers, and performing final quality assurance.

Fugro Earthdata was tasked with processing and tiling of the acoustic data in production blocks 3 and 4, as well as a portion of the bathymetric data. LAS data was reclassified accordingly into final and overlap classes. Fugro Earthdata generated best-fit seamlines between unique acoustic survey data and in areas where overlapping bathymetric was present. Within the same survey group, best resolution data was used and no best-fit seamlines were produced.

SURVEY AREA

The full project area includes 4 production blocks, spanning 6,145 miles, and includes 17 counties along the coastline.

DATE OF SURVEY

The LiDAR aerial acquisition dates vary with each data source. Information, including acquisition dates, is available for each data source used for this delivery and can be found in the data inventory, named Full_DataInventory.xlsx, delivered to NOAA CSC. A file geodatabase (FGDB) has also been included to show the spatial extents of all acoustic data used.

DATUM REFERENCE

Data produced for the Coastal California Data Merge Project were delivered in the following reference system.

Horizontal Datum: The horizontal datum for the project is North American Datum of 1983 (NAD 83) NSRS2007

Vertical Datum: The Vertical datum for the project is North American Vertical Datum of 1988 (NAVD88)

Coordinate Systems: Universal Transverse Mercator (UTM) Zone 10 North and Universal Transverse Mercator (UTM) Zone 11 North, where appropriate
Units: Horizontal units are in meters, vertical units are in meters
Geoid Model: Geoid 09

LIDAR VERTICAL ACCURACY

LiDAR vertical accuracy varies with each data source. Additional vertical accuracy testing was not performed on the data and was not required by this task order. Using the information from the metadata, a vertical accuracy layer was generated in both raster and vector format. Accuracy values are represented as RMSE_z where available.

| Data Source | Reported Vertical Accuracy |
|---------------------------|-----------------------------------|
| NOAA Topographic LiDAR | 4.8 cm RMSE _z |
| JALBTCX Bathymetric LiDAR | 15 cm RMSE _z |
| Multibeam Acoustic Data | Varies by source or not available |

Table 1: Accuracy values of source data as found in the respective metadata.

Where vertical accuracy is unavailable, it was identified as “undefined” in the vector layer and as -9999 in the raster layer. Uncertainty values provided in the acoustic Bathymetry Attributed Grid (BAG) data were generalized in the vector layer.

PROJECT DELIVERABLES

The deliverables for the project are listed below.

1. Merged Point Data in LAS v1.2 format
2. Smoothed with Interpolated Voids Merged DEM in ERDAS IMG format (Tiled)
3. Smoothed with Voids Merged DEM in ERDAS IMG format (Tiled)
4. Vertical Accuracy Layer in raster (Tiled) and vector (shapefile) formats
5. Void Mask in raster (Tiled) and vector (shapefile) formats
6. Ancillary Data (File GDB)
 - o Seamlines (topo/bathy and bathy/acoustic)
 - o Smoothed Areas (topo/bathy and bathy/acoustic)
 - o Tile grid of delivered tiles
 - o Acoustic boundaries
7. FGDC Compliant Metadata for DEM, Vertical Accuracy layer, and Void Mask
8. Source Data Used (Microsoft Excel spreadsheet)
9. Acoustic Source extent boundaries (File GDB)
10. Project Boundary
11. Project Report

PROJECT TILING FOOTPRINT

Eight thousand and eighteen (8018) LAS tiles are included in all of the Coastal California Data Merge Project area. Eight thousand and forty (8040) tiles are included per DEM, vertical accuracy, and void mask rasters. This discrepancy is attributed to the fact that in areas of large voids, no LAS data points are available. However, in the DEMs, these void areas are interpolated and available for tiling. In the DEMs with voids, these tiles are comprised of full NoData values. Each tile’s extent is 1500m x 1500m. A complete list of delivered tiles can be found in Appendix A.

Ten (10) tiles that intersect the project boundary were completely removed from final delivery. These tiles do not have any valid LAS points and also do not have any interpolated DEM values. They are found on the very edges of the project boundary. These 10 tiles are listed below:

| Tile Name | |
|-------------|-------------|
| 11SMS275975 | 10SFE840000 |
| 11SMS275990 | 10SFE825285 |
| 11SMS500795 | 10SEG235865 |
| 11SMT260005 | 10TCL885150 |
| 11SLT690575 | 10TCM975125 |

Table 2: List of tiles removed from delivery



Figure 1: Coastal California Project Boundary



Figure 2: Coastal California production blocks

LiDAR Processing & Qualitative Assessment

DATA CLASSIFICATION AND EDITING

All data was initially processed using GeoCue and TerraScan software by Dewberry. The initial step is the setup of the GeoCue project, which is done by importing a project defined tile boundary index encompassing the entire project area. LAS points from the topographic data and ASCII files from the bathymetric and acoustic data sources were imported into the GeoCue project, converted to LAS 1.2, and tiled to the production tile grid.

Topographic data was reviewed along the coastline for misclassified ground. Offshore islands were added back to the ground (class 2) where necessary. The shoreline ground was also extended in some areas to meet with the bathymetric data.

Bathymetric data was modified to remove miscellaneous artifacts located above the water line – docks, piers, boats, etc. This is done through TerraScan using absolute elevation reclassification to class 21 (Non-submerged Bathymetry). Tiles are then reviewed for additional artifacts and/or aggressive classification. Bathymetric-acoustic overlap data was moved to class 23 (Ignored Submerged Bathymetry/Overlap).

ASCII files from the acoustic BAG data were transformed from mean lower low water (MLLW) to NAVD88 using NOAA's VDatum software (version 2.3.5) prior to import. Acoustic heights (z) were also converted to soundings (-z) for project consistency. Other sources of acoustic data were modified as necessary to remain consistent with the rest of the project data. Acoustic-acoustic overlap data was reclassified to class 26 (Ignored Multibeam Acoustic/Overlap).

For the final merged LAS product, the following classification codes were used:

- Class 1 = Unclassified (Topography)
- Class 2 = Ground (Topography)
- Class 7 = Noise (Topography)
- Class 9 = Water (Topography)
- Class 10 = Mud Flats (Topography)
- Class 12 = Overlap (Topography)
- Class 21 = Non-submerged Bathymetry
- Class 22 = Submerged Bathymetry
- Class 23 = Ignored Submerged Bathymetry / Overlap
- Class 25 = Multibeam Acoustic
- Class 26 = Ignored Multibeam Acoustic / Overlap

Final LAS data points were not clipped to the project boundary. Fully classified LAS tiles have been provided.

CREATING SEAMLINES BETWEEN DIFFERENT DATASETS

The creation of seamlines between the different datasets is necessary in order to properly reclassify areas of overlap. The seamline is also the starting point for the creation of the buffers used for smoothing the final DEM. Best fit seamlines were generated for the following areas:

- Topographic/Bathymetric boundary
- Acoustic/Acoustic survey boundary
- Bathymetric/Acoustic boundary

Within an acoustic survey, if multiple resolution data was available, the best resolution was prioritized. The extent of each resolution was generated in Global Mapper. In areas of overlap, the extent of the best resolution data was used to classify acoustic data to class 25 (Multibeam Acoustic). Remaining LAS points were moved to class 26 (Ignored Multibeam Acoustic/Overlap).

Topographic-Bathymetric Best Fit Seamline

All breaklines provided by NOAA were merged into a single polygon feature class. This became the foundation of the initial seamline. Areas containing both topographic and bathymetric data along the coastline were reviewed on a tile-by-tile basis using difference rasters. Because the topographic data has better horizontal resolution and vertical accuracy than the bathymetric data, it generally took priority over bathymetric data in overlap areas. However, in some areas a smoother transition between the topographic and bathymetric LiDAR datasets could be achieved by modifying the extent of the topographic data in favor of the bathymetric data. In these cases, the breakline was adjusted accordingly.

The final polygon feature class was used for reclassification of LAS points in TerraScan. The polygon was converted to a polyline in Arc and clipped to the extent of the coastal shoreline. This final polyline was also used as basis for the creation of the DEM smoothing buffers.

Acoustic-Acoustic Best Fit Seamline

Extent boundaries for each acoustic survey were generated in Global Mapper and used as a foundation for a best fit line. Difference rasters were produced along survey boundaries. Using the difference rasters as a guide, the extents were modified in areas of overlap to create the smoothest transition from one survey to the next. The final polygon boundaries were used for reclassification of acoustic data points.

Bathymetric-Acoustic Best Fit Seamline

The bathymetric-acoustic seamline was generated using the same methodology as the acoustic overlap seamline above. Difference rasters were produced along the acoustic and bathymetric boundary. The polygon extent from the acoustic data was modified along this boundary to create a best fit seamline. The final polygon was used for reclassification of bathymetric and acoustic data points. The polygon was converted to a polyline in Arc and used as basis for the creation of the DEM smoothing buffers.

RECLASSIFICATION OF TOPOGRAPHIC DATA

Reclassification of offshore islands and pinnacles is a critical component to the success of the final merged product. Tiles within 100 meters of the coastal shoreline were identified for manual reclassification. Each tile was brought into TerraScan and a temporary surface model was created from the topographic ground points (class 2). Using aerial imagery as a guide, the coastline was examined for any exposed islands that could be reclassified to ground (class 2). Once located, LAS points were reclassified from water (class 9), unclassified (class 1), or, in rare cases, bathymetry (class 22) to ground.

In topographic-bathymetric overlap areas where the seamline was modified, any affected topographic points were moved from ground (class 2) to unclassified (class 1) in TerraScan using the topographic-bathymetric seamline polygon feature class. After manual classification was complete, LAS tiles were loaded into Global Mapper for initial QC.

RECLASSIFICATION OF BATHYMETRIC DATA

In areas of overlap where topographic data was given priority over bathymetric data, overlapping bathymetric points were moved to class 21 (non-submerged bathymetry). This was performed in TerraScan using the final seamline polygon.

A minimum of three (3) data points within a 15 meter radius is required for inclusion in the DEM. An extent polygon is needed to accomplish this task. Topographic ground points (class 2) and bathymetric points (class 22) were converted to a masspoint feature class in Arc. Ground points from the topographic data were purposefully included here. The assumption is that if there is a bathymetric point within 15 meters of two topographic ground points, it should be used in the DEM. If ground points were excluded from consideration, nearshore bathymetric points may be incorrectly excluded as well. The masspoints were used as the input in the Aggregate Points tool in Arc with a set distance of 15m.

After the final extent polygons were generated, class 22 bathymetric points not within these polygons were moved to class 23 (ignored submerged bathymetry/overlap) in TerraScan. Points outside the extent polygon remained in class 21/22. Finally, to remove above-ground artifacts from the bathymetric data, all class 22 points with elevations above +1m were reassigned to

class 21 using an automated process in TerraScan. This removed docks, piers, bridges, and other miscellaneous artifacts from the point cloud. Bathymetric data between 0 – 1m elevation were left in class 22 to avoid classifying out too many data points in the nearshore areas. Bathymetric elevations between 0 - 1m were evaluated on a tile-by-tile basis and moved to class 21 if necessary.

In areas where bathymetric data overlapped acoustic data, the bathymetric-acoustic seamline boundary was used to reclassify overlapping bathymetric points to class 23.

RECLASSIFICATION OF ACOUSTIC DATA

Each survey of the acoustic data was reclassified from temporary class codes to the final class 25 (multibeam acoustic) and class 26 (acoustic overlap). This process was automated in TerraScan. For the BAG data, the best resolution data was used and no best fit line was produced between resolutions. In Terrascan, voids in higher resolution acoustic BAG data were filled with available lower resolution BAG data. This process results in a merged LAS point cloud for each survey location utilizing the best resolution BAG data. Ignored and overlap points were classified into class 26. QC of the filled datasets was performed to check for excessize stepping, surface quality (artificial cliffs and ridges), and completeness.

Between surveys, the best fit seamline was used for reclassification. Final acoustic data was reviewed to ensure aggressive classification of data did not occur.

LIDAR ANALYSIS

After the reclassification of the data was finalized, all LAS data was merged in GeoCue to produce the final tiled LAS. Files were QCed for correct header, projection, and naming conventions.

The following observations were made during LiDAR processing:

1. **File Format:** The LAS files are verified to meet project specifications. The LAS files for the NOAA Coastal California Data Merge project conform to the specifications outlined below.
 - **Format**
 - LAS format 1.2
 - Point data record format 1
 - GPS Standard Time (where available)
 - **Classification scheme**
 - Class 1 = Unclassified
 - Class 2 = Ground
 - Class 7 = Noise
 - Class 9 = Water
 - Class 10 = Mud Flats
 - Class 12 = Overlap
 - Class 21 = Non-submerged Bathymetry
 - Class 22 = Submerged Bathymetry
 - Class 23 = Ignored Submerged Bathymetry / Overlap
 - Class 25 = Multibeam Acoustic
 - Class 26 = Ignored Multibeam Acoustic / Overlap

- Projection
 - Datum: North American Datum 1983, NSRS 2007
 - Projected Coordinate System: UTM Zone 10 North, UTM Zone 11 North
 - Horizontal Units: Meters
 - Vertical Datum: North American Vertical Datum 1988, Geoid 09
 - Vertical Units: Meters

- 2. Submerged Artifacts: Most submerged artifacts were not removed from the LAS. In order to treat features consistently across the project area, when in doubt regarding the accuracy of the data points, the points would be considered a valid underwater feature. In cases where features seem inaccurately portrayed, these points were moved to the overlap class. An example is shown below.

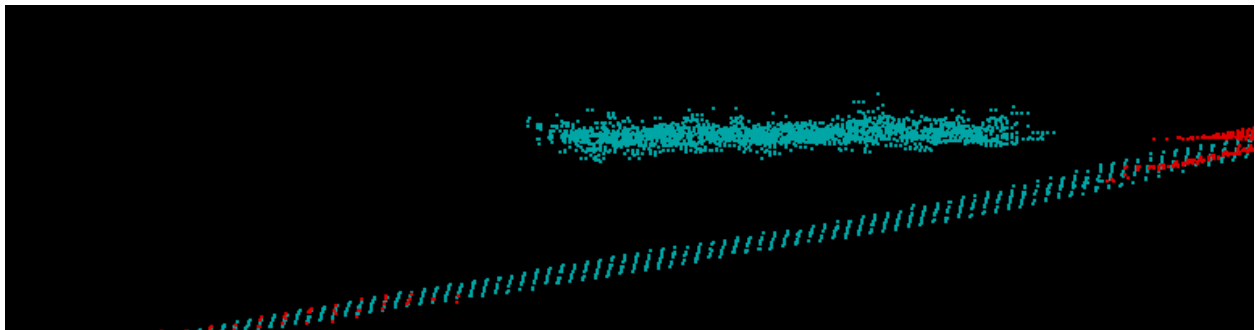
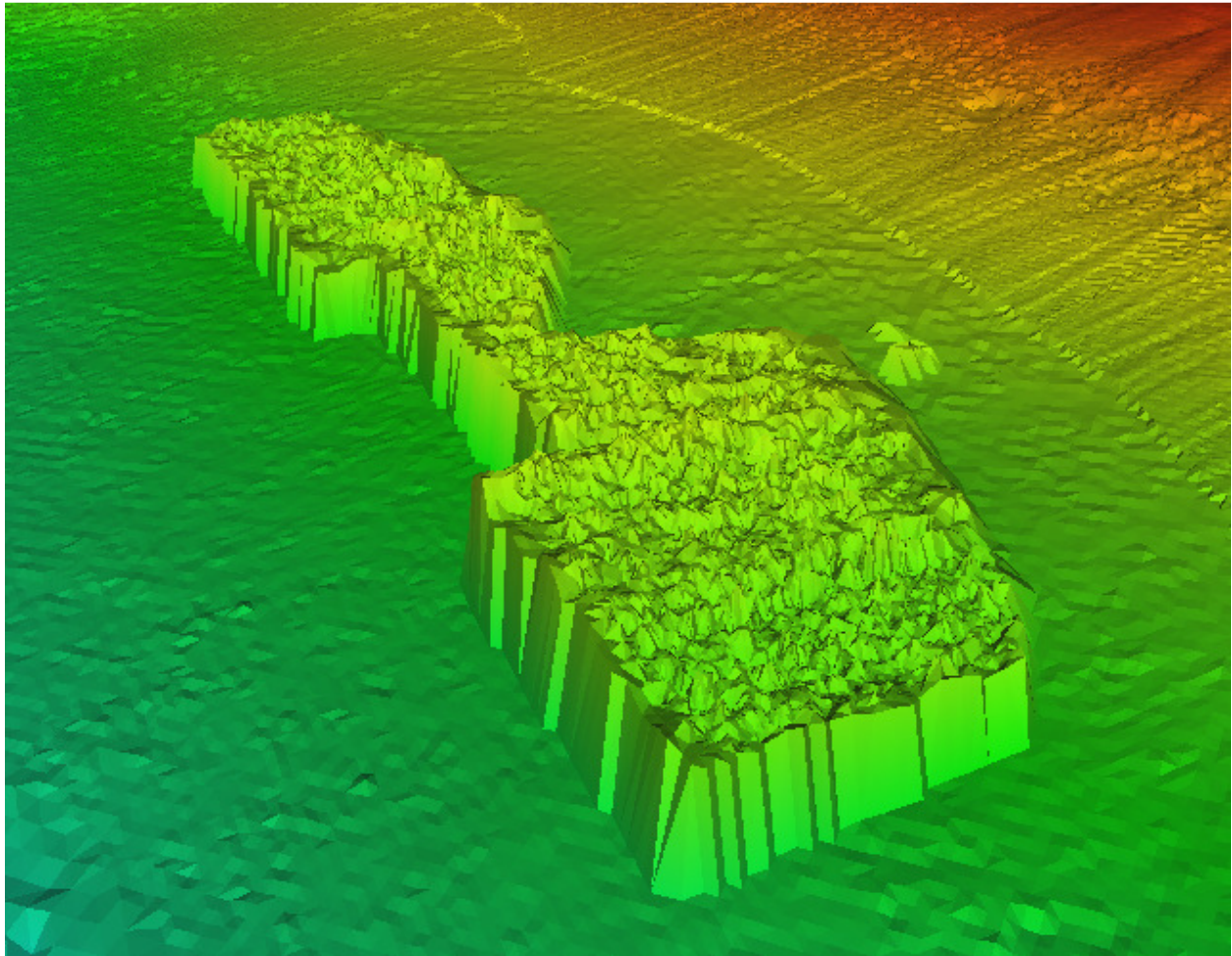


Figure 3: Tile #11SMS710405. Top: TIN model showing an artifact in the acoustic region where the points range from 20-50 meters above the surrounding area. Bottom: Profile view of acoustic points (cyan – class 25) in this location.

