This atlas provides detailed crisis satellite imagery coverage and building damage assessment data over the Tuamasaga District, Upolu Island, Samoa based on Pleiades data recorded on the 19 December 2012. Analysis based on WorldView-2 data recorded on the 18 December 2012 in areas obscured by clouds. Precrisis GeoEye-1 data recorded 2 October 2012 were used for comparison during the analysis. This atlas product was produced by UNITAR/UNOSAT in support of emergency humanitarian assistance activities, and has been designed for easy printing and readability A4 and A3 paper at a scale of 1:4230. This analysis has not yet been validated in the field. Please send ground feedback to UNITAR / UNOSAT at contact information below.
The depiction and use of boundaries, geographic names, and related data is accurate only to the extent provided by the data providers. This may include inaccuracies, omissions or errors in the information contained herein. The United Nations or any other entity or individual, or any of their implementing partners, is not responsible for any use of the information herein or for the consequences thereof. All rights reserved.

UNITAR/UNOSAT
Palais des Nations, Genève, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat

Coordinate System:
WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
False easting: 500,000.0000
False northing: 10,000,000.0000
Central meridian: -171.0000
Scale factor: 0.9996
Latitude of origin: 0.0000
Units: Meter

Map Scale for A3: 1:4,230

Satellite Data (1): Pleiades Imagery Dates: 19/12/2012
Resolution: 0.5 m
Copyright: Astrium GEO-Information Services
Source: CNES
Road Data: Google Map Maker / OSM / ESRI
Other Data: USGS, UNCS, NGA
Analysis: UNITAR / UNOSAT
Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.0

The depiction and use of boundaries, geographic names, and related data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR) providing satellite imagery and related geographic information, research, and analysis to UN humanitarian and development agencies and their implementing partners.

TC20121215WSM

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:

Production Date: 08/01/2013
Version 1.0
Activation Number:
The depiction and use of boundaries, geographic names, and related data shown here are not warranted to be error-free but do not imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR) providing geospatial and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners.

UNITAR / UNOSAT
unosat@unitar.org
Palais des Nations,
Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat
Satellite Data (1): Pleiades
Imagery Dates: 19/12/2012
Resolution: 0.5 m
Copyright: Astrium GEO-Information Services
Source: CNES
Road Data: Google Map Maker / OSM / ESRI
Other Data: USGS, UNCS, NGA
Analysis: UNITAR / UNOSAT
Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.0

The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR) providing valuable and related geographic information, research and analysis to UN humanitarian and development agencies and their implementing partners.

UNITAR / UNOSAT
unosat@unitar.org
Palais des Nations, Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat

Coordinate System:
WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

Production Date: 08/01/2013
Version 1.0
Activation Number: TC20121215WSM

Tropical Cyclone Map Scale for A3: 1:4,230
ATLAS SHEET: E2

Map Scale for A3: 1:4,230

The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR) providing validated satellite imagery and related geographic information, research and analysis to UN humanitarian and development agencies and their implementing partners.

Source: CNES
Road Data: Google Map Maker / OSM / ESRI
Other Data: USGS, UNCS, NGA
Analysis: UNITAR / UNOSAT
Production: UNITAR / UNOSAT

Analysis conducted with ArcGIS v10.0

Coordinate System: WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
False easting: 500,000.0000
False northing: 10,000,000.0000
Central meridian: -171.0000
Scale factor: 0.9996
Latitude of origin: 0.0000
Units: Meter

Map Scale for A3: 1:4,230

Production Date: 08/01/2013
Version 1.0
Activation Number: TC20121215WSM

UNOSAT @ UNITAR
unosat@unitar.org
Palais des Nations,
Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat

Production Date: 08/01/2013
Version 1.0
Activation Number: TC20121215WSM

UNOSAT @ UNITAR
unosat@unitar.org
Palais des Nations,
Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat
The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing validated, high-resolution satellite imagery and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners.

Production Date: 08/01/2013
Activation Number: TC20121215WSM
Coordinate System: WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

Map Scale for A3: 1:4,230

Coordinate accuracy +/−0.5 meters

The data used in this map is derived from a variety of sources including satellite images, ground and water assessment data and various other sources. The data is accurate to within the above specified accuracy. This accuracy level is believed to be adequate for most applications. The user is responsible for determining the suitability of the data for any particular purpose.

Copyright: Astrium GEO-Information Services, Source: CNES, Road Data: Google Map Maker(OSM)/ESRI, Other Data: USGS, UNCS, NGA, Analysis: UNITAR/UNOSAT, Production: UNITAR/UNOSAT

Analysis conducted with ArcGIS v10.0

UNITAR / UNOSAT
unosat@unitar.org
Palais des Nations, Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat
The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners.

Satellite Data (1): Pleiades Imagery Data: 19/12/2012
Copyright: Astrium GEO-Information Services (OGS)
Road Data: Google Map Maker / OSM / ESRI
Other Data: USGS, UNCS, NGA
Analysis: UNITAR / UNOSAT
Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.0

Coordinate System: WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
False easting: 500,000.0000
False northing: 10,000,000.0000
Central meridian: -171.0000
Scale factor: 0.9996
Latitude of origin: 0.0000
Units: Meter

Map Scale for A3: 1:4,230

Production Date: 08/01/2013
Version 1.0
Activation Number: TC20121215WSM
The depiction and use of boundaries, geographic names, and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing valuable and relevant geographic information to decision-makers across the globe implementing peacekeeping and humanitarian efforts.

