PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: C.Hatcher, J.Velazquez, G.Reynolds, D.Hopkins
NEON Plot ID: JERC_003
Site ID: S2015GA007001
Pedon ID: S2015GA007001

Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0122
Soil Name as Described/Sampled: Wicksburg
Classification: Clayey, kaolinitic, thermic Arenic Paleudults

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:

Local Physiographic Area: Jones Ecological Research Center
Geomorphic Setting: on backslope of side slope of hills
on backslope of side slope of hillslope
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 62 to 112 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 12 cm.
argillic horizon 62 to 100 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit: TwB -- Troup sand, 0 to 5 percent slopes
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.
Quad Name: Hopeful, Georgia
Std Latitude: 31.1960833
Std Longitude: -84.4733444

Latitude: 31 degrees 11 minutes 45.90 seconds north
Longitude: 84 degrees 28 minutes 24.04 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 740751 meters
UTM Northing: 3454084 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: fine-loamy marine deposits derived from sedimentary rock
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007001 **Pedon ID:** S2015GA007001

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
13.0	37.0	96	18.0	29.0	11.2	1,360	255	well	90	76.0

A--0 to 12 centimeters (0.0 to 4.7 inches); dark brown (10YR 3/3) interior loamy fine sand; weak fine granular structure; very friable, nonsticky, nonplastic; deformable; many very fine roots throughout and common very coarse roots throughout and many coarse roots between peds; clear smooth boundary. Lab sample # 18N00970

E1--12 to 35 centimeters (4.7 to 13.8 inches); brown (10YR 4/3) interior loamy fine sand; weak fine granular structure; very friable, nonsticky, nonplastic; deformable; few very fine roots throughout and common medium roots throughout and few fine roots throughout and common coarse roots throughout; clear smooth boundary. Lab sample # 18N00971

E2--35 to 62 centimeters (13.8 to 24.4 inches); yellowish brown (10YR 5/4) interior loamy fine sand; weak fine subangular blocky structure; friable, nonsticky, nonplastic; deformable; few medium roots throughout; clear smooth boundary. Lab sample # 18N00972

Bt--62 to 100 centimeters (24.4 to 39.4 inches); strong brown (7.5YR 5/6) broken face sandy clay; strong coarse subangular blocky, and strong medium subangular blocky structure; firm, moderately sticky, moderately plastic; nonfluid; few medium roots throughout and few fine roots throughout; 15 percent faint clay films on all faces of peds; 20 percent fine distinct 10YR 5/3), moist, iron-manganese masses with clear boundaries In matrix; faint cylindrical carbonate concretions with diffuse boundaries between peds. Lab sample # 18N00973. Many fine 10YR 6/3 sand spots

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 13 2015
Describer: C. Hatcher, J. Velazquez, G. Reynolds, D. Hopkins
NEON Plot ID: JERC_010
Site ID: S2015GA007003

Pedon ID: S2015GA007003

Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0123
Soil Name as Described/Sampled: Troup
Classification: Loamy, kaolinitic, thermic Grossarenic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: confirmation description
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Lucy
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:

Local Physiographic Area: Jones Ecological Research
Geomorphic Setting: on backslope of side slope of hillslope on backslope of side slope of hills
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 0 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 100 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: GA603 -- Baker and Mitchell Counties, Georgia
7-TIF -- Tifton, Georgia
Map Unit: TwC -- Troup sand, 5 to 8 percent slopes
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.
Quad Name: Hopeful, Georgia
Std Latitude: 31.2080528
Std Longitude: -84.4697278

Latitude: 31 degrees 12 minutes 28.99 seconds north
Longitude: 84 degrees 28 minutes 11.02 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 741066 meters
UTM Northing: 3455419 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: sandy marine deposits derived from sedimentary rock
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007003 **Pedon ID:** S2015GA007003

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
12.0	39.6	265	18.0	29.0	11.2	1,360	255	well	100	100.0