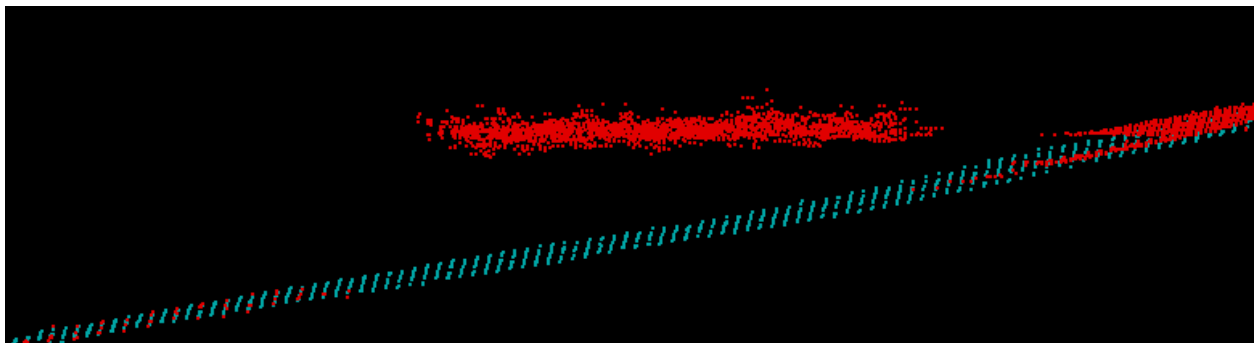
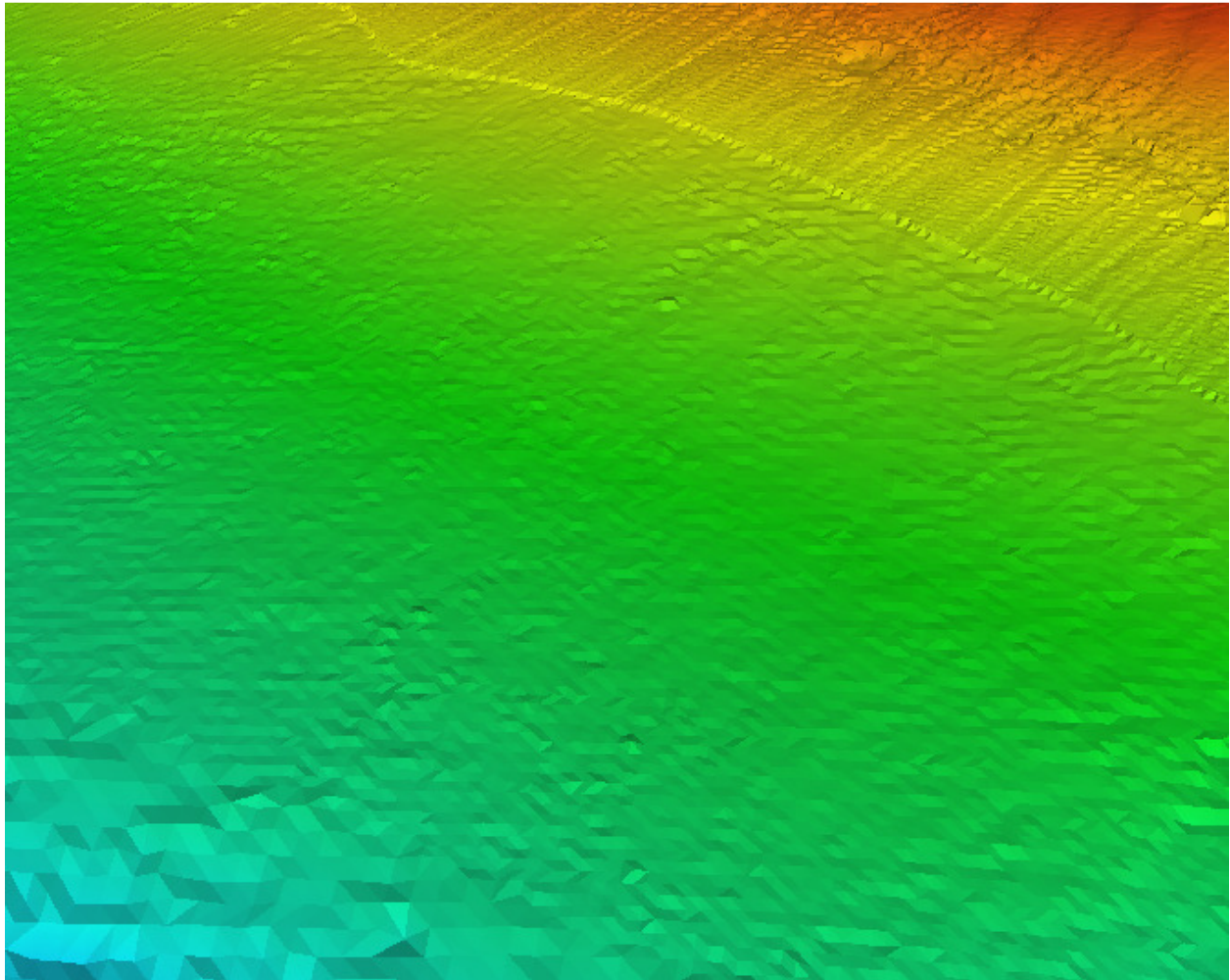


Figure 4: Tile #11SMS710405. Top: TIN model after removing artifact in the acoustic region. Bottom: Profile view of newly classified acoustic points in this location (cyan – class 25 final, red – class 26 overlap).

3. Islands / Offshore outcrops: Some islands were classified to water in the original topographic LiDAR data. Dewberry manually reclassified topographic LiDAR data to accurately reflect the presence of these offshore landmasses. Bathymetric data in these areas were reclassified to class 21 (non-submerged topography). If no topographic data was available, bathymetric data was moved from class 22 to class 2 to supplement the ground. An example from block 4 is shown below.

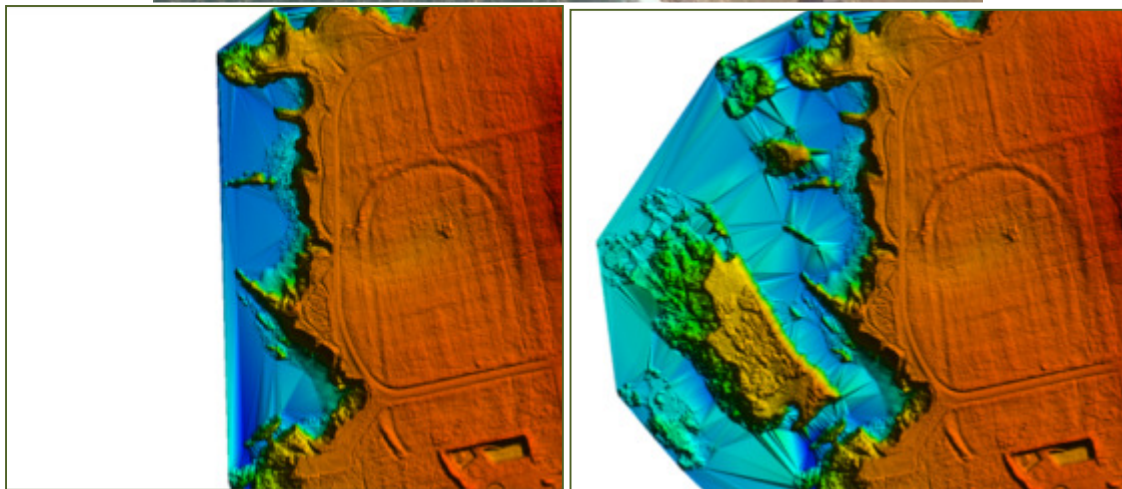


Figure 5: Tile# 10SDJ290500. Top: Aerial imagery showing a large island off the coastline. Bottom left: TIN before reclassification. Bottom right: TIN after manual reclassification.

4. **Artificial Features:** In several locations, filling voids with available acoustic data would result in elevated “islands” or artificial depressions due to the vertical offsets between the data sources. Therefore, to provide a more consistent ground, the points were allowed to interpolate across and acoustic data was kept in class 26 (ignored). Similarly, in areas where there are voids in the acoustic data, some bathymetric data was left as class 23 (ignored/overlap) to prevent additional artificial features. An example is shown below.

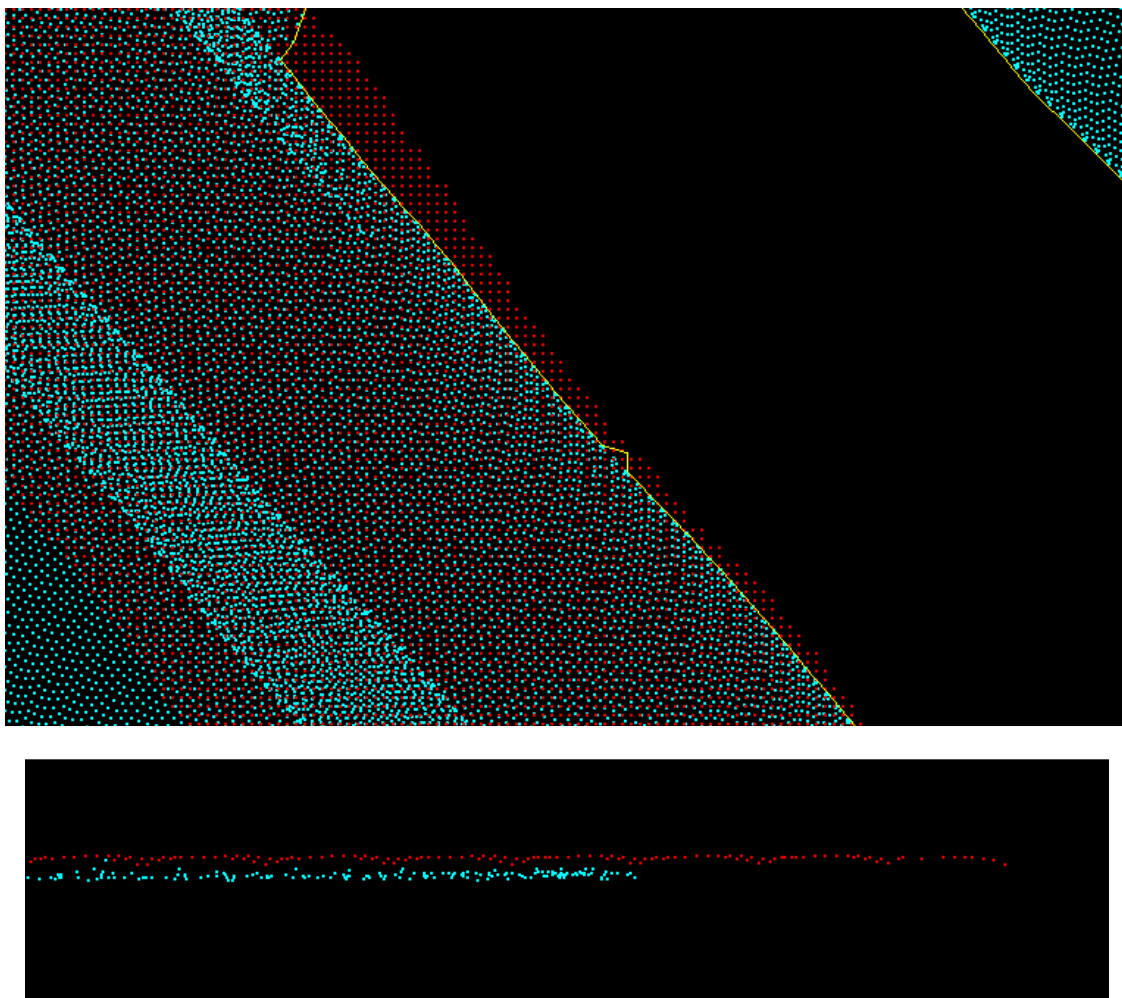


Figure 6: Tile #11SMS530855. Top: Bathymetric data (cyan – class 22) and acoustic overlap data (red – class 26). This void is not filled with available acoustic data because it would create a 0.5 meter high ledge at the boundary.

DEM Production & Qualitative Assessment

The final products for production block 1a include two types of Digital Elevation Models (DEMs): Smoothed with Interpolated Voids and Smoothed with Voids. Smoothing was performed on the topographic-bathymetric seamline and the bathymetric-acoustic data seamline where necessary. Smoothing was not performed between adjacent acoustic surveys. DEMs were created by Dewberry after finalizing all data point classifications and reviewing LAS for quality assurance.

DEM PRODUCTION METHODOLOGY

Dewberry utilized ESRI software and Global Mapper for the DEM production and QC process. ArcGIS software was used to generate the products and the QC was performed in both ArcGIS and Global Mapper.

1. LAS Classification: Final classifications for topographic, bathymetric, and multibeam acoustic LAS were merged in GeoCue.
2. Terrain Processing: LAS data was converted to masspoints in Arc using classes 2, 22, and 25. This masspoint feature class was used as the input for terrain processing in Arc with a 0.7m average point spacing.
3. DEM Zones for Processing: Individual DEM zones consisting of a one tile buffer were generated for the production block. This ensures artifacts are not created along boundaries during processing.
4. Convert Terrain to Raster: The output terrain was converted to an ERDAS Imagine raster (IMG) with 1 m cell size using the Natural Neighbors method. Extents were set to the DEM zone boundaries generated in step 3.
5. Smoothing: The resulting raster was smoothed using the approved smoothing methodology described below.
6. Removal of Voids: Void areas were removed from the raster produced from step 5 above using a void mask produced in the methodology described below. Voids along the topographic project boundary were removed for both DEM products. Additional voids within the bathymetric and acoustic areas were removed for the DEM with voids.
7. Final DEM: Rasters were clipped to the project boundary in Arc.
8. Extract Individual Tiles: Using a Dewberry proprietary tool, final DEMs were clipped to the tile grid and QC'd to ensure tile boundaries are seamless.

SMOOTHING METHODOLOGY

Dewberry utilized ESRI ArcGIS software and Global Mapper for the creation and analysis of the smoothing technique.

1. Best Fit Line: The best fit seamline was used as the starting point for the smoothing process of the DEM. Using the initial raster from step 4 of the DEM methodology above as a visual guide, the seamline was reviewed manually on a tile by tile basis in Global Mapper. The line was clipped and/or removed in areas where vertical offsets were not visible in the DEM or where cliffs, berms, voids, or other features would be not be smoothed. This prevents any unnecessary alteration of the original elevation data. A 10m radius buffer polygon was generated in Arc around the remaining portions of the best fit line.
2. Extract the Smooth Mask Area: In Arc, the polygon buffer was used to extract a raster "strip" that would be used in the smoothing process. After extraction, the cell values in this raster strip were resampled to 3m cell size using mean aggregation. The resulting raster was resampled back to a 1m cell size using bilinear interpolation. This process produced a raster strip that would be used to smooth between data sources.
3. Smooth Mask Overlay: The initial raster, the raster strip, and the seamline polygon buffer were opened in Global Mapper software. To ensure that raster values are not automatically resampled in Global Mapper when performing the final export, the default raster interpolation option was changed to Nearest Neighbor (none) before any further processing was performed. The seamline polygon buffer was selected in Global Mapper and the raster strip was feathered by 8 pixels. This eliminated any hard edges that would

normally be produced by merging the two raster datasets. The two rasters were exported as one merged raster from Global Mapper using the following parameters:

File Type: ERDAS Imagine Image (IMG)
Cell Size: 1m x 1m
Data: 32-bit floating elevation
Create Compressed File (UNCHECKED)
Interpolate Gaps (CHECKED)

4. Initial QC of Exported DEM: The DEM was reopened in ESRI ArcGIS software and QC'd. Any alignment shifts, projection issues, or other problems were corrected as necessary.

CREATION OF VOID MASK

Areas would be considered voids if they are greater than 3 times the nominal post spacing (or resolution) of the source data. It was determined the value of 225 sq meters would be used for the project.

1. Generation of Data Extent: Masspoints containing LAS class codes 2, 22, and 25 were used to generate extent polygons in Arc with the aggregate point tool. Aggregation distance was set to 15m. Extents were generated to the DEM zone boundary to prevent excessive voids along the project boundary.
2. Buffer: The resulting data extent was buffered by 1m. This prevents points on the edge of the extents from being included in the final void mask.
3. Symmetrical Difference: The buffered extent was inverted using the symmetrical difference tool in Arc. These areas represent the new initial data voids layer. Multipart features were exploded and area calculations were made on the resulting void polygons.
4. Void Mask: Void polygons smaller than 225 sq meters in area were removed. Voids resulting from poor LiDAR penetration, building footprints, or other topographic features were removed. An exception to this includes areas along the project boundary where a legitimate data void is present. Inland breaklines (lakes, ponds, streams) were converted to polygons and added to the void mask as necessary. The void mask was converted to raster format.
5. Extract Individual Tiles: Using a Dewberry proprietary tool, the final raster was clipped to the tile grid and QC'd to ensure tile boundaries are seamless.

DEM ANALYSIS

Dewberry utilized Global Mapper and ArcGIS software to review the cleanliness of the DEM products. The following observations were made regarding the final merged DEMs.