UNITAR / UNOSAT
unosat@unitar.org
Palais des Nations,
Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat

Coordinate System: WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

50 0 50 100 150 250 Meters

Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.0

Satellite Data: Pleiades Imagery (19/12/2012)
Imagery Dates: 19/12/2012
Resolution: 0.5 m
Copyright: Astrium GEO-Information Services
Source: CNES
Road Data: Google Map Maker/OSM/ESRI
Other Data: USGS, UNCS, NGA
Analysis: UNITAR / UNOSAT

Tropical Cyclone Map Scale for A3: 1:4,230

Cloud cover

Production Date: 08/01/2013
Version 1.0
Activation Number: TC20121215WSM
The depiction and use of boundaries, geographic names and related data shown here are not necessarily endorsed by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research. The information conveyed herein and related geographic or thematic data is subject to change and subject to development, improvement & may contain errors. The data is not warrant
The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian and development agencies and their implementing partners.
The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing rapid response and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners.

Production Date: 08/01/2013
Version 1.0
Activation Number:
TC20121215WSM

Coordinate System:
WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

50 0 50 100 150 250
Meters

Map Scale for A3: 1:4,230

Tropical Cyclone

OSMI (ESRI)
Other Data: USGS, UNCS, NGA
Analysis: UNITAR / UNOSAT
Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.0

Satellite Data (1): Pleiades
Imagery Dates: 19/12/2012
Resolution: 0.5 m
Copyright: Astrium GEO-Information Services
Source: CNES
Road Data: Google Map Maker / OSM / ESRI
Other Data: USGS, UNCS, NGA
Analysis: UNITAR / UNOSAT
Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.0

UNITAR / UNOSAT
unosat@unitar.org
Palais des Nations,
Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat

Production Date: 08/01/2013
Version 1.0
Activation Number:
TC20121215WSM

Coordinate System:
WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

50 0 50 100 150 250
Meters

Production Date: 08/01/2013
Version 1.0
Activation Number:
TC20121215WSM

Coordinate System:
WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

50 0 50 100 150 250
Meters

Production Date: 08/01/2013
Version 1.0
Activation Number:
TC20121215WSM

Coordinate System:
WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

50 0 50 100 150 250
Meters
The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR) providing underserved countries and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners.

Production Date: 08/01/2013
Version 1.0
Activation Number: TC20121215WSM

Coordinate System: WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
False Easting: 500,000.0000
False Northing: 10,000,000.0000
Central Meridian: -171.0000
Scale Factor: 0.9996
Latitude of Origin: 0.0000
Units: Meter

Map Scale for A3: 1:4,230

Satellite Data: (1) Geoeye (imagery source: 16/12/2012)
Copyright: Geoeye
Source: OSM
Road Data: Google Map Maker

Analysis: UNITAR / UNOSAT
Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.0

UNITAR / UNOSAT
unosat@unitar.org
Palais des Nations,
Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat

Tropical Cyclone
Map Scale for A3: 1:4,230
The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners.

UNITAR/UNOSAT
unosat@unitar.org
Palais des Nations,
Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat

Coordinate System:
WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

Production Date: 08/01/2013
Version 1.0
Activation Number: TC20121215WSM

Satellite Data (1): Pleiades Imagery (Date: 19/12/2012)
Resolution: 0.5 m
Copyright: Astrium GEO-Information Services
Source: CNES
Road Data: Google Map Maker / OSM / ESRI
Other Data: USGS, UNCS, NGA
Analysis: UNITAR / UNOSAT
Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.0

I

Map Scale for A3: 1:4,230

8,449,900
8,450,200
8,450,500
8,450,800
8,451,000

416,200
416,400
416,600
416,800
417,000
417,200

171°46'0"W
171°46'10"W
171°46'20"W
171°46'30"W

14°0'40"S
14°0'50"S
14°1'0"S
14°1'10"S

50 100 150 250 Meters

The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners.

UNITAR/UNOSAT
unosat@unitar.org
Palais des Nations,
Geneva, Switzerland
T: +41 22 767 4020
24/7 hotline: +41 76 487 4998
www.unitar.org/unosat

Coordinate System:
WGS 1984 UTM zone 2S
Projection: Transverse Mercator
Datum: WGS 1984
false easting: 500,000.0000
false northing: 10,000,000.0000
central meridian: -171.0000
scale factor: 0.9996
latitude of origin: 0.0000
Units: Meter

Production Date: 08/01/2013
Version 1.0
Activation Number: TC20121215WSM
The depiction and use of boundaries, geographic names and related data on this map are not intended to suggest official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian and development agencies and their implementing partners.

Satellite Data (1): Pleiades Imagery Dates: 19/12/2012 Resolution: 0.5 m Copyright: Astrium GEO-Information Services Source: CNES Other Data: USGS, UNCS, NGA Analysis: UNITAR / UNOSAT Production: UNITAR / UNOSAT Analysis conducted with ArcGIS v10.0

Coordinate System: WGS 1984 UTM zone 2S Projection: Transverse Mercator Datum: WGS 1984 false easting: 500,000.0000 false northing: 10,000,000.0000 central meridian: -171.0000 scale factor: 0.9996 latitude of origin: 0.0000 Units: Meter

Production Date: 08/01/2013 Version 1.0 Activation Number: TC20121215WSM

Tropical Cyclone Map Scale for A3: 1:4,230