A--0 to 8 centimeters (0.0 to 3.1 inches); very dark brown (10YR 2/2) loamy fine sand; weak fine granular structure; very friable; deformable; low excavation difficulty; very fine roots throughout and medium roots throughout and fine roots throughout and coarse roots throughout; clear smooth boundary. Lab sample # 18N00974

AE--8 to 20 centimeters (3.1 to 7.9 inches); 50 percent very dark brown (10YR 2/2) and 50 percent brown (10YR 4/3) loamy fine sand; weak fine granular structure; very friable; deformable; low excavation difficulty; very fine roots throughout and medium roots throughout and fine roots throughout and coarse roots throughout; clear smooth boundary. Lab sample # 18N00975

E1--20 to 53 centimeters (7.9 to 20.9 inches); yellowish brown (10YR 5/6) loamy fine sand; weak fine granular structure; very friable; deformable; low excavation difficulty; very fine roots throughout and fine roots throughout and coarse roots throughout; gradual wavy boundary. Lab sample # 18N00976

E2--53 to 100 centimeters (20.9 to 39.4 inches); dark yellowish brown (10YR 4/6) loamy fine sand; weak fine granular structure; very friable; deformable; low excavation difficulty; fine roots throughout; . Lab sample # 18N00977

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018

Description Date: Oct 13 2015

Describer: C.Hatcher, J.Velazquez, G.Reynolds, D.Hopkins

NEON Plot ID: JERC_022

Site ID: S2015GA007004

Pedon ID: S2015GA007004

Site Note: This site has been used as a representative pedon for a NEON project in Jones Ecological Research Center, Baker County, Georgia. It's been utilized for full characterization and sampling. USER SITE/PEDON ID: S2015GA007004(JERC_022) This pedon has been classified as a Coarse-loamy, kaolinitic, thermic Typic Kandiudults

Pedon Note: This site has been used as a representative pedon for a NEON project in Jones Ecological Research Center, Baker County, GA. It's been utilized for full characterization and sampling. USER SITE/PEDON ID: S2015GA007004(JERC_022) This pedon has been classified as a Coarse-loamy, kaolinitic, thermic Typic Kandiudults

Lab Source ID: KSSL

Lab Pedon #: 18N0124

Soil Name as Described/Sampled: Benevolence

Classification: Coarse-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:

Pedon Type: correlates to named soil

Pedon Purpose: ecological site data

Taxon Kind: series

Associated Soils:

Physiographic Division:

Physiographic Province:

Physiographic Section:

State Physiographic Area:

Local Physiographic Area: Jones Ecological Research Center

Geomorphic Setting: on summit of crest of hills
on summit of crest of ridge

Upslope Shape: linear

Cross Slope Shape: convex

Particle Size Control Section: 20 to 70 cm.

Description origin: NASIS

Diagnostic Features: ochric epipedon 0 to 12 cm.
kandic horizon 20 to 10 cm.
argillic horizon 20 to 100 cm.

Country: United States

State: Georgia

County: Baker

MLRA: 133A -- Southern Coastal Plain

Soil Survey Area: 7-TIF -- Tifton, Georgia

Map Unit: TwB -- Troup sand, 0 to 5 percent slopes

Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Quad Name: Hopeful, Georgia

Std Latitude: 31.2103611

Std Longitude: -84.4685306

Latitude: 31 degrees 12 minutes 37.30 seconds north

Longitude: 84 degrees 28 minutes 6.71 seconds west

Datum: WGS84

UTM Zone: 16

UTM Easting: 741174 meters

UTM Northing: 3455678 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation:

Parent Material: coarse-loamy marine deposits derived from sedimentary rock

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Cont. Site ID: S2015GA007004 **Pedon ID:** S2015GA007004

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
3.0	46.0		18.0	29.0	11.2	1,360	255	well	61	76.0

A--0 to 12 centimeters (0.0 to 4.7 inches); very dark grayish brown (10YR 3/2) loamy fine sand; weak fine granular structure; very friable, nonsticky, nonplastic; deformable; low excavation difficulty; common very fine roots throughout and common fine roots throughout; clear wavy boundary. Lab sample # 18N00978