1. Seamlines and Smoothing: Smoothing was performed between the topographic-bathymetric data and the bathymetric-acoustic data in areas where an offset was visible. Smoothing was not performed between acoustic surveys.

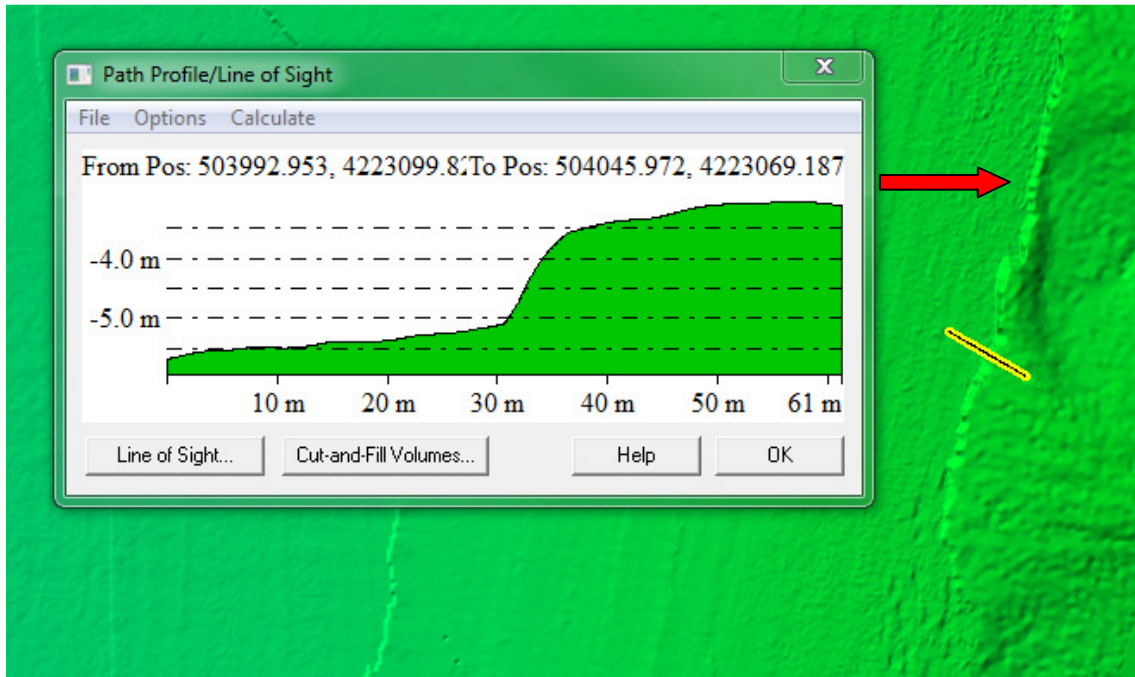


Figure 7: The best fit seamline between bathymetric and acoustic datasets results in approximately a 1.5 m vertical offset. This seamline is smoothed in the final DEM.

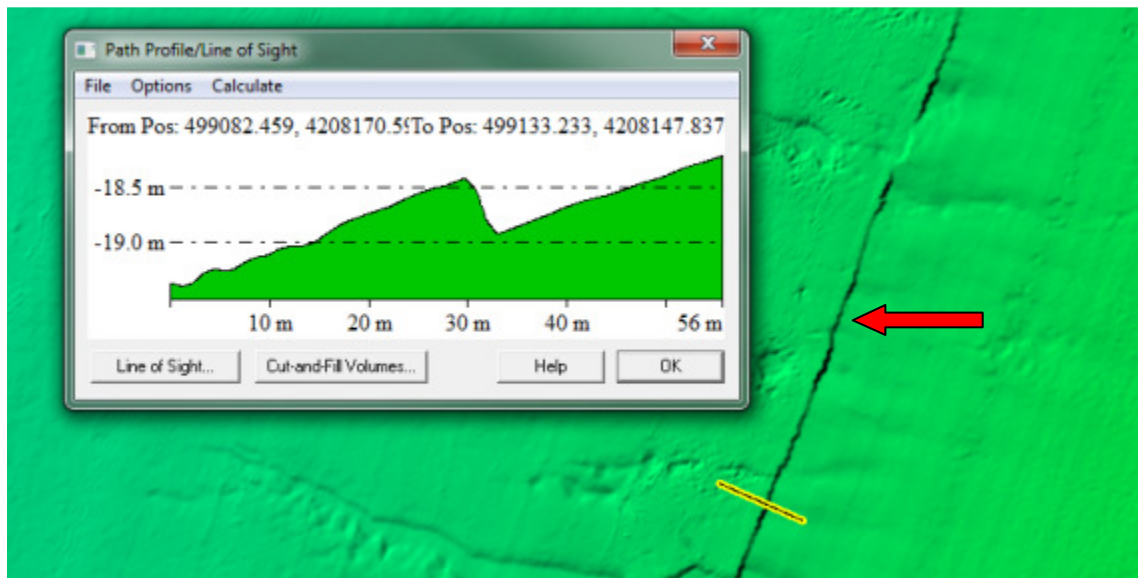


Figure 8: The best fit seamline between two acoustic datasets results in approximately a 0.5 m vertical offset. This seamline is not smoothed in the final DEM.

2. **Void Boundaries:** Final LAS class values of 2, 22, and 25 were used to create the void polygons. The final extents were buffered and inverted to create the new void mask. Review of the void mask showed that many of the narrower streams were not being correctly identified as voids. This resulted in some abrupt transitions between void and non-void areas. Breaklines were used to supplement the void layer in these areas.

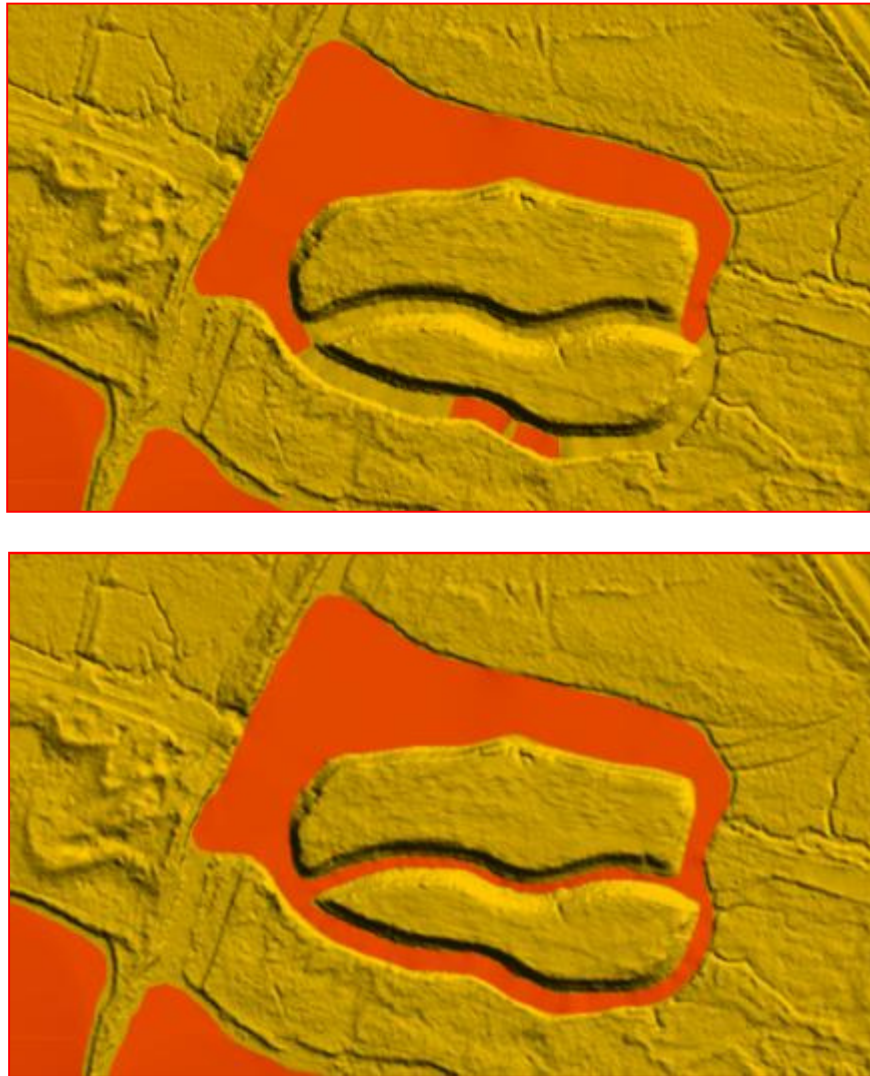


Figure 9: Top: Void Mask (red) after initial creation. Bottom: Void mask revised after reviewing for bathymetric data and incorporating the breaklines provided.

3. **Processing Artifacts:** In areas with large voids, Arc has a difficult time interpolating between available data points. Therefore, the resulting raster is produced with an assortment of processing artifacts in the void areas. These artifacts are not of concern in the DEM with voids since they are removed with the void mask. In the interpolated DEM, attempts were made to reduce the appearance of these artifacts. Smaller areas of processing artifacts still exist, but should not affect the overall usability of the DEM.

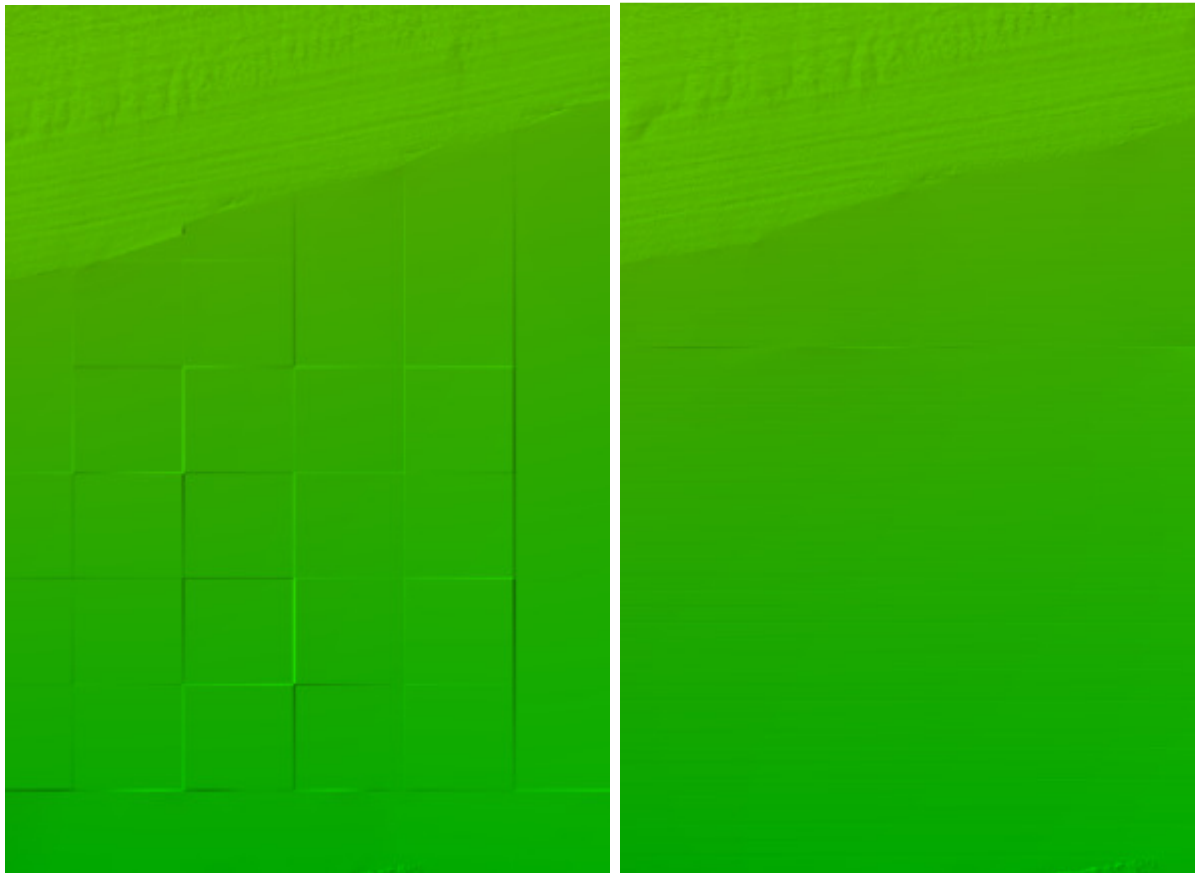


Figure 10: Left: Square processing artifacts emerge in areas of large voids when using ArcGIS Terrain to Raster tool. Right: Artifacts have been minimized by reprocessing the DEM in subsections in the affected area. Some processing artifacts still remain in the interpolated DEM, but have been minimalized as much as possible.

4. Artifacts Along Project Boundary: Along the topographic side of the project boundary, there are several areas where LAS points are not available. To prevent the inclusion of processing artifacts in the DEMs at the project boundary, the project boundary was buffered inside by 15m and the DEMs were clipped to the new boundary extent. Large voids along the boundary edge were also removed from the DEMs.

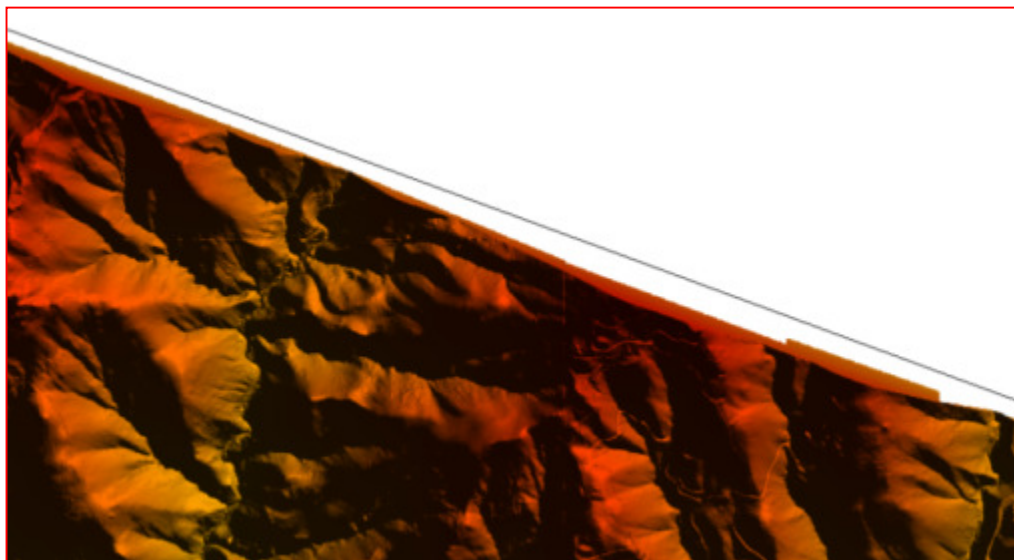


Figure 11: There is a visible gap between the project boundary (black line) and the topographic extent of the interpolated DEM. Because there are no data points in this area, interpolation does not extend to the project boundary and creates processing artifacts in the DEM. This area is clipped out for both DEM products.

DEM QUALITATIVE ASSESSMENT

Dewberry performed a comprehensive qualitative assessment of the DEM deliverables to ensure that all tiled DEM products were delivered with the proper extents, were free of processing artifacts, and contained the proper referencing information. Upon completion of this review the DEM data was loaded into Global Mapper to ensure that all files are readable and that no artifacts exist between tiles.

DEM QA/QC CHECKLIST

Project Number/Description: TO 11; NOAA Coastal California Data Merge Project

Date: 10/31/2013

QC

- Correct number of files
- ERDAS Imagine IMG format
- Verify projection/coordinate system (NAD83 NSRS2007 UTM Zone 10N/11N meters and NAVD88 Geoid09 meters)
- Verify correct cell size, type, number of rows and columns of pixels
- Verify raster spatial extent covers project tile grid
- Perform final overview in Arc and Global Mapper to ensure seamless product

Metadata

- Project level DEM metadata XML file is error free as determined by the USGS MP tool
- Metadata content contains sufficient detail and all pertinent information regarding source materials, projections, datums, processing steps, etc.

Completion Comments: Complete

Generation of the Vertical Accuracy Layer

The final confidence layer is comprised of two (2) products: a Vertical Accuracy Layer and a Void Mask. The process for creating the void mask has been described in the previous section of this project report. The following describes the process of creating the vertical accuracy layer.

Where accuracy is unavailable for the vertical accuracy layer, the resulting products contain “undefined” in the vector layer and -9999 in the raster layer. Voids within the vertical accuracy layer are removed in the vector layer and is symbolized as NoData in the raster layer. For the separate void mask, void areas have a value of 1 in the raster layer. All other areas were assigned a value of 0 if within the project boundary and NoData if outside the project boundary.

VECTOR LAYER

The seamlines generated between the topographic, bathymetric, and acoustic datasets were used to cut polygons from the DEM production boundaries. Each polygon was assigned a “Type” and “Accuracy” attribute using the information provided in the metadata.

The acoustic BAG data provided by NOAA’s National Geophysical Data Center (NGDC) contains a separate collection of ASCII point files where the elevations (z) are replaced with uncertainty (u) values per point (resulting in xyu files). These values represent uncertainties at MLLW. Using NOAA’s guide, *Estimation of Vertical Uncertainties in VDatum*, uncertainties were updated to reflect the transformation of the BAG data from MLLW to NAVD88 using the square root of the sum of the squares of the individual uncertainties. Accuracy values are generalized in the vector data for ease of display and the min-max uncertainty values per BAG survey are attributed accordingly.

RASTER LAYER

Acoustic BAG uncertainty data was reclassified using the same extents used to classify the BAG elevation data. Cell sizes and values for each resolution were designated based on initial acoustic resolutions, i.e an LAS point with an uncertainty of 25cm in the 4m resolution extent would result in a 4m x 4m cell with a value of 0.25m. Cell sizes less than 1m were resampled to 1m resolution using mean cell assignment. Acoustic rasters were mosaicked together to 1m cell size.