E--12 to 20 centimeters (4.7 to 7.9 inches); brown (7.5YR 4/3) loamy fine sand; weak fine granular structure; very friable, nonsticky, nonplastic; deformable; low excavation difficulty; common very fine roots throughout and common fine roots throughout and common coarse roots throughout; gradual wavy boundary. Lab sample # 18N00979

Bt1--20 to 66 centimeters (7.9 to 26.0 inches); red (2.5YR 4/6) sandy loam; 8 percent clay; weak fine subangular blocky structure; friable, nonsticky, nonplastic; semideformable; low excavation difficulty; few medium roots throughout and few fine roots throughout; 10 percent faint clay films on all faces of peds; gradual wavy boundary. Lab sample # 18N00980

Bt2--66 to 100 centimeters (26.0 to 39.4 inches); dark red (2.5YR 3/6) sandy loam; 20 percent clay; moderate fine subangular blocky, and moderate medium subangular blocky structure; friable, nonsticky, nonplastic; nonfluid; low excavation difficulty; 10 percent faint clay films on all faces of peds. Lab sample # 18N00981

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018

Description Date: Oct 14 2015

Describer: C.Hatcher, J.Velazquez, G.Reynolds, D.Hopkins

NEON Plot ID: JERC_034

Site ID: S2015GA007005

Pedon ID: S2015GA007005

Site Note: This site has been used as a representative pedon for a NEON project in Jones Ecological Research Center, Baker County, Georgia. It's been utilized for full characterization and sampling. USER SITE/PEDON ID: S2015GA007005(JERC_034) This pedon has been classified as a Fine-loamy, kaolinitic, thermic Typic Kandiudults

Pedon Note: This site has been used as a representative pedon for a NEON project in Jones Ecological Research Center, Baker County, GA. It's been utilized for full characterization and sampling. USER SITE/PEDON ID: S2015GA007005(JERC_034) This pedon has been classified as a Fine-loamy, kaolinitic, thermic Typic Kandiudults

Lab Source ID: KSSL

Lab Pedon #: 18N0125

Soil Name as Described/Sampled: Norfolk

Classification: Fine-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:

Pedon Type: correlates to named soil

Pedon Purpose: ecological site data

Taxon Kind: series

Associated Soils:

Physiographic Division:

Physiographic Province:

Physiographic Section:

State Physiographic Area:

Local Physiographic Area: Jones Ecological Research Center

Geomorphic Setting: on shoulder of side slope of hills
on shoulder of side slope of hillslope

Upslope Shape: linear

Cross Slope Shape: concave

Particle Size Control Section: 101 to 151 cm.

Description origin: NASIS

Diagnostic Features: ochric epipedon 0 to 7 cm.

Country: United States

State: Georgia

County: Baker

MLRA: 133A -- Southern Coastal Plain

Soil Survey Area: 7-TIF -- Tifton, Georgia

Map Unit: WaB -- Wagram loamy sand, 0 to 5 percent slopes

Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Quad Name: Hopeful, Georgia

Std Latitude: 31.1975139

Std Longitude: -84.4916056

Latitude: 31 degrees 11 minutes 51.05 seconds north

Longitude: 84 degrees 29 minutes 29.78 seconds west

Datum: WGS84

UTM Zone: 16

UTM Easting: 739007 meters

UTM Northing: 3454203 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation:

Parent Material: fine-loamy marine deposits derived from sedimentary rock

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Cont. Site ID: S2015GA007005 **Pedon ID:** S2015GA007005

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
5.0	49.0	42	18.0	29.0	11.2	1,360	255	somewhat excessively	91	76.0

A--0 to 7 centimeters (0.0 to 2.8 inches); very dark brown (10YR 2/2) loamy fine sand; weak fine granular structure; friable, nonsticky, nonplastic; deformable; low excavation difficulty; many very fine roots throughout and many medium roots throughout and many fine roots throughout; clear smooth boundary. Lab sample # 18N00982

E--7 to 25 centimeters (2.8 to 9.8 inches); brown (10YR 4/3) loamy sand; weak fine granular structure; friable, nonsticky, nonplastic; deformable; low excavation difficulty; many very fine roots throughout and many medium roots throughout and many fine roots throughout; clear smooth boundary. Lab sample # 18N00983