Topographic and bathymetric polygons generated from the vertical accuracy vector layer were converted to 1m cell size rasters using the polygon to raster tool in Arc. These rasters were mosaicked with the final vertical accuracy raster.

Any NoData cells that existed between or within resolutions were filled in using focal statistics, neighborhood mean method using a 15m radius. Values of -9999 were treated as NoData to avoid being incorporated into mean calculations.

Appendix A

PRODUCTION BLOCK 1A

The 712 tiles delivered with production block 1a are listed below. Sixteen (16) tiles highlighted in yellow have DEMs, but do not have a corresponding LAS tile due to data voids:

| | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 11SMR815985 | 11SMS395930 | 11SMS455960 | 11SMS530795 | 11SMS575825 | 11SMS635600 |
| 11SMR830985 | 11SMS395945 | 11SMS470840 | 11SMS530810 | 11SMS575840 | 11SMS635615 |
| 11SMR845985 | 11SMS395960 | 11SMS470855 | 11SMS530825 | 11SMS590675 | 11SMS635630 |
| 11SMR860985 | 11SMS395975 | 11SMS470870 | 11SMS530840 | 11SMS590690 | 11SMS635645 |
| 11SMR875985 | 11SMS395990 | 11SMS470885 | 11SMS530855 | 11SMS590705 | 11SMS635660 |
| 11SMR890985 | 11SMS410885 | 11SMS470900 | 11SMS530870 | 11SMS590720 | 11SMS635675 |
| 11SMR905985 | 11SMS410900 | 11SMS470915 | 11SMS530885 | 11SMS590735 | 11SMS635690 |
| 11SMR920985 | 11SMS410915 | 11SMS470930 | 11SMS545735 | 11SMS590750 | 11SMS635705 |
| 11SMS290975 | 11SMS410930 | 11SMS470945 | 11SMS545750 | 11SMS590765 | 11SMS635720 |
| 11SMS290990 | 11SMS410945 | 11SMS485825 | 11SMS545765 | 11SMS590780 | 11SMS635735 |
| 11SMS305960 | 11SMS410960 | 11SMS485840 | 11SMS545780 | 11SMS590795 | 11SMS635750 |
| 11SMS305975 | 11SMS410975 | 11SMS485855 | 11SMS545795 | 11SMS590810 | 11SMS635765 |
| 11SMS305990 | 11SMS410990 | 11SMS485870 | 11SMS545810 | 11SMS590825 | 11SMS635780 |
| 11SMS320960 | 11SMS425870 | 11SMS485885 | 11SMS545825 | 11SMS605660 | 11SMS635795 |
| 11SMS320975 | 11SMS425885 | 11SMS485900 | 11SMS545840 | 11SMS605675 | 11SMS635810 |
| 11SMS320990 | 11SMS425900 | 11SMS485915 | 11SMS545855 | 11SMS605690 | 11SMS635825 |
| 11SMS335960 | 11SMS425915 | 11SMS485930 | 11SMS545870 | 11SMS605705 | 11SMS650555 |
| 11SMS335975 | 11SMS425930 | 11SMS500810 | 11SMS560705 | 11SMS605720 | 11SMS650570 |
| 11SMS335990 | 11SMS425945 | 11SMS500825 | 11SMS560720 | 11SMS605735 | 11SMS650585 |
| 11SMS350945 | 11SMS425960 | 11SMS500840 | 11SMS560735 | 11SMS605750 | 11SMS650600 |
| 11SMS350960 | 11SMS425975 | 11SMS500855 | 11SMS560750 | 11SMS605765 | 11SMS650615 |
| 11SMS350975 | 11SMS425990 | 11SMS500870 | 11SMS560765 | 11SMS605780 | 11SMS650630 |
| 11SMS350990 | 11SMS440870 | 11SMS500885 | 11SMS560780 | 11SMS605795 | 11SMS650645 |
| 11SMS365930 | 11SMS440885 | 11SMS500900 | 11SMS560795 | 11SMS605810 | 11SMS650660 |
| 11SMS365945 | 11SMS440900 | 11SMS500915 | 11SMS560810 | 11SMS620630 | 11SMS650675 |
| 11SMS365960 | 11SMS440915 | 11SMS500930 | 11SMS560825 | 11SMS620645 | 11SMS650690 |
| 11SMS365975 | 11SMS440930 | 11SMS515780 | 11SMS560840 | 11SMS620660 | 11SMS650705 |
| 11SMS365990 | 11SMS440945 | 11SMS515795 | 11SMS560855 | 11SMS620675 | 11SMS650720 |
| 11SMS380915 | 11SMS440960 | 11SMS515810 | 11SMS575690 | 11SMS620690 | 11SMS650735 |
| 11SMS380930 | 11SMS440975 | 11SMS515825 | 11SMS575705 | 11SMS620705 | 11SMS650750 |
| 11SMS380945 | 11SMS455855 | 11SMS515840 | 11SMS575720 | 11SMS620720 | 11SMS650765 |
| 11SMS380960 | 11SMS455870 | 11SMS515855 | 11SMS575735 | 11SMS620735 | 11SMS650780 |
| 11SMS380975 | 11SMS455885 | 11SMS515870 | 11SMS575750 | 11SMS620750 | 11SMS650795 |
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| 11SMS395900 | 11SMS455930 | 11SMS530765 | 11SMS575795 | 11SMS620795 | 11SMS665315 |
| 11SMS395915 | 11SMS455945 | 11SMS530780 | 11SMS575810 | 11SMS620810 | 11SMS665330 |

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| | | | | | |
|--------------------|-------------|-------------|-------------|-------------|--------------------|
| 11SMS665345 | 11SMS680630 | 11SMS695630 | 11SMS710615 | 11SMS725615 | 11SMS755120 |
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| 11SMS665525 | 11SMS680660 | 11SMS695660 | 11SMS710645 | 11SMS725660 | 11SMS755150 |
| 11SMS665540 | 11SMS680675 | 11SMS695675 | 11SMS710660 | 11SMS725675 | 11SMS755165 |
| 11SMS665555 | 11SMS680690 | 11SMS695690 | 11SMS710675 | 11SMS725690 | 11SMS755180 |
| 11SMS665570 | 11SMS680705 | 11SMS695705 | 11SMS710690 | 11SMS740075 | 11SMS755195 |
| 11SMS665585 | 11SMS680720 | 11SMS695720 | 11SMS710705 | 11SMS740090 | 11SMS755210 |
| 11SMS665600 | 11SMS680735 | 11SMS695735 | 11SMS725090 | 11SMS740105 | 11SMS755225 |
| 11SMS665615 | 11SMS680750 | 11SMS710105 | 11SMS725105 | 11SMS740120 | 11SMS755240 |
| 11SMS665630 | 11SMS680765 | 11SMS710120 | 11SMS725120 | 11SMS740135 | 11SMS755255 |
| 11SMS665645 | 11SMS695150 | 11SMS710135 | 11SMS725135 | 11SMS740150 | 11SMS755270 |
| 11SMS665660 | 11SMS695165 | 11SMS710150 | 11SMS725150 | 11SMS740165 | 11SMS755285 |
| 11SMS665675 | 11SMS695180 | 11SMS710165 | 11SMS725165 | 11SMS740180 | 11SMS755300 |
| 11SMS665690 | 11SMS695195 | 11SMS710180 | 11SMS725180 | 11SMS740195 | 11SMS755315 |
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| 11SMS665720 | 11SMS695225 | 11SMS710210 | 11SMS725210 | 11SMS740225 | 11SMS755345 |
| 11SMS665735 | 11SMS695240 | 11SMS710225 | 11SMS725225 | 11SMS740240 | 11SMS755360 |
| 11SMS665750 | 11SMS695255 | 11SMS710240 | 11SMS725240 | 11SMS740255 | 11SMS755375 |
| 11SMS665765 | 11SMS695270 | 11SMS710255 | 11SMS725255 | 11SMS740270 | 11SMS755390 |
| 11SMS665780 | 11SMS695285 | 11SMS710270 | 11SMS725270 | 11SMS740285 | 11SMS755405 |
| 11SMS665795 | 11SMS695300 | 11SMS710285 | 11SMS725285 | 11SMS740300 | 11SMS755420 |
| 11SMS665810 | 11SMS695315 | 11SMS710300 | 11SMS725300 | 11SMS740315 | 11SMS755435 |
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| 11SMS680315 | 11SMS695375 | 11SMS710360 | 11SMS725360 | 11SMS740375 | 11SMS755495 |
| 11SMS680330 | 11SMS695390 | 11SMS710375 | 11SMS725375 | 11SMS740390 | 11SMS755510 |
| 11SMS680345 | 11SMS695405 | 11SMS710390 | 11SMS725390 | 11SMS740405 | 11SMS755525 |
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| 11SMS680480 | 11SMS695480 | 11SMS710465 | 11SMS725465 | 11SMS740480 | 11SMS770075 |
| 11SMS680495 | 11SMS695495 | 11SMS710480 | 11SMS725480 | 11SMS740495 | 11SMS770090 |
| 11SMS680510 | 11SMS695510 | 11SMS710495 | 11SMS725495 | 11SMS740510 | 11SMS770105 |
| 11SMS680525 | 11SMS695525 | 11SMS710510 | 11SMS725510 | 11SMS740525 | 11SMS770120 |
| 11SMS680540 | 11SMS695540 | 11SMS710525 | 11SMS725525 | 11SMS740540 | 11SMS770135 |
| 11SMS680555 | 11SMS695555 | 11SMS710540 | 11SMS725540 | 11SMS740600 | 11SMS770150 |
| 11SMS680570 | 11SMS695570 | 11SMS710555 | 11SMS725555 | 11SMS740615 | 11SMS770165 |
| 11SMS680585 | 11SMS695585 | 11SMS710570 | 11SMS725570 | 11SMS755075 | 11SMS770180 |
| 11SMS680600 | 11SMS695600 | 11SMS710585 | 11SMS725585 | 11SMS755090 | 11SMS770195 |
| 11SMS680615 | 11SMS695615 | 11SMS710600 | 11SMS725600 | 11SMS755105 | 11SMS770210 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
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| 11SMS770255 | 11SMS785420 | 11SMS815150 | 11SMS845120 | 11SMS890030 | 11SMS935090 |
| 11SMS770270 | 11SMS785435 | 11SMS815165 | 11SMS845135 | 11SMS890045 | 11SMS935105 |
| 11SMS770285 | 11SMS785465 | 11SMS815180 | 11SMS845150 | 11SMS890060 | 11SMS935120 |
| 11SMS770300 | 11SMS785480 | 11SMS815195 | 11SMS845165 | 11SMS890075 | 11SMS935135 |
| 11SMS770345 | 11SMS785495 | 11SMS815210 | 11SMS845180 | 11SMS890090 | 11SMS950000 |
| 11SMS770360 | 11SMS785510 | 11SMS815225 | 11SMS845195 | 11SMS890105 | 11SMS950015 |
| 11SMS770375 | 11SMS785525 | 11SMS815240 | 11SMS845240 | 11SMS890120 | 11SMS950045 |
| 11SMS770390 | 11SMS785540 | 11SMS815255 | 11SMS845255 | 11SMS890135 | 11SMS950120 |
| 11SMS770405 | 11SMS785555 | 11SMS815270 | 11SMS860000 | 11SMS890150 | 11SMS950135 |
| 11SMS770420 | 11SMS800075 | 11SMS815465 | 11SMS860015 | 11SMS890165 | 11SMT275005 |
| 11SMS770435 | 11SMS800090 | 11SMS815480 | 11SMS860030 | 11SMS890180 | 11SMT290005 |
| 11SMS770450 | 11SMS800105 | 11SMS815495 | 11SMS860045 | 11SMS905000 | 11SMT290020 |
| 11SMS770465 | 11SMS800120 | 11SMS815510 | 11SMS860060 | 11SMS905015 | 11SMT305005 |
| 11SMS770480 | 11SMS800135 | 11SMS830000 | 11SMS860075 | 11SMS905030 | 11SMT305020 |
| 11SMS770495 | 11SMS800150 | 11SMS830015 | 11SMS860090 | 11SMS905045 | 11SMT305035 |
| 11SMS770510 | 11SMS800165 | 11SMS830030 | 11SMS860105 | 11SMS905060 | 11SMT320005 |
| 11SMS770525 | 11SMS800180 | 11SMS830045 | 11SMS860120 | 11SMS905075 | 11SMT320020 |
| 11SMS770540 | 11SMS800195 | 11SMS830060 | 11SMS860135 | 11SMS905090 | 11SMT320035 |
| 11SMS770555 | 11SMS800210 | 11SMS830075 | 11SMS860150 | 11SMS905105 | 11SMT320050 |
| 11SMS770600 | 11SMS800225 | 11SMS830090 | 11SMS860165 | 11SMS905120 | 11SMT335005 |
| 11SMS770615 | 11SMS800240 | 11SMS830105 | 11SMS860180 | 11SMS905135 | 11SMT335020 |
| 11SMS785075 | 11SMS800255 | 11SMS830120 | 11SMS860195 | 11SMS905150 | 11SMT335035 |
| 11SMS785090 | 11SMS800270 | 11SMS830135 | 11SMS860240 | 11SMS905165 | 11SMT335050 |
| 11SMS785105 | 11SMS800285 | 11SMS830150 | 11SMS860255 | 11SMS905180 | 11SMT350005 |
| 11SMS785120 | 11SMS800300 | 11SMS830165 | 11SMS860270 | 11SMS920000 | 11SMT350020 |
| 11SMS785135 | 11SMS800315 | 11SMS830180 | 11SMS875000 | 11SMS920015 | 11SMT350035 |
| 11SMS785150 | 11SMS800465 | 11SMS830195 | 11SMS875015 | 11SMS920030 | 11SMT350050 |
| 11SMS785165 | 11SMS800480 | 11SMS830210 | 11SMS875030 | 11SMS920045 | 11SMT365005 |
| 11SMS785180 | 11SMS800495 | 11SMS830225 | 11SMS875045 | 11SMS920060 | 11SMT365020 |
| 11SMS785195 | 11SMS800510 | 11SMS830240 | 11SMS875060 | 11SMS920075 | 11SMT365035 |
| 11SMS785210 | 11SMS815000 | 11SMS830255 | 11SMS875075 | 11SMS920090 | 11SMT365050 |
| 11SMS785225 | 11SMS815015 | 11SMS830480 | 11SMS875090 | 11SMS920105 | 11SMT380005 |
| 11SMS785240 | 11SMS815030 | 11SMS845000 | 11SMS875105 | 11SMS920120 | 11SMT380020 |
| 11SMS785255 | 11SMS815045 | 11SMS845015 | 11SMS875120 | 11SMS920135 | 11SMT395005 |
| 11SMS785270 | 11SMS815060 | 11SMS845030 | 11SMS875135 | 11SMS935000 | 11SMT395020 |
| 11SMS785285 | 11SMS815075 | 11SMS845045 | 11SMS875150 | 11SMS935015 | 11SMT410005 |
| 11SMS785300 | 11SMS815090 | 11SMS845060 | 11SMS875165 | 11SMS935030 | |
| 11SMS785315 | 11SMS815105 | 11SMS845075 | 11SMS875180 | 11SMS935045 | |

PRODUCTION BLOCK 1B

The 1236 tiles delivered with production block 1b are listed below. Two (2) tiles highlighted in yellow do not have a corresponding LAS tile due to data voids:

| | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 11SKT730965 | 11SKT835920 | 11SKT880965 | 11SKT925890 | 11SKT970830 | 11SLT000740 |
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| 11SKT730995 | 11SKT835950 | 11SKT895785 | 11SKT925920 | 11SKT970860 | 11SLT000770 |
| 11SKT745950 | 11SKT835965 | 11SKT895800 | 11SKT925935 | 11SKT985695 | 11SLT000785 |
| 11SKT745965 | 11SKT835980 | 11SKT895815 | 11SKT940740 | 11SKT985710 | 11SLT000800 |
| 11SKT745980 | 11SKT835995 | 11SKT895830 | 11SKT940755 | 11SKT985725 | 11SLT000815 |
| 11SKT745995 | 11SKT850860 | 11SKT895845 | 11SKT940770 | 11SKT985740 | 11SLT000830 |
| 11SKT760950 | 11SKT850875 | 11SKT895860 | 11SKT940785 | 11SKT985755 | 11SLT015680 |
| 11SKT760965 | 11SKT850890 | 11SKT895875 | 11SKT940800 | 11SKT985770 | 11SLT015695 |
| 11SKT760980 | 11SKT850905 | 11SKT895890 | 11SKT940815 | 11SKT985785 | 11SLT015710 |
| 11SKT760995 | 11SKT850920 | 11SKT895905 | 11SKT940830 | 11SKT985800 | 11SLT015725 |
| 11SKT775935 | 11SKT850935 | 11SKT895920 | 11SKT940845 | 11SKT985815 | 11SLT015740 |
| 11SKT775950 | 11SKT850950 | 11SKT895935 | 11SKT940860 | 11SKT985830 | 11SLT015755 |
| 11SKT775965 | 11SKT850965 | 11SKT895950 | 11SKT940875 | 11SKT985845 | 11SLT015770 |
| 11SKT775980 | 11SKT850980 | 11SKT910755 | 11SKT940890 | 11SKU730010 | 11SLT015785 |
| 11SKT775995 | 11SKT865830 | 11SKT910770 | 11SKT940905 | 11SKU730025 | 11SLT015800 |
| 11SKT790920 | 11SKT865845 | 11SKT910785 | 11SKT940920 | 11SKU730040 | 11SLT015815 |
| 11SKT790935 | 11SKT865860 | 11SKT910800 | 11SKT955725 | 11SKU730055 | 11SLT015830 |
| 11SKT790950 | 11SKT865875 | 11SKT910815 | 11SKT955740 | 11SKU730070 | 11SLT030680 |
| 11SKT790965 | 11SKT865890 | 11SKT910830 | 11SKT955755 | 11SKU745010 | 11SLT030695 |
| 11SKT790980 | 11SKT865905 | 11SKT910845 | 11SKT955770 | 11SKU745025 | 11SLT030710 |
| 11SKT790995 | 11SKT865920 | 11SKT910860 | 11SKT955785 | 11SKU745040 | 11SLT030725 |
| 11SKT805905 | 11SKT865935 | 11SKT910875 | 11SKT955800 | 11SKU745055 | 11SLT030740 |
| 11SKT805920 | 11SKT865950 | 11SKT910890 | 11SKT955815 | 11SKU745070 | 11SLT030755 |
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| 11SKT805950 | 11SKT865980 | 11SKT910920 | 11SKT955845 | 11SKU760025 | 11SLT030785 |
| 11SKT805965 | 11SKT880785 | 11SKT910935 | 11SKT955860 | 11SKU760040 | 11SLT030800 |
| 11SKT805980 | 11SKT880800 | 11SKT910950 | 11SKT955875 | 11SKU760055 | 11SLT030815 |
| 11SKT805995 | 11SKT880815 | 11SKT925740 | 11SKT955890 | 11SKU775010 | 11SLT030830 |
| 11SKT820905 | 11SKT880830 | 11SKT925755 | 11SKT955905 | 11SKU775025 | 11SLT030845 |
| 11SKT820920 | 11SKT880845 | 11SKT925770 | 11SKT970710 | 11SKU775040 | 11SLT045680 |
| 11SKT820935 | 11SKT880860 | 11SKT925785 | 11SKT970725 | 11SKU790010 | 11SLT045695 |
| 11SKT820950 | 11SKT880875 | 11SKT925800 | 11SKT970740 | 11SKU790025 | 11SLT045710 |
| 11SKT820965 | 11SKT880890 | 11SKT925815 | 11SKT970755 | 11SKU805010 | 11SLT045725 |
| 11SKT820980 | 11SKT880905 | 11SKT925830 | 11SKT970770 | 11SKU820010 | 11SLT045740 |
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| 11SKT835890 | 11SKT880935 | 11SKT925860 | 11SKT970800 | 11SLT000710 | 11SLT045770 |
| 11SKT835905 | 11SKT880950 | 11SKT925875 | 11SKT970815 | 11SLT000725 | 11SLT045785 |

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| | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 11SLT045800 | 11SLT090845 | 11SLT165695 | 11SLT255695 | 11SLT345620 | 11SLT435665 |
| 11SLT045815 | 11SLT105650 | 11SLT165710 | 11SLT270590 | 11SLT345635 | 11SLT435680 |
| 11SLT045830 | 11SLT105665 | 11SLT165725 | 11SLT270605 | 11SLT345650 | 11SLT450605 |
| 11SLT045845 | 11SLT105680 | 11SLT180620 | 11SLT270620 | 11SLT345665 | 11SLT450620 |
| 11SLT060680 | 11SLT105695 | 11SLT180635 | 11SLT270635 | 11SLT360575 | 11SLT450635 |
| 11SLT060695 | 11SLT105710 | 11SLT180650 | 11SLT270650 | 11SLT360590 | 11SLT450650 |
| 11SLT060710 | 11SLT105725 | 11SLT180665 | 11SLT270665 | 11SLT360605 | 11SLT450665 |
| 11SLT060725 | 11SLT105740 | 11SLT180680 | 11SLT270680 | 11SLT360620 | 11SLT450680 |
| 11SLT060740 | 11SLT105770 | 11SLT180695 | 11SLT285575 | 11SLT360635 | 11SLT465605 |
| 11SLT060755 | 11SLT105785 | 11SLT180710 | 11SLT285590 | 11SLT360650 | 11SLT465620 |
| 11SLT060770 | 11SLT105800 | 11SLT195620 | 11SLT285605 | 11SLT360665 | 11SLT465635 |
| 11SLT060785 | 11SLT105815 | 11SLT195635 | 11SLT285620 | 11SLT360680 | 11SLT465650 |
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| 11SLT060815 | 11SLT120650 | 11SLT195665 | 11SLT285650 | 11SLT375605 | 11SLT465680 |
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| 11SLT090680 | 11SLT150635 | 11SLT240620 | 11SLT315665 | 11SLT405680 | 11SLT510665 |
| 11SLT090695 | 11SLT150650 | 11SLT240635 | 11SLT330575 | 11SLT420605 | 11SLT510680 |
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| 11SLT090740 | 11SLT150695 | 11SLT240680 | 11SLT330620 | 11SLT420650 | 11SLT525635 |
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| 11SLT540665 | 11SLT615500 | 11SLT645425 | 11SLT675275 | 11SLT690515 | 11SLT720650 |
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| 11SLT570635 | 11SLT630320 | 11SLT645605 | 11SLT675455 | 11SLT705380 | 11SLT750275 |
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| 11SLT570665 | 11SLT630350 | 11SLT645635 | 11SLT675485 | 11SLT705410 | 11SLT750305 |
| 11SLT570680 | 11SLT630365 | 11SLT660275 | 11SLT675500 | 11SLT705425 | 11SLT750320 |
| 11SLT585560 | 11SLT630380 | 11SLT660290 | 11SLT675515 | 11SLT705440 | 11SLT750335 |
| 11SLT585575 | 11SLT630395 | 11SLT660305 | 11SLT675530 | 11SLT705455 | 11SLT750485 |
| 11SLT585590 | 11SLT630410 | 11SLT660320 | 11SLT675545 | 11SLT705470 | 11SLT750500 |
| 11SLT585605 | 11SLT630425 | 11SLT660335 | 11SLT675560 | 11SLT705485 | 11SLT750515 |
| 11SLT585620 | 11SLT630470 | 11SLT660350 | 11SLT675575 | 11SLT705500 | 11SLT765245 |
| 11SLT585635 | 11SLT630485 | 11SLT660365 | 11SLT675590 | 11SLT705590 | 11SLT765260 |
| 11SLT585650 | 11SLT630500 | 11SLT660380 | 11SLT675605 | 11SLT705605 | 11SLT765275 |
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| 11SLT585680 | 11SLT630530 | 11SLT660410 | 11SLT675635 | 11SLT705635 | 11SLT765305 |
| 11SLT600530 | 11SLT630545 | 11SLT660425 | 11SLT690275 | 11SLT705650 | 11SLT765320 |
| 11SLT600545 | 11SLT630560 | 11SLT660440 | 11SLT690290 | 11SLT720260 | 11SLT765335 |
| 11SLT600560 | 11SLT630575 | 11SLT660455 | 11SLT690305 | 11SLT720275 | 11SLT765470 |
| 11SLT600575 | 11SLT630590 | 11SLT660470 | 11SLT690320 | 11SLT720290 | 11SLT765485 |
| 11SLT600590 | 11SLT630605 | 11SLT660485 | 11SLT690335 | 11SLT720305 | 11SLT765500 |
| 11SLT600605 | 11SLT630620 | 11SLT660500 | 11SLT690350 | 11SLT720320 | 11SLT765515 |
| 11SLT600620 | 11SLT630635 | 11SLT660515 | 11SLT690365 | 11SLT720335 | 11SLT780245 |
| 11SLT600635 | 11SLT645290 | 11SLT660530 | 11SLT690380 | 11SLT720350 | 11SLT780260 |
| 11SLT600650 | 11SLT645305 | 11SLT660545 | 11SLT690395 | 11SLT720410 | 11SLT780275 |
| 11SLT600665 | 11SLT645320 | 11SLT660560 | 11SLT690410 | 11SLT720425 | 11SLT780290 |
| 11SLT615335 | 11SLT645335 | 11SLT660575 | 11SLT690425 | 11SLT720440 | 11SLT780305 |
| 11SLT615350 | 11SLT645350 | 11SLT660590 | 11SLT690440 | 11SLT720455 | 11SLT780320 |
| 11SLT615365 | 11SLT645365 | 11SLT660605 | 11SLT690455 | 11SLT720590 | 11SLT780335 |
| 11SLT615380 | 11SLT645380 | 11SLT660620 | 11SLT690470 | 11SLT720605 | 11SLT780350 |
| 11SLT615395 | 11SLT645395 | 11SLT660635 | 11SLT690485 | 11SLT720620 | 11SLT780365 |

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| 11SLT780380 | 11SLT810440 | 11SLT855260 | 11SLT885410 | 11SLT930440 | 11SLT975425 |
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| 11SLT810335 | 11SLT840410 | 11SLT885305 | 11SLT930335 | 11SLT975320 | 11SMT005425 |
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| 11SLT810380 | 11SLT840455 | 11SLT885350 | 11SLT930380 | 11SLT975365 | 11SMT020185 |
| 11SLT810395 | 11SLT840470 | 11SLT885365 | 11SLT930395 | 11SLT975380 | 11SMT020200 |
| 11SLT810410 | 11SLT840485 | 11SLT885380 | 11SLT930410 | 11SLT975395 | 11SMT020215 |
| 11SLT810425 | 11SLT855245 | 11SLT885395 | 11SLT930425 | 11SLT975410 | 11SMT020230 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
| 11SMT020245 | 11SMT050200 | 11SMT080230 | 11SMT125125 | 11SMT155275 | 11SMT200215 |
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| 11SMT020275 | 11SMT050230 | 11SMT080260 | 11SMT125155 | 11SMT155305 | 11SMT200245 |
| 11SMT020290 | 11SMT050245 | 11SMT080275 | 11SMT125170 | 11SMT170095 | 11SMT200260 |
| 11SMT020305 | 11SMT050260 | 11SMT080290 | 11SMT125185 | 11SMT170110 | 11SMT200275 |
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| 11SMT020395 | 11SMT050350 | 11SMT095140 | 11SMT125275 | 11SMT170200 | 11SMT215125 |
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| 11SMT020425 | 11SMT050380 | 11SMT095170 | 11SMT125305 | 11SMT170230 | 11SMT215155 |
| 11SMT020440 | 11SMT050395 | 11SMT095185 | 11SMT125320 | 11SMT170245 | 11SMT215215 |
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| 11SMT020470 | 11SMT050425 | 11SMT095215 | 11SMT140110 | 11SMT170275 | 11SMT215245 |
| 11SMT020485 | 11SMT050470 | 11SMT095230 | 11SMT140125 | 11SMT170290 | 11SMT215260 |
| 11SMT035185 | 11SMT050485 | 11SMT095245 | 11SMT140140 | 11SMT170305 | 11SMT215275 |
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| 11SMT035260 | 11SMT065215 | 11SMT095320 | 11SMT140215 | 11SMT185140 | 11SMT230110 |
| 11SMT035275 | 11SMT065230 | 11SMT095335 | 11SMT140230 | 11SMT185155 | 11SMT230125 |
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| 11SMT035320 | 11SMT065275 | 11SMT110140 | 11SMT140275 | 11SMT185200 | 11SMT230230 |
| 11SMT035335 | 11SMT065290 | 11SMT110155 | 11SMT140290 | 11SMT185215 | 11SMT230245 |
| 11SMT035350 | 11SMT065305 | 11SMT110170 | 11SMT140305 | 11SMT185230 | 11SMT230260 |
| 11SMT035365 | 11SMT065320 | 11SMT110185 | 11SMT140320 | 11SMT185245 | 11SMT230275 |
| 11SMT035380 | 11SMT065335 | 11SMT110200 | 11SMT155110 | 11SMT185260 | 11SMT245035 |
| 11SMT035395 | 11SMT065350 | 11SMT110215 | 11SMT155125 | 11SMT185275 | 11SMT245050 |
| 11SMT035410 | 11SMT065365 | 11SMT110230 | 11SMT155140 | 11SMT185290 | 11SMT245065 |
| 11SMT035425 | 11SMT065380 | 11SMT110245 | 11SMT155155 | 11SMT200065 | 11SMT245080 |
| 11SMT035440 | 11SMT065395 | 11SMT110260 | 11SMT155170 | 11SMT200080 | 11SMT245095 |
| 11SMT035455 | 11SMT080140 | 11SMT110275 | 11SMT155185 | 11SMT200095 | 11SMT245110 |
| 11SMT035470 | 11SMT080155 | 11SMT110290 | 11SMT155200 | 11SMT200110 | 11SMT245125 |
| 11SMT035485 | 11SMT080170 | 11SMT110305 | 11SMT155215 | 11SMT200125 | 11SMT245140 |
| 11SMT035500 | 11SMT080185 | 11SMT110320 | 11SMT155230 | 11SMT200140 | 11SMT260020 |
| 11SMT050170 | 11SMT080200 | 11SMT110335 | 11SMT155245 | 11SMT200155 | 11SMT260035 |
| 11SMT050185 | 11SMT080215 | 11SMT110350 | 11SMT155260 | 11SMT200170 | 11SMT260050 |

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| 11SMT260065 | 11SMT260125 | 11SMT275065 | 11SMT275125 | 11SMT290080 | 11SMT305065 |
| 11SMT260080 | 11SMT275020 | 11SMT275080 | 11SMT290035 | 11SMT290095 | 11SMT305080 |
| 11SMT260095 | 11SMT275035 | 11SMT275095 | 11SMT290050 | 11SMT290110 | 11SMT305095 |
| 11SMT260110 | 11SMT275050 | 11SMT275110 | 11SMT290065 | 11SMT305050 | 11SMT320065 |

PRODUCTION BLOCK 2A

The 226 tiles delivered with production block 2a are listed below.

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|-------------|-------------|-------------|-------------|-------------|-------------|
| 11SKT700995 | 11SKU325100 | 11SKU400040 | 11SKU475055 | 11SKU550100 | 11SKU640070 |
| 11SKT715980 | 11SKU325115 | 11SKU400055 | 11SKU475070 | 11SKU550115 | 11SKU640085 |
| 11SKT715995 | 11SKU325130 | 11SKU400070 | 11SKU475085 | 11SKU550130 | 11SKU640100 |
| 11SKU250085 | 11SKU325145 | 11SKU400085 | 11SKU475100 | 11SKU565055 | 11SKU640115 |
| 11SKU250100 | 11SKU340040 | 11SKU400100 | 11SKU475115 | 11SKU565070 | 11SKU655025 |
| 11SKU250115 | 11SKU340055 | 11SKU400115 | 11SKU490025 | 11SKU565085 | 11SKU655040 |
| 11SKU250130 | 11SKU340070 | 11SKU400130 | 11SKU490040 | 11SKU565100 | 11SKU655055 |
| 11SKU250145 | 11SKU340085 | 11SKU400145 | 11SKU490055 | 11SKU565115 | 11SKU655070 |
| 11SKU250160 | 11SKU340100 | 11SKU415055 | 11SKU490070 | 11SKU565130 | 11SKU655085 |
| 11SKU250175 | 11SKU340115 | 11SKU415070 | 11SKU490085 | 11SKU580055 | 11SKU655100 |
| 11SKU265085 | 11SKU340130 | 11SKU415085 | 11SKU490100 | 11SKU580070 | 11SKU655115 |
| 11SKU265100 | 11SKU340145 | 11SKU415100 | 11SKU490115 | 11SKU580085 | 11SKU670010 |
| 11SKU265115 | 11SKU355040 | 11SKU415115 | 11SKU505025 | 11SKU580100 | 11SKU670025 |
| 11SKU265130 | 11SKU355055 | 11SKU415130 | 11SKU505040 | 11SKU580115 | 11SKU670040 |
| 11SKU265145 | 11SKU355070 | 11SKU415145 | 11SKU505055 | 11SKU580130 | 11SKU670055 |
| 11SKU265160 | 11SKU355085 | 11SKU430040 | 11SKU505070 | 11SKU595055 | 11SKU670070 |
| 11SKU280085 | 11SKU355100 | 11SKU430055 | 11SKU505085 | 11SKU595070 | 11SKU670085 |
| 11SKU280100 | 11SKU355115 | 11SKU430070 | 11SKU505100 | 11SKU595085 | 11SKU670100 |
| 11SKU280115 | 11SKU355130 | 11SKU430085 | 11SKU505115 | 11SKU595100 | 11SKU685010 |
| 11SKU280130 | 11SKU355145 | 11SKU430100 | 11SKU520025 | 11SKU595115 | 11SKU685025 |
| 11SKU280145 | 11SKU370040 | 11SKU430115 | 11SKU520040 | 11SKU595130 | 11SKU685040 |
| 11SKU280160 | 11SKU370055 | 11SKU430130 | 11SKU520055 | 11SKU610040 | 11SKU685055 |
| 11SKU295070 | 11SKU370070 | 11SKU445040 | 11SKU520070 | 11SKU610055 | 11SKU685070 |
| 11SKU295085 | 11SKU370085 | 11SKU445055 | 11SKU520085 | 11SKU610070 | 11SKU685085 |
| 11SKU295100 | 11SKU370100 | 11SKU445070 | 11SKU520100 | 11SKU610085 | 11SKU700010 |
| 11SKU295115 | 11SKU370115 | 11SKU445085 | 11SKU520115 | 11SKU610100 | 11SKU700025 |
| 11SKU295130 | 11SKU370130 | 11SKU445100 | 11SKU520130 | 11SKU610115 | 11SKU700040 |
| 11SKU295145 | 11SKU370145 | 11SKU445115 | 11SKU535040 | 11SKU610130 | 11SKU700055 |
| 11SKU310055 | 11SKU370160 | 11SKU445130 | 11SKU535055 | 11SKU625025 | 11SKU700070 |
| 11SKU310070 | 11SKU385040 | 11SKU460025 | 11SKU535070 | 11SKU625040 | 11SKU700085 |
| 11SKU310085 | 11SKU385055 | 11SKU460040 | 11SKU535085 | 11SKU625055 | 11SKU715010 |
| 11SKU310100 | 11SKU385070 | 11SKU460055 | 11SKU535100 | 11SKU625070 | 11SKU715025 |
| 11SKU310115 | 11SKU385085 | 11SKU460070 | 11SKU535115 | 11SKU625085 | 11SKU715040 |
| 11SKU310130 | 11SKU385100 | 11SKU460085 | 11SKU535130 | 11SKU625100 | 11SKU715055 |
| 11SKU310145 | 11SKU385115 | 11SKU460100 | 11SKU550040 | 11SKU625115 | 11SKU715070 |
| 11SKU325055 | 11SKU385130 | 11SKU460115 | 11SKU550055 | 11SKU640025 | 11SKU715085 |
| 11SKU325070 | 11SKU385145 | 11SKU475025 | 11SKU550070 | 11SKU640040 | |
| 11SKU325085 | 11SKU385160 | 11SKU475040 | 11SKU550085 | 11SKU640055 | |

PRODUCTION BLOCK 2B

The 2,310 tiles delivered with production block 2b are listed below.

| | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SEF595995 | 10SEF700950 | 10SEF775920 | 10SEF850485 | 10SEF865665 | 10SEF880635 |
| 10SEF610965 | 10SEF700965 | 10SEF790830 | 10SEF850500 | 10SEF865680 | 10SEF880650 |
| 10SEF610980 | 10SEF700980 | 10SEF790845 | 10SEF850515 | 10SEF865695 | 10SEF880665 |
| 10SEF610995 | 10SEF715860 | 10SEF790860 | 10SEF850665 | 10SEF865710 | 10SEF880680 |
| 10SEF625950 | 10SEF715875 | 10SEF790875 | 10SEF850680 | 10SEF865725 | 10SEF880695 |
| 10SEF625965 | 10SEF715890 | 10SEF790890 | 10SEF850695 | 10SEF865740 | 10SEF880710 |
| 10SEF625980 | 10SEF715905 | 10SEF790905 | 10SEF850710 | 10SEF865755 | 10SEF880725 |
| 10SEF625995 | 10SEF715920 | 10SEF790920 | 10SEF850725 | 10SEF865770 | 10SEF880740 |
| 10SEF640935 | 10SEF715935 | 10SEF805830 | 10SEF850740 | 10SEF865785 | 10SEF880755 |
| 10SEF640950 | 10SEF715950 | 10SEF805845 | 10SEF850755 | 10SEF865800 | 10SEF880770 |
| 10SEF640965 | 10SEF715965 | 10SEF805860 | 10SEF850770 | 10SEF865815 | 10SEF880785 |
| 10SEF640980 | 10SEF730860 | 10SEF805875 | 10SEF850785 | 10SEF865830 | 10SEF880800 |
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| 10SEF655920 | 10SEF730890 | 10SEF805905 | 10SEF850815 | 10SEF865860 | 10SEF880830 |
| 10SEF655935 | 10SEF730905 | 10SEF820785 | 10SEF850830 | 10SEF865875 | 10SEF880845 |
| 10SEF655950 | 10SEF730920 | 10SEF820800 | 10SEF850845 | 10SEF865890 | 10SEF880860 |
| 10SEF655965 | 10SEF730935 | 10SEF820815 | 10SEF850860 | 10SEF865905 | 10SEF880875 |
| 10SEF655980 | 10SEF730950 | 10SEF820830 | 10SEF850875 | 10SEF865920 | 10SEF880890 |
| 10SEF655995 | 10SEF730965 | 10SEF820845 | 10SEF850890 | 10SEF865935 | 10SEF880905 |
| 10SEF670905 | 10SEF745845 | 10SEF820860 | 10SEF850905 | 10SEF865950 | 10SEF880920 |
| 10SEF670920 | 10SEF745860 | 10SEF820875 | 10SEF850920 | 10SEF880350 | 10SEF880935 |
| 10SEF670935 | 10SEF745875 | 10SEF820890 | 10SEF850935 | 10SEF880365 | 10SEF880950 |
| 10SEF670950 | 10SEF745890 | 10SEF820905 | 10SEF850950 | 10SEF880380 | 10SEF895305 |
| 10SEF670965 | 10SEF745905 | 10SEF835725 | 10SEF850965 | 10SEF880395 | 10SEF895320 |
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| 10SEF685980 | 10SEF760920 | 10SEF835860 | 10SEF865515 | 10SEF880530 | 10SEF895455 |
| 10SEF685995 | 10SEF760935 | 10SEF835875 | 10SEF865530 | 10SEF880545 | 10SEF895470 |
| 10SEF700875 | 10SEF775845 | 10SEF835890 | 10SEF865545 | 10SEF880560 | 10SEF895485 |
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| 10SEF895605 | 10SEF910470 | 10SEF925260 | 10SEF925875 | 10SEF940650 | 10SEF955425 |
| 10SEF895620 | 10SEF910485 | 10SEF925275 | 10SEF925890 | 10SEF940665 | 10SEF955440 |
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| 10SEF970350 | 10SEF985170 | 10SEF985920 | 10SFD870955 | 10SFD975940 | 10SFE210945 |
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| 10SEF970425 | 10SEF985215 | 10SEG535025 | 10SFD885940 | 10SFD975985 | 10SFE210990 |
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| 10SGD500190 | 10SGD605160 | 10SGD695130 | |
| 10SGD515115 | 10SGD605175 | 10SGD695145 | |
| 10SGD515130 | 10SGD605190 | 10SGD695160 | |
| 10SGD515145 | 10SGD620115 | 10SGD695175 | |
| 10SGD515160 | 10SGD620130 | 10SGD710100 | |
| 10SGD515175 | 10SGD620145 | 10SGD710115 | |
| 10SGD530115 | 10SGD620160 | 10SGD710130 | |
| 10SGD530130 | 10SGD620175 | 10SGD710145 | |
| 10SGD530145 | 10SGD620190 | 10SGD710160 | |
| 10SGD530160 | 10SGD635115 | 10SGD710175 | |
| 10SGD530175 | 10SGD635130 | 10SGD725100 | |
| 10SGD545115 | 10SGD635145 | 10SGD725115 | |
| 10SGD545130 | 10SGD635160 | 10SGD725130 | |
| 10SGD545145 | 10SGD635175 | 10SGD725145 | |
| 10SGD545160 | 10SGD635190 | 10SGD725160 | |
| 10SGD545175 | 10SGD650100 | 10SGD725175 | |
| 10SGD560115 | 10SGD650115 | 10SGD740100 | |
| 10SGD560130 | 10SGD650130 | 10SGD740115 | |
| 10SGD560145 | 10SGD650145 | 10SGD740130 | |
| 10SGD560160 | 10SGD650160 | 10SGD740145 | |
| 10SGD560175 | 10SGD650175 | 10SGD740160 | |
| 10SGD575115 | 10SGD650190 | 10SGD740175 | |
| 10SGD575130 | 10SGD665100 | 10SGD755085 | |
| 10SGD575145 | 10SGD665115 | 10SGD755100 | |
| 10SGD575160 | 10SGD665130 | 10SGD755115 | |
| 10SGD575175 | 10SGD665145 | 10SGD755130 | |
| 10SGD575190 | 10SGD665160 | 10SGD755145 | |
| 10SGD590115 | 10SGD665175 | 10SGD755160 | |
| 10SGD590130 | 10SGD680100 | 10SGD755175 | |
| 10SGD590145 | 10SGD680115 | 10SGE005075 | |
| 10SGD590160 | 10SGD680130 | 10SGE005090 | |
| 10SGD590175 | 10SGD680145 | 10SGE005105 | |

PRODUCTION BLOCK 3

The 1,288 tiles delivered with production block 3 are listed below. Two (2) tiles highlighted in yellow do not have a corresponding LAS tile due to data voids:

| | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SDG950985 | 10SDH530855 | 10SDH590765 | 10SDH635750 | 10SDH695615 | 10SDH755615 |
| 10SDG965985 | 10SDH530870 | 10SDH590780 | 10SDH635765 | 10SDH695630 | 10SDH755630 |
| 10SDG980985 | 10SDH530885 | 10SDH590795 | 10SDH635780 | 10SDH695645 | 10SDH755645 |
| 10SDG995985 | 10SDH530900 | 10SDH590810 | 10SDH635795 | 10SDH695660 | 10SDH755660 |
| 10SDH425900 | 10SDH530915 | 10SDH590825 | 10SDH635810 | 10SDH695675 | 10SDH770555 |
| 10SDH425915 | 10SDH545795 | 10SDH590840 | 10SDH635825 | 10SDH695690 | 10SDH770570 |
| 10SDH440900 | 10SDH545810 | 10SDH590855 | 10SDH650645 | 10SDH695705 | 10SDH770585 |
| 10SDH440915 | 10SDH545825 | 10SDH590870 | 10SDH650660 | 10SDH695720 | 10SDH770600 |
| 10SDH455885 | 10SDH545840 | 10SDH590885 | 10SDH650675 | 10SDH695735 | 10SDH770615 |
| 10SDH455900 | 10SDH545855 | 10SDH590900 | 10SDH650690 | 10SDH710600 | 10SDH770630 |
| 10SDH455915 | 10SDH545870 | 10SDH605705 | 10SDH650705 | 10SDH710615 | 10SDH770645 |
| 10SDH470870 | 10SDH545885 | 10SDH605720 | 10SDH650720 | 10SDH710630 | 10SDH785540 |
| 10SDH470885 | 10SDH545900 | 10SDH605735 | 10SDH650735 | 10SDH710645 | 10SDH785555 |
| 10SDH470900 | 10SDH545915 | 10SDH605750 | 10SDH650750 | 10SDH710660 | 10SDH785570 |
| 10SDH470915 | 10SDH560780 | 10SDH605765 | 10SDH650765 | 10SDH710675 | 10SDH785585 |
| 10SDH485840 | 10SDH560795 | 10SDH605780 | 10SDH650780 | 10SDH710690 | 10SDH785600 |
| 10SDH485855 | 10SDH560810 | 10SDH605795 | 10SDH650795 | 10SDH710705 | 10SDH785615 |
| 10SDH485870 | 10SDH560825 | 10SDH605810 | 10SDH665630 | 10SDH725570 | 10SDH785630 |
| 10SDH485885 | 10SDH560840 | 10SDH605825 | 10SDH665645 | 10SDH725585 | 10SDH785645 |
| 10SDH485900 | 10SDH560855 | 10SDH605840 | 10SDH665660 | 10SDH725600 | 10SDH800525 |
| 10SDH485915 | 10SDH560870 | 10SDH605855 | 10SDH665675 | 10SDH725615 | 10SDH800540 |
| 10SDH500825 | 10SDH560885 | 10SDH605870 | 10SDH665690 | 10SDH725630 | 10SDH800555 |
| 10SDH500840 | 10SDH560900 | 10SDH620690 | 10SDH665705 | 10SDH725645 | 10SDH800570 |
| 10SDH500855 | 10SDH560915 | 10SDH620705 | 10SDH665720 | 10SDH725660 | 10SDH800585 |
| 10SDH500870 | 10SDH575750 | 10SDH620720 | 10SDH665735 | 10SDH725675 | 10SDH800600 |
| 10SDH500885 | 10SDH575765 | 10SDH620735 | 10SDH665750 | 10SDH725690 | 10SDH800615 |
| 10SDH500900 | 10SDH575780 | 10SDH620750 | 10SDH665765 | 10SDH740570 | 10SDH800630 |
| 10SDH500915 | 10SDH575795 | 10SDH620765 | 10SDH665780 | 10SDH740585 | 10SDH815510 |
| 10SDH515825 | 10SDH575810 | 10SDH620780 | 10SDH680615 | 10SDH740600 | 10SDH815525 |
| 10SDH515840 | 10SDH575825 | 10SDH620795 | 10SDH680630 | 10SDH740615 | 10SDH815540 |
| 10SDH515855 | 10SDH575840 | 10SDH620810 | 10SDH680645 | 10SDH740630 | 10SDH815555 |
| 10SDH515870 | 10SDH575855 | 10SDH620825 | 10SDH680660 | 10SDH740645 | 10SDH815570 |
| 10SDH515885 | 10SDH575870 | 10SDH620840 | 10SDH680675 | 10SDH740660 | 10SDH815585 |
| 10SDH515900 | 10SDH575885 | 10SDH635675 | 10SDH680690 | 10SDH740675 | 10SDH815600 |
| 10SDH515915 | 10SDH575900 | 10SDH635690 | 10SDH680705 | 10SDH755555 | 10SDH815615 |
| 10SDH530810 | 10SDH575915 | 10SDH635705 | 10SDH680720 | 10SDH755570 | 10SDH830495 |
| 10SDH530825 | 10SDH590735 | 10SDH635720 | 10SDH680735 | 10SDH755585 | 10SDH830510 |
| 10SDH530840 | 10SDH590750 | 10SDH635735 | 10SDH680750 | 10SDH755600 | 10SDH830525 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SDH830540 | 10SDH890360 | 10SDH920360 | 10SDH935555 | 10SDH965105 | 10SDH980195 |
| 10SDH830555 | 10SDH890375 | 10SDH920375 | 10SDH935570 | 10SDH965120 | 10SDH980210 |
| 10SDH830570 | 10SDH890390 | 10SDH920390 | 10SDH935585 | 10SDH965135 | 10SDH980225 |
| 10SDH830585 | 10SDH890405 | 10SDH920405 | 10SDH935600 | 10SDH965150 | 10SDH980240 |
| 10SDH830600 | 10SDH890420 | 10SDH920420 | 10SDH935615 | 10SDH965165 | 10SDH980255 |
| 10SDH845465 | 10SDH890435 | 10SDH920435 | 10SDH950000 | 10SDH965180 | 10SDH980270 |
| 10SDH845480 | 10SDH890450 | 10SDH920450 | 10SDH950015 | 10SDH965195 | 10SDH980285 |
| 10SDH845495 | 10SDH890465 | 10SDH920465 | 10SDH950030 | 10SDH965225 | 10SDH980300 |
| 10SDH845510 | 10SDH890480 | 10SDH920480 | 10SDH950045 | 10SDH965240 | 10SDH980315 |
| 10SDH845525 | 10SDH890495 | 10SDH920495 | 10SDH950060 | 10SDH965255 | 10SDH980330 |
| 10SDH845540 | 10SDH890510 | 10SDH920510 | 10SDH950075 | 10SDH965270 | 10SDH980345 |
| 10SDH845555 | 10SDH890525 | 10SDH920525 | 10SDH950090 | 10SDH965285 | 10SDH980360 |
| 10SDH845570 | 10SDH890540 | 10SDH920540 | 10SDH950105 | 10SDH965300 | 10SDH980375 |
| 10SDH845585 | 10SDH890555 | 10SDH920555 | 10SDH950120 | 10SDH965315 | 10SDH980390 |
| 10SDH845600 | 10SDH890570 | 10SDH920570 | 10SDH950135 | 10SDH965330 | 10SDH980405 |
| 10SDH860450 | 10SDH905330 | 10SDH920600 | 10SDH950150 | 10SDH965345 | 10SDH980420 |
| 10SDH860465 | 10SDH905345 | 10SDH920615 | 10SDH950270 | 10SDH965360 | 10SDH980435 |
| 10SDH860480 | 10SDH905360 | 10SDH935000 | 10SDH950285 | 10SDH965375 | 10SDH980450 |
| 10SDH860495 | 10SDH905375 | 10SDH935015 | 10SDH950300 | 10SDH965390 | 10SDH980540 |
| 10SDH860510 | 10SDH905390 | 10SDH935030 | 10SDH950315 | 10SDH965405 | 10SDH980555 |
| 10SDH860525 | 10SDH905405 | 10SDH935045 | 10SDH950330 | 10SDH965420 | 10SDH980570 |
| 10SDH860540 | 10SDH905420 | 10SDH935060 | 10SDH950345 | 10SDH965435 | 10SDH980585 |
| 10SDH860555 | 10SDH905435 | 10SDH935075 | 10SDH950360 | 10SDH965450 | 10SDH980600 |
| 10SDH860570 | 10SDH905450 | 10SDH935090 | 10SDH950375 | 10SDH965540 | 10SDH980615 |
| 10SDH860585 | 10SDH905465 | 10SDH935105 | 10SDH950390 | 10SDH965555 | 10SDH995000 |
| 10SDH875360 | 10SDH905480 | 10SDH935300 | 10SDH950405 | 10SDH965570 | 10SDH995015 |
| 10SDH875375 | 10SDH905495 | 10SDH935315 | 10SDH950420 | 10SDH965585 | 10SDH995030 |
| 10SDH875390 | 10SDH905510 | 10SDH935330 | 10SDH950435 | 10SDH965600 | 10SDH995045 |
| 10SDH875405 | 10SDH905525 | 10SDH935345 | 10SDH950450 | 10SDH980000 | 10SDH995060 |
| 10SDH875420 | 10SDH905540 | 10SDH935360 | 10SDH950540 | 10SDH980015 | 10SDH995075 |
| 10SDH875435 | 10SDH905555 | 10SDH935375 | 10SDH950555 | 10SDH980030 | 10SDH995090 |
| 10SDH875450 | 10SDH905570 | 10SDH935390 | 10SDH950570 | 10SDH980045 | 10SDH995105 |
| 10SDH875465 | 10SDH920015 | 10SDH935405 | 10SDH950585 | 10SDH980060 | 10SDH995120 |
| 10SDH875480 | 10SDH920030 | 10SDH935420 | 10SDH950600 | 10SDH980075 | 10SDH995135 |
| 10SDH875495 | 10SDH920045 | 10SDH935435 | 10SDH965000 | 10SDH980090 | 10SDH995150 |
| 10SDH875510 | 10SDH920060 | 10SDH935450 | 10SDH965015 | 10SDH980105 | 10SDH995165 |
| 10SDH875525 | 10SDH920075 | 10SDH935465 | 10SDH965030 | 10SDH980120 | 10SDH995180 |
| 10SDH875540 | 10SDH920090 | 10SDH935480 | 10SDH965045 | 10SDH980135 | 10SDH995195 |
| 10SDH875555 | 10SDH920315 | 10SDH935495 | 10SDH965060 | 10SDH980150 | 10SDH995210 |
| 10SDH875570 | 10SDH920330 | 10SDH935525 | 10SDH965075 | 10SDH980165 | 10SDH995225 |
| 10SDH890345 | 10SDH920345 | 10SDH935540 | 10SDH965090 | 10SDH980180 | 10SDH995240 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SDH995255 | 10SEG190895 | 10SEG265895 | 10SEG340865 | 10SEG370775 | 10SEG400445 |
| 10SDH995270 | 10SEG190910 | 10SEG265910 | 10SEG340880 | 10SEG370790 | 10SEG400460 |
| 10SDH995285 | 10SEG190925 | 10SEG265925 | 10SEG340895 | 10SEG370805 | 10SEG400475 |
| 10SDH995300 | 10SEG190940 | 10SEG265940 | 10SEG340910 | 10SEG370820 | 10SEG400490 |
| 10SDH995315 | 10SEG190955 | 10SEG265955 | 10SEG340925 | 10SEG370835 | 10SEG400505 |
| 10SDH995330 | 10SEG190970 | 10SEG265970 | 10SEG340940 | 10SEG370850 | 10SEG400520 |
| 10SDH995345 | 10SEG190985 | 10SEG265985 | 10SEG355505 | 10SEG370865 | 10SEG400535 |
| 10SDH995360 | 10SEG205895 | 10SEG280865 | 10SEG355520 | 10SEG370880 | 10SEG400550 |
| 10SDH995375 | 10SEG205910 | 10SEG280880 | 10SEG355535 | 10SEG370895 | 10SEG400565 |
| 10SDH995390 | 10SEG205925 | 10SEG280895 | 10SEG355550 | 10SEG370910 | 10SEG400580 |
| 10SDH995405 | 10SEG205940 | 10SEG280910 | 10SEG355565 | 10SEG385445 | 10SEG400595 |
| 10SDH995540 | 10SEG205955 | 10SEG280925 | 10SEG355580 | 10SEG385460 | 10SEG400610 |
| 10SDH995555 | 10SEG205970 | 10SEG280940 | 10SEG355595 | 10SEG385475 | 10SEG400625 |
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| 10SDH995585 | 10SEG220880 | 10SEG280970 | 10SEG355625 | 10SEG385505 | 10SEG400655 |
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| 10SDH995615 | 10SEG220910 | 10SEG295865 | 10SEG355820 | 10SEG385535 | 10SEG400685 |
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| 10SEG010985 | 10SEG220940 | 10SEG295895 | 10SEG355850 | 10SEG385565 | 10SEG400715 |
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| 10SEG040985 | 10SEG220970 | 10SEG295925 | 10SEG355880 | 10SEG385595 | 10SEG400745 |
| 10SEG055985 | 10SEG220985 | 10SEG295940 | 10SEG355895 | 10SEG385610 | 10SEG400760 |
| 10SEG115985 | 10SEG235880 | 10SEG295955 | 10SEG355910 | 10SEG385625 | 10SEG400775 |
| 10SEG130955 | 10SEG235895 | 10SEG295970 | 10SEG355925 | 10SEG385640 | 10SEG400790 |
| 10SEG130970 | 10SEG235910 | 10SEG310850 | 10SEG370475 | 10SEG385655 | 10SEG400805 |
| 10SEG130985 | 10SEG235925 | 10SEG310865 | 10SEG370490 | 10SEG385670 | 10SEG400820 |
| 10SEG145940 | 10SEG235940 | 10SEG310880 | 10SEG370505 | 10SEG385685 | 10SEG400835 |
| 10SEG145955 | 10SEG235955 | 10SEG310895 | 10SEG370520 | 10SEG385700 | 10SEG400850 |
| 10SEG145970 | 10SEG235970 | 10SEG310910 | 10SEG370535 | 10SEG385715 | 10SEG400865 |
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| 10SEG160925 | 10SEG250865 | 10SEG310940 | 10SEG370565 | 10SEG385745 | 10SEG400895 |
| 10SEG160940 | 10SEG250880 | 10SEG310955 | 10SEG370580 | 10SEG385760 | 10SEG400910 |
| 10SEG160955 | 10SEG250895 | 10SEG325850 | 10SEG370595 | 10SEG385775 | 10SEG415430 |
| 10SEG160970 | 10SEG250910 | 10SEG325865 | 10SEG370610 | 10SEG385790 | 10SEG415445 |
| 10SEG160985 | 10SEG250925 | 10SEG325880 | 10SEG370625 | 10SEG385805 | 10SEG415460 |
| 10SEG175910 | 10SEG250940 | 10SEG325895 | 10SEG370640 | 10SEG385820 | 10SEG415475 |
| 10SEG175925 | 10SEG250955 | 10SEG325910 | 10SEG370655 | 10SEG385835 | 10SEG415490 |
| 10SEG175940 | 10SEG250970 | 10SEG325925 | 10SEG370715 | 10SEG385850 | 10SEG415505 |
| 10SEG175955 | 10SEG250985 | 10SEG325940 | 10SEG370730 | 10SEG385865 | 10SEG415520 |
| 10SEG175970 | 10SEG265865 | 10SEG340835 | 10SEG370745 | 10SEG385880 | 10SEG415535 |
| 10SEG175985 | 10SEG265880 | 10SEG340850 | 10SEG370760 | 10SEG385895 | 10SEG415550 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SEG415565 | 10SEG430640 | 10SEG445730 | 10SEG475205 | 10SEG490400 | 10SEG520175 |
| 10SEG415580 | 10SEG430655 | 10SEG445745 | 10SEG475220 | 10SEG490415 | 10SEG520190 |
| 10SEG415595 | 10SEG430670 | 10SEG445760 | 10SEG475235 | 10SEG490430 | 10SEG520205 |
| 10SEG415610 | 10SEG430685 | 10SEG445775 | 10SEG475250 | 10SEG490445 | 10SEG520220 |
| 10SEG415625 | 10SEG430700 | 10SEG445790 | 10SEG475265 | 10SEG490460 | 10SEG520235 |
| 10SEG415640 | 10SEG430715 | 10SEG445805 | 10SEG475280 | 10SEG490475 | 10SEG520250 |
| 10SEG415655 | 10SEG430730 | 10SEG460130 | 10SEG475295 | 10SEG490490 | 10SEG520265 |
| 10SEG415670 | 10SEG430745 | 10SEG460145 | 10SEG475310 | 10SEG505070 | 10SEG520280 |
| 10SEG415685 | 10SEG430760 | 10SEG460160 | 10SEG475325 | 10SEG505085 | 10SEG520295 |
| 10SEG415700 | 10SEG430775 | 10SEG460175 | 10SEG475340 | 10SEG505100 | 10SEG520310 |
| 10SEG415715 | 10SEG430790 | 10SEG460190 | 10SEG475355 | 10SEG505115 | 10SEG520325 |
| 10SEG415730 | 10SEG430805 | 10SEG460205 | 10SEG475370 | 10SEG505130 | 10SEG520340 |
| 10SEG415745 | 10SEG430820 | 10SEG460220 | 10SEG475385 | 10SEG505145 | 10SEG520355 |
| 10SEG415760 | 10SEG430835 | 10SEG460235 | 10SEG475400 | 10SEG505160 | 10SEG520370 |
| 10SEG415775 | 10SEG445190 | 10SEG460250 | 10SEG475415 | 10SEG505175 | 10SEG520385 |
| 10SEG415790 | 10SEG445205 | 10SEG460265 | 10SEG475430 | 10SEG505190 | 10SEG520400 |
| 10SEG415805 | 10SEG445220 | 10SEG460280 | 10SEG475445 | 10SEG505205 | 10SEG535070 |
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| 10SEG415835 | 10SEG445355 | 10SEG460310 | 10SEG475475 | 10SEG505235 | 10SEG535100 |
| 10SEG415850 | 10SEG445370 | 10SEG460325 | 10SEG475490 | 10SEG505250 | 10SEG535115 |
| 10SEG415865 | 10SEG445385 | 10SEG460340 | 10SEG475505 | 10SEG505265 | 10SEG535130 |
| 10SEG415880 | 10SEG445400 | 10SEG460355 | 10SEG490100 | 10SEG505280 | 10SEG535145 |
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| 10SEG415910 | 10SEG445430 | 10SEG460385 | 10SEG490130 | 10SEG505310 | 10SEG535175 |
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| 10SEG430415 | 10SEG445475 | 10SEG460430 | 10SEG490175 | 10SEG505355 | 10SEG535220 |
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| 10SEG430460 | 10SEG445520 | 10SEG460475 | 10SEG490220 | 10SEG505400 | 10SEG535265 |
| 10SEG430475 | 10SEG445535 | 10SEG460490 | 10SEG490235 | 10SEG505415 | 10SEG535280 |
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| 10SEG430505 | 10SEG445595 | 10SEG460520 | 10SEG490265 | 10SEG505445 | 10SEG535310 |
| 10SEG430520 | 10SEG445610 | 10SEG460655 | 10SEG490280 | 10SEG505460 | 10SEG535325 |
| 10SEG430535 | 10SEG445625 | 10SEG460670 | 10SEG490295 | 10SEG520070 | 10SEG535340 |
| 10SEG430550 | 10SEG445640 | 10SEG475115 | 10SEG490310 | 10SEG520085 | 10SEG535355 |
| 10SEG430565 | 10SEG445655 | 10SEG475130 | 10SEG490325 | 10SEG520100 | 10SEG535370 |
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| 10SEG430595 | 10SEG445685 | 10SEG475160 | 10SEG490355 | 10SEG520130 | 10SEG550085 |
| 10SEG430610 | 10SEG445700 | 10SEG475175 | 10SEG490370 | 10SEG520145 | 10SEG550100 |
| 10SEG430625 | 10SEG445715 | 10SEG475190 | 10SEG490385 | 10SEG520160 | 10SEG550115 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
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| 10SEG550160 | 10SEH010195 | 10SEH025300 | 10SEH040615 | 10SEH070120 | 10SEH085360 |
| 10SEG550205 | 10SEH010210 | 10SEH025315 | 10SEH040630 | 10SEH070135 | 10SEH085390 |
| 10SEG550220 | 10SEH010225 | 10SEH025330 | 10SEH055000 | 10SEH070150 | 10SEH085405 |
| 10SEG550235 | 10SEH010240 | 10SEH025345 | 10SEH055015 | 10SEH070195 | 10SEH085420 |
| 10SEG565070 | 10SEH010255 | 10SEH025360 | 10SEH055030 | 10SEH070210 | 10SEH085585 |
| 10SEG565085 | 10SEH010270 | 10SEH025375 | 10SEH055045 | 10SEH070225 | 10SEH085600 |
| 10SEG565100 | 10SEH010285 | 10SEH025390 | 10SEH055060 | 10SEH070240 | 10SEH085615 |
| 10SEG565115 | 10SEH010300 | 10SEH025405 | 10SEH055075 | 10SEH070255 | 10SEH100000 |
| 10SEG565130 | 10SEH010315 | 10SEH025420 | 10SEH055090 | 10SEH070270 | 10SEH100015 |
| 10SEG565145 | 10SEH010330 | 10SEH025600 | 10SEH055105 | 10SEH070285 | 10SEH100030 |
| 10SEG565205 | 10SEH010345 | 10SEH025615 | 10SEH055120 | 10SEH070300 | 10SEH100045 |
| 10SEG565220 | 10SEH010360 | 10SEH025630 | 10SEH055135 | 10SEH070315 | 10SEH100060 |
| 10SEG580070 | 10SEH010375 | 10SEH040000 | 10SEH055150 | 10SEH070330 | 10SEH100075 |
| 10SEG580085 | 10SEH010390 | 10SEH040015 | 10SEH055180 | 10SEH070345 | 10SEH100090 |
| 10SEG580100 | 10SEH010405 | 10SEH040030 | 10SEH055195 | 10SEH070360 | 10SEH100105 |
| 10SEG580115 | 10SEH010420 | 10SEH040045 | 10SEH055210 | 10SEH070390 | 10SEH100120 |
| 10SEG580130 | 10SEH010570 | 10SEH040060 | 10SEH055225 | 10SEH070405 | 10SEH100150 |
| 10SEG595070 | 10SEH010585 | 10SEH040075 | 10SEH055240 | 10SEH070420 | 10SEH100165 |
| 10SEG595085 | 10SEH010600 | 10SEH040090 | 10SEH055255 | 10SEH070600 | 10SEH100180 |
| 10SEG595100 | 10SEH010615 | 10SEH040105 | 10SEH055270 | 10SEH070615 | 10SEH100195 |
| 10SEG610070 | 10SEH010630 | 10SEH040120 | 10SEH055285 | 10SEH085015 | 10SEH100210 |
| 10SEG610085 | 10SEH025000 | 10SEH040150 | 10SEH055300 | 10SEH085030 | 10SEH100225 |
| 10SEG610100 | 10SEH025015 | 10SEH040165 | 10SEH055315 | 10SEH085045 | 10SEH100240 |
| 10SEG625070 | 10SEH025030 | 10SEH040180 | 10SEH055330 | 10SEH085060 | 10SEH100255 |
| 10SEG625085 | 10SEH025045 | 10SEH040195 | 10SEH055345 | 10SEH085075 | 10SEH100270 |
| 10SEG640070 | 10SEH025060 | 10SEH040210 | 10SEH055360 | 10SEH085090 | 10SEH100285 |
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| 10SEG655070 | 10SEH025090 | 10SEH040240 | 10SEH055390 | 10SEH085120 | 10SEH100315 |
| 10SEH010000 | 10SEH025105 | 10SEH040255 | 10SEH055405 | 10SEH085135 | 10SEH100330 |
| 10SEH010015 | 10SEH025120 | 10SEH040270 | 10SEH055420 | 10SEH085180 | 10SEH100345 |
| 10SEH010030 | 10SEH025135 | 10SEH040285 | 10SEH055600 | 10SEH085195 | 10SEH100360 |
| 10SEH010045 | 10SEH025150 | 10SEH040300 | 10SEH055615 | 10SEH085210 | 10SEH100390 |
| 10SEH010060 | 10SEH025165 | 10SEH040315 | 10SEH055630 | 10SEH085225 | 10SEH100405 |
| 10SEH010075 | 10SEH025180 | 10SEH040330 | 10SEH070000 | 10SEH085240 | 10SEH100585 |
| 10SEH010090 | 10SEH025195 | 10SEH040345 | 10SEH070015 | 10SEH085255 | 10SEH100600 |
| 10SEH010105 | 10SEH025210 | 10SEH040360 | 10SEH070030 | 10SEH085270 | 10SEH100615 |
| 10SEH010120 | 10SEH025225 | 10SEH040375 | 10SEH070045 | 10SEH085285 | 10SEH115000 |
| 10SEH010135 | 10SEH025240 | 10SEH040390 | 10SEH070060 | 10SEH085300 | 10SEH115015 |
| 10SEH010150 | 10SEH025255 | 10SEH040405 | 10SEH070075 | 10SEH085315 | 10SEH115030 |

| | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SEH115045 | 10SEH115285 | 10SEH130150 | 10SEH145135 | 10SEH160135 | 10SEH190000 |
| 10SEH115060 | 10SEH115330 | 10SEH130165 | 10SEH145150 | 10SEH160150 | 10SEH190015 |
| 10SEH115075 | 10SEH115345 | 10SEH130180 | 10SEH145165 | 10SEH160165 | 10SEH190030 |
| 10SEH115090 | 10SEH115360 | 10SEH130195 | 10SEH145180 | 10SEH160180 | 10SEH190090 |
| 10SEH115105 | 10SEH130000 | 10SEH130210 | 10SEH145195 | 10SEH175000 | 10SEH190105 |
| 10SEH115135 | 10SEH130015 | 10SEH145000 | 10SEH160000 | 10SEH175015 | 10SEH190120 |
| 10SEH115150 | 10SEH130030 | 10SEH145015 | 10SEH160015 | 10SEH175030 | 10SEH190135 |
| 10SEH115165 | 10SEH130045 | 10SEH145030 | 10SEH160030 | 10SEH175045 | 10SEH190150 |
| 10SEH115180 | 10SEH130060 | 10SEH145045 | 10SEH160045 | 10SEH175090 | 10SEH205000 |
| 10SEH115195 | 10SEH130075 | 10SEH145060 | 10SEH160060 | 10SEH175105 | 10SEH205015 |
| 10SEH115210 | 10SEH130105 | 10SEH145075 | 10SEH160090 | 10SEH175120 | 10SEH220000 |
| 10SEH115225 | 10SEH130120 | 10SEH145105 | 10SEH160105 | 10SEH175135 | |
| 10SEH115240 | 10SEH130135 | 10SEH145120 | 10SEH160120 | 10SEH175150 | |

PRODUCTION BLOCK 4

The 2,268 tiles delivered with production block 4 are listed below. Two (2) tiles highlighted in yellow do not have a corresponding LAS tile due to data voids:

| | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SDH350990 | 10SDH485975 | 10SDJ245470 | 10SDJ260560 | 10SDJ275485 | 10SDJ290140 |
| 10SDH365990 | 10SDH500930 | 10SDJ245485 | 10SDJ260575 | 10SDJ275500 | 10SDJ290305 |
| 10SDH380960 | 10SDH500945 | 10SDJ245500 | 10SDJ260590 | 10SDJ275515 | 10SDJ290320 |
| 10SDH380975 | 10SDH500960 | 10SDJ245515 | 10SDJ260605 | 10SDJ275530 | 10SDJ290335 |
| 10SDH380990 | 10SDH515930 | 10SDJ245530 | 10SDJ260620 | 10SDJ275545 | 10SDJ290350 |
| 10SDH395930 | 10SDH515945 | 10SDJ245545 | 10SDJ260635 | 10SDJ275560 | 10SDJ290365 |
| 10SDH395945 | 10SDH530930 | 10SDJ245560 | 10SDJ260650 | 10SDJ275575 | 10SDJ290380 |
| 10SDH395960 | 10SDH545930 | 10SDJ245575 | 10SDJ260665 | 10SDJ275590 | 10SDJ290395 |
| 10SDH395975 | 10SDH545945 | 10SDJ245590 | 10SDJ260680 | 10SDJ275605 | 10SDJ290410 |
| 10SDH395990 | 10SDH560930 | 10SDJ245605 | 10SDJ260695 | 10SDJ275620 | 10SDJ290425 |
| 10SDH410930 | 10SDH560945 | 10SDJ245620 | 10SDJ260710 | 10SDJ275635 | 10SDJ290440 |
| 10SDH410945 | 10SDJ215545 | 10SDJ245635 | 10SDJ260725 | 10SDJ275650 | 10SDJ290455 |
| 10SDH410960 | 10SDJ215560 | 10SDJ245650 | 10SDJ260740 | 10SDJ275665 | 10SDJ290470 |
| 10SDH410975 | 10SDJ215965 | 10SDJ245665 | 10SDJ260755 | 10SDJ275680 | 10SDJ290485 |
| 10SDH410990 | 10SDJ215980 | 10SDJ245680 | 10SDJ260785 | 10SDJ275695 | 10SDJ290500 |
| 10SDH425930 | 10SDJ215995 | 10SDJ245695 | 10SDJ260800 | 10SDJ275710 | 10SDJ290515 |
| 10SDH425945 | 10SDJ230485 | 10SDJ245710 | 10SDJ260815 | 10SDJ275725 | 10SDJ290530 |
| 10SDH425960 | 10SDJ230500 | 10SDJ245725 | 10SDJ260830 | 10SDJ275740 | 10SDJ290545 |
| 10SDH425975 | 10SDJ230515 | 10SDJ245740 | 10SDJ260845 | 10SDJ275755 | 10SDJ290560 |
| 10SDH425990 | 10SDJ230530 | 10SDJ245905 | 10SDJ260860 | 10SDJ275770 | 10SDJ290575 |
| 10SDH440930 | 10SDJ230545 | 10SDJ245920 | 10SDJ260875 | 10SDJ275785 | 10SDJ290590 |
| 10SDH440945 | 10SDJ230560 | 10SDJ245935 | 10SDJ260890 | 10SDJ275800 | 10SDJ290605 |
| 10SDH440960 | 10SDJ230575 | 10SDJ245950 | 10SDJ260905 | 10SDJ275815 | 10SDJ290620 |
| 10SDH440975 | 10SDJ230590 | 10SDJ245965 | 10SDJ260920 | 10SDJ275830 | 10SDJ290635 |
| 10SDH440990 | 10SDJ230605 | 10SDJ245980 | 10SDJ260935 | 10SDJ275845 | 10SDJ290650 |
| 10SDH455930 | 10SDJ230620 | 10SDJ245995 | 10SDJ260950 | 10SDJ275860 | 10SDJ290665 |
| 10SDH455945 | 10SDJ230635 | 10SDJ260380 | 10SDJ260965 | 10SDJ275875 | 10SDJ290680 |
| 10SDH455960 | 10SDJ230650 | 10SDJ260395 | 10SDJ260980 | 10SDJ275890 | 10SDJ290695 |
| 10SDH455975 | 10SDJ230665 | 10SDJ260410 | 10SDJ260995 | 10SDJ275905 | 10SDJ290710 |
| 10SDH455990 | 10SDJ230680 | 10SDJ260425 | 10SDJ275350 | 10SDJ275920 | 10SDJ290725 |
| 10SDH470930 | 10SDJ230920 | 10SDJ260440 | 10SDJ275365 | 10SDJ275935 | 10SDJ290740 |
| 10SDH470945 | 10SDJ230935 | 10SDJ260455 | 10SDJ275380 | 10SDJ275950 | 10SDJ290755 |
| 10SDH470960 | 10SDJ230950 | 10SDJ260470 | 10SDJ275395 | 10SDJ275965 | 10SDJ290770 |
| 10SDH470975 | 10SDJ230965 | 10SDJ260485 | 10SDJ275410 | 10SDJ275980 | 10SDJ290785 |
| 10SDH470990 | 10SDJ230980 | 10SDJ260500 | 10SDJ275425 | 10SDJ275995 | 10SDJ290800 |
| 10SDH485930 | 10SDJ230995 | 10SDJ260515 | 10SDJ275440 | 10SDJ290095 | 10SDJ290815 |
| 10SDH485945 | 10SDJ245440 | 10SDJ260530 | 10SDJ275455 | 10SDJ290110 | 10SDJ290830 |
| 10SDH485960 | 10SDJ245455 | 10SDJ260545 | 10SDJ275470 | 10SDJ290125 | 10SDJ290845 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SDJ290860 | 10SDJ305620 | 10SDJ320305 | 10SDJ320935 | 10SDJ335665 | 10SDJ350365 |
| 10SDJ290875 | 10SDJ305635 | 10SDJ320320 | 10SDJ320950 | 10SDJ335680 | 10SDJ350380 |
| 10SDJ290890 | 10SDJ305650 | 10SDJ320335 | 10SDJ335020 | 10SDJ335710 | 10SDJ350395 |
| 10SDJ290905 | 10SDJ305665 | 10SDJ320350 | 10SDJ335035 | 10SDJ335725 | 10SDJ350410 |
| 10SDJ290920 | 10SDJ305680 | 10SDJ320365 | 10SDJ335050 | 10SDJ335740 | 10SDJ350425 |
| 10SDJ290935 | 10SDJ305695 | 10SDJ320380 | 10SDJ335065 | 10SDJ335755 | 10SDJ350440 |
| 10SDJ290950 | 10SDJ305710 | 10SDJ320395 | 10SDJ335080 | 10SDJ335770 | 10SDJ350485 |
| 10SDJ290965 | 10SDJ305725 | 10SDJ320410 | 10SDJ335095 | 10SDJ335785 | 10SDJ350500 |
| 10SDJ290980 | 10SDJ305740 | 10SDJ320425 | 10SDJ335110 | 10SDJ335800 | 10SDJ350515 |
| 10SDJ290995 | 10SDJ305755 | 10SDJ320440 | 10SDJ335125 | 10SDJ335815 | 10SDJ350530 |
| 10SDJ305050 | 10SDJ305770 | 10SDJ320455 | 10SDJ335140 | 10SDJ335830 | 10SDJ350545 |
| 10SDJ305065 | 10SDJ305785 | 10SDJ320470 | 10SDJ335155 | 10SDJ335845 | 10SDJ350620 |
| 10SDJ305080 | 10SDJ305800 | 10SDJ320485 | 10SDJ335170 | 10SDJ335860 | 10SDJ350635 |
| 10SDJ305095 | 10SDJ305815 | 10SDJ320500 | 10SDJ335185 | 10SDJ335875 | 10SDJ350650 |
| 10SDJ305110 | 10SDJ305830 | 10SDJ320515 | 10SDJ335200 | 10SDJ335890 | 10SDJ350665 |
| 10SDJ305125 | 10SDJ305845 | 10SDJ320530 | 10SDJ335215 | 10SDJ335905 | 10SDJ350680 |
| 10SDJ305140 | 10SDJ305860 | 10SDJ320545 | 10SDJ335230 | 10SDJ335920 | 10SDJ350740 |
| 10SDJ305155 | 10SDJ305875 | 10SDJ320560 | 10SDJ335245 | 10SDJ350005 | 10SDJ350755 |
| 10SDJ305275 | 10SDJ305890 | 10SDJ320590 | 10SDJ335260 | 10SDJ350020 | 10SDJ350770 |
| 10SDJ305290 | 10SDJ305905 | 10SDJ320605 | 10SDJ335275 | 10SDJ350035 | 10SDJ350785 |
| 10SDJ305305 | 10SDJ305920 | 10SDJ320620 | 10SDJ335290 | 10SDJ350050 | 10SDJ350800 |
| 10SDJ305320 | 10SDJ305935 | 10SDJ320635 | 10SDJ335305 | 10SDJ350065 | 10SDJ350815 |
| 10SDJ305335 | 10SDJ305950 | 10SDJ320650 | 10SDJ335320 | 10SDJ350080 | 10SDJ365005 |
| 10SDJ305350 | 10SDJ305965 | 10SDJ320665 | 10SDJ335335 | 10SDJ350095 | 10SDJ365020 |
| 10SDJ305365 | 10SDJ305980 | 10SDJ320680 | 10SDJ335350 | 10SDJ350110 | 10SDJ365035 |
| 10SDJ305380 | 10SDJ305995 | 10SDJ320695 | 10SDJ335365 | 10SDJ350125 | 10SDJ365050 |
| 10SDJ305395 | 10SDJ320035 | 10SDJ320710 | 10SDJ335380 | 10SDJ350140 | 10SDJ365065 |
| 10SDJ305410 | 10SDJ320050 | 10SDJ320725 | 10SDJ335395 | 10SDJ350155 | 10SDJ365080 |
| 10SDJ305425 | 10SDJ320065 | 10SDJ320740 | 10SDJ335410 | 10SDJ350170 | 10SDJ365095 |
| 10SDJ305440 | 10SDJ320080 | 10SDJ320755 | 10SDJ335425 | 10SDJ350185 | 10SDJ365110 |
| 10SDJ305455 | 10SDJ320095 | 10SDJ320770 | 10SDJ335440 | 10SDJ350200 | 10SDJ365125 |
| 10SDJ305470 | 10SDJ320110 | 10SDJ320785 | 10SDJ335455 | 10SDJ350215 | 10SDJ365140 |
| 10SDJ305485 | 10SDJ320125 | 10SDJ320800 | 10SDJ335470 | 10SDJ350230 | 10SDJ365155 |
| 10SDJ305500 | 10SDJ320140 | 10SDJ320815 | 10SDJ335485 | 10SDJ350245 | 10SDJ365170 |
| 10SDJ305515 | 10SDJ320155 | 10SDJ320830 | 10SDJ335500 | 10SDJ350260 | 10SDJ365185 |
| 10SDJ305530 | 10SDJ320170 | 10SDJ320845 | 10SDJ335515 | 10SDJ350275 | 10SDJ365200 |
| 10SDJ305545 | 10SDJ320230 | 10SDJ320860 | 10SDJ335530 | 10SDJ350290 | 10SDJ365215 |
| 10SDJ305560 | 10SDJ320245 | 10SDJ320875 | 10SDJ335545 | 10SDJ350305 | 10SDJ365230 |
| 10SDJ305575 | 10SDJ320260 | 10SDJ320890 | 10SDJ335560 | 10SDJ350320 | 10SDJ365245 |
| 10SDJ305590 | 10SDJ320275 | 10SDJ320905 | 10SDJ335635 | 10SDJ350335 | 10SDJ365260 |
| 10SDJ305605 | 10SDJ320290 | 10SDJ320920 | 10SDJ335650 | 10SDJ350350 | 10SDJ365275 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SDJ365290 | 10SDJ380215 | 10SDJ395170 | 10SDJ410515 | 10SDK065280 | 10SDK155115 |
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| 10SDJ365320 | 10SDJ380245 | 10SDJ395200 | 10SDJ425005 | 10SDK080235 | 10SDK155145 |
| 10SDJ365335 | 10SDJ380260 | 10SDJ395215 | 10SDJ425020 | 10SDK080250 | 10SDK155160 |
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| 10SDJ365365 | 10SDJ380290 | 10SDJ395245 | 10SDJ425095 | 10SDK080280 | 10SDK155190 |
| 10SDJ365380 | 10SDJ380305 | 10SDJ395260 | 10SDJ425110 | 10SDK095205 | 10SDK155205 |
| 10SDJ365395 | 10SDJ380320 | 10SDJ395275 | 10SDJ425320 | 10SDK095220 | 10SDK155220 |
| 10SDJ365410 | 10SDJ380335 | 10SDJ395290 | 10SDJ425335 | 10SDK095235 | 10SDK155235 |
| 10SDJ365425 | 10SDJ380350 | 10SDJ395305 | 10SDJ425350 | 10SDK095250 | 10SDK155250 |
| 10SDJ365440 | 10SDJ380365 | 10SDJ395350 | 10SDJ425365 | 10SDK095265 | 10SDK170085 |
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| 10SDJ365470 | 10SDJ380425 | 10SDJ395380 | 10SDJ425485 | 10SDK110175 | 10SDK170115 |
| 10SDJ365485 | 10SDJ380440 | 10SDJ395440 | 10SDJ425500 | 10SDK110190 | 10SDK170130 |
| 10SDJ365500 | 10SDJ380455 | 10SDJ395455 | 10SDJ425515 | 10SDK110205 | 10SDK170145 |
| 10SDJ365515 | 10SDJ380470 | 10SDJ395470 | 10SDJ440005 | 10SDK110220 | 10SDK170160 |
| 10SDJ365530 | 10SDJ380485 | 10SDJ395485 | 10SDJ440020 | 10SDK110235 | 10SDK170175 |
| 10SDJ365605 | 10SDJ380500 | 10SDJ395500 | 10SDJ440095 | 10SDK110250 | 10SDK170190 |
| 10SDJ365620 | 10SDJ380515 | 10SDJ395515 | 10SDJ440110 | 10SDK110265 | 10SDK170205 |
| 10SDJ365635 | 10SDJ380530 | 10SDJ395530 | 10SDJ440320 | 10SDK110280 | 10SDK170220 |
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| 10SDJ365725 | 10SDJ380620 | 10SDJ410020 | 10SDJ440350 | 10SDK125175 | 10SDK185070 |
| 10SDJ365740 | 10SDJ380635 | 10SDJ410035 | 10SDJ440500 | 10SDK125190 | 10SDK185085 |
| 10SDJ365755 | 10SDJ380650 | 10SDJ410050 | 10SDJ440515 | 10SDK125205 | 10SDK185100 |
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| 10SDJ365785 | 10SDJ380740 | 10SDJ410110 | 10SDJ455320 | 10SDK125235 | 10SDK185130 |
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| 10SDJ380005 | 10SDJ380770 | 10SDJ410170 | 10SDJ455350 | 10SDK125265 | 10SDK185160 |
| 10SDJ380020 | 10SDJ380785 | 10SDJ410185 | 10SDJ455500 | 10SDK125280 | 10SDK185175 |
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| 10SDJ380065 | 10SDJ395020 | 10SDJ410230 | 10SDK020280 | 10SDK140160 | 10SDK185220 |
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| 10SDJ380095 | 10SDJ395050 | 10SDJ410335 | 10SDK035265 | 10SDK140190 | 10SDK200070 |
| 10SDJ380110 | 10SDJ395065 | 10SDJ410350 | 10SDK035280 | 10SDK140205 | 10SDK200085 |
| 10SDJ380125 | 10SDJ395080 | 10SDJ410365 | 10SDK050250 | 10SDK140220 | 10SDK200100 |
| 10SDJ380140 | 10SDJ395095 | 10SDJ410440 | 10SDK050265 | 10SDK140235 | 10SDK200115 |
| 10SDJ380155 | 10SDJ395110 | 10SDJ410455 | 10SDK050280 | 10SDK140250 | 10SDK200130 |
| 10SDJ380170 | 10SDJ395125 | 10SDJ410470 | 10SDK065235 | 10SDK140265 | 10SDK200145 |
| 10SDJ380185 | 10SDJ395140 | 10SDJ410485 | 10SDK065250 | 10SDK140280 | 10SDK200160 |
| 10SDJ380200 | 10SDJ395155 | 10SDJ410500 | 10SDK065265 | 10SDK155100 | 10SDK200175 |

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|-------------|-------------|-------------|-------------|-------------|-------------|
| 10SDK200190 | 10SDK275025 | 10TCK735835 | 10TCK780685 | 10TCK795880 | 10TCK825520 |
| 10SDK215010 | 10SDK275040 | 10TCK750700 | 10TCK780700 | 10TCK795895 | 10TCK825535 |
| 10SDK215025 | 10SDK275055 | 10TCK750715 | 10TCK780715 | 10TCK795910 | 10TCK825550 |
| 10SDK215040 | 10SDK275070 | 10TCK750730 | 10TCK780730 | 10TCK795925 | 10TCK825565 |
| 10SDK215055 | 10SDK275085 | 10TCK750745 | 10TCK780745 | 10TCK795940 | 10TCK825580 |
| 10SDK215070 | 10SDK275100 | 10TCK750760 | 10TCK780760 | 10TCK795955 | 10TCK825595 |
| 10SDK215085 | 10SDK290010 | 10TCK750775 | 10TCK780775 | 10TCK810505 | 10TCK825610 |
| 10SDK215100 | 10SDK290025 | 10TCK750790 | 10TCK780790 | 10TCK810520 | 10TCK825625 |
| 10SDK215115 | 10SDK290040 | 10TCK750805 | 10TCK780805 | 10TCK810535 | 10TCK825640 |
| 10SDK215130 | 10SDK290055 | 10TCK750820 | 10TCK780820 | 10TCK810550 | 10TCK825655 |
| 10SDK215145 | 10SDK290070 | 10TCK750835 | 10TCK780835 | 10TCK810565 | 10TCK825670 |
| 10SDK215160 | 10SDK290100 | 10TCK750850 | 10TCK780850 | 10TCK810580 | 10TCK825685 |
| 10SDK215175 | 10SDK305010 | 10TCK750865 | 10TCK780865 | 10TCK810595 | 10TCK825700 |
| 10SDK230010 | 10TCK690745 | 10TCK750880 | 10TCK780880 | 10TCK810610 | 10TCK825715 |
| 10SDK230025 | 10TCK690760 | 10TCK765670 | 10TCK780895 | 10TCK810625 | 10TCK825730 |
| 10SDK230040 | 10TCK690775 | 10TCK765685 | 10TCK780910 | 10TCK810640 | 10TCK825745 |
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| 10SDK230070 | 10TCK690805 | 10TCK765715 | 10TCK795520 | 10TCK810670 | 10TCK825790 |
| 10SDK230085 | 10TCK705730 | 10TCK765730 | 10TCK795535 | 10TCK810685 | 10TCK825805 |
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| 10SDK230115 | 10TCK705760 | 10TCK765760 | 10TCK795565 | 10TCK810715 | 10TCK825835 |
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