EB--25 to 40 centimeters (9.8 to 15.7 inches); dark yellowish brown (10YR 4/6) loamy sand; 7 percent clay; weak fine subangular blocky, and weak medium subangular blocky structure; friable, nonsticky, nonplastic; deformable; low excavation difficulty; few very fine roots throughout and few medium roots throughout and few fine roots throughout; gradual wavy boundary. Lab sample # 18N00984

BE--40 to 100 centimeters (15.7 to 39.4 inches); yellowish brown (10YR 5/6) sandy loam; 8 percent clay; weak fine subangular blocky, and weak medium subangular blocky structure; friable, nonsticky, nonplastic; deformable; low excavation difficulty; few medium roots throughout and few coarse roots throughout; . Lab sample # 18N00985

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: Hatcher/Hopkins/Reynolds/Velazquez
NEON Plot ID: JERC_035
Site ID: S2015GA007006
Pedon ID: S2015GA007006

Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0126
Soil Name as Described/Sampled: Wagram
Classification: Loamy, kaolinitic, thermic Arenic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:
Physiographic Section:
State Physiographic Area:

Local Physiographic Area: Jones Ecological Research Center
Geomorphic Setting: on summit of interfluve of hillslope
on summit of interfluve of hills
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 72 to 123 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 72 cm.
argillic horizon 72 to 100 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit: BoA -- Bonneau loamy sand, 0 to 2 percent slopes
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.
Quad Name: Hopeful, Georgia
Std Latitude: 31.1832278
Std Longitude: -84.4548222

Latitude: 31 degrees 10 minutes 59.62 seconds north
Longitude: 84 degrees 27 minutes 17.36 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 742550 meters
UTM Northing: 3452699 meters

Primary Earth Cover: Crop cover
Secondary Earth Cover: Row crop
Existing Vegetation:
Parent Material: loamy marine deposits derived from sedimentary rock
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007006 **Pedon ID:** S2015GA007006

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0			18.0	29.0	11.2	1,360	255	well	90	76.0

A--0 to 17 centimeters (0.0 to 6.7 inches); black (10YR 2/1) loamy fine sand; weak very fine granular structure; very friable, nonsticky, nonplastic; deformable; common very fine roots throughout and common very coarse roots throughout and common medium roots throughout and common fine roots throughout and common coarse roots throughout; clear smooth boundary. Lab sample # 18N00986

E1--17 to 56 centimeters (6.7 to 22.0 inches); dark grayish brown (10YR 4/2) loamy fine sand; weak fine granular structure; very friable, nonsticky, nonplastic; deformable; common very fine roots throughout and common very coarse roots throughout and common medium roots throughout and common fine roots throughout and common coarse roots throughout; clear smooth boundary. Lab sample # 18N00987

E2--56 to 72 centimeters (22.0 to 28.3 inches); dark gray (10YR 4/1) loamy sand; weak fine granular structure; friable, nonsticky, nonplastic; deformable; few very fine roots throughout and common fine roots throughout; clear wavy boundary. Lab sample # 18N00988

EBt--72 to 100 centimeters (28.3 to 39.4 inches); light gray (10YR 7/2) and yellow (10YR 7/6) and strong brown (7.5YR 5/8) stratified loamy sand to sandy loam to sandy clay; weak fine granular parts to weak medium subangular blocky structure; friable, nonsticky, nonplastic; deformable; 10 percent faint clay films on all faces of peds. Lab sample # 18N00989

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 13 2015
Describer: S. Depew, A. Perez, A. Steglich, L. Crockett
NEON Plot ID: JERC_031
Site ID: S2015GA007008
Pedon ID: S2015GA007008
Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0127
Soil Name as Described/Sampled: Troup
Classification: Loamy, kaolinitic, thermic Grossarenic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Wagram
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain

Physiographic Section: East Gulf Coastal plain
State Physiographic Area:

Local Physiographic Area: Coastal Plain
Geomorphic Setting: on backslope of interfluve of None Assigned
Upslope Shape: concave
Cross Slope Shape: linear
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 105 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit:
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Quad Name:
Std Latitude: 31.2022700
Std Longitude: -84.4647000

Latitude: 31 degrees 12 minutes 8.04 seconds north
Longitude: 78 degrees 27 minutes 52.92 seconds west
Datum: WGS84
UTM Zone: 17
UTM Easting: 741560 meters
UTM Northing: 3454789 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: Sandy and Loamy Marine Deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007008 **Pedon ID:** S2015GA007008

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
								well		

A1--0 to 11 centimeters (0.0 to 4.3 inches); very dark grayish brown (10YR 3/2); weak fine granular structure; loose, nonsticky, nonplastic; very fine roots and medium roots and fine roots; abrupt smooth boundary. Lab sample # 18N00990

A2--11 to 30 centimeters (4.3 to 11.8 inches); strong brown (7.5YR 5/6); weak fine granular structure; loose, nonsticky, nonplastic; medium roots and fine roots; gradual wavy boundary. Lab sample # 18N00991

E--30 to 105 centimeters (11.8 to 41.3 inches); brown (7.5YR 5/4); weak medium subangular blocky structure; friable, nonsticky, nonplastic; very fine roots and medium roots and fine roots; abrupt smooth boundary. Lab sample # 18N00992

Bt--105 to 110 centimeters (41.3 to 43.3 inches); yellowish red (5YR 4/6); weak medium subangular blocky structure; friable, slightly sticky, slightly plastic; medium roots and fine roots; .

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 13 2015
Describer: S. Depew, A. Perez, A. Steglich, L. Crockett
NEON Plot ID: JERC_047
Site ID: S2015GA007009
Pedon ID: S2015GA007009
Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0128
Soil Name as Described/Sampled: Bigbee
Classification: Thermic, coated Typic Quartzipsamments

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Troup
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain

Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Coastal Plain
Geomorphic Setting: on footslope of None Assigned
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 11 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit:
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Quad Name:
Std Latitude: 31.1982400
Std Longitude: -84.4674000

Latitude: 31 degrees 11 minutes 53.53 seconds north
Longitude: 78 degrees 28 minutes 2.64 seconds west
Datum: WGS84
UTM Zone: 17
UTM Easting: 741312 meters
UTM Northing: 3454336 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: Sandy Marine Deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007009 **Pedon ID:** S2015GA007009

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
								excessively		

A1--0 to 11 centimeters (0.0 to 4.3 inches); dark grayish brown (10YR 4/2) loamy sand; weak fine granular structure; loose, nonsticky, nonplastic; medium roots and fine roots; abrupt smooth boundary. Lab sample # 18N00993

C1--11 to 72 centimeters (4.3 to 28.3 inches); fine sand; single grain; loose, nonsticky, nonplastic; medium roots top of horizon and fine roots top of horizon; clear wavy boundary. Lab sample # 18N00994

C2--72 to 100 centimeters (28.3 to 39.4 inches); fine sand; single grain; loose, nonsticky, nonplastic; . Lab sample # 18N00995

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: S. Depew, A. Perez, A. Steglich, L. Crockett
NEON Plot ID: JERC_048
Site ID: S2015GA007010
Pedon ID: S2015GA007010
Site Note:

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit:
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0129
Soil Name as Described/Sampled: Orangeburg
Classification: Fine-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain

Physiographic Section: East Gulf Coastal plain
State Physiographic Area:

Local Physiographic Area: Coastal Plain
Geomorphic Setting: on backslope of side slope of None Assigned
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 15 cm.

Quad Name:
Std Latitude: 31.1963200
Std Longitude: -84.4620000

Latitude: 31 degrees 11 minutes 46.62 seconds north
Longitude: 78 degrees 27 minutes 43.20 seconds west
Datum: WGS84
UTM Zone: 17
UTM Easting: 741832 meters
UTM Northing: 3454135 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: Sandy and Loamy Marine Deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007010 **Pedon ID:** S2015GA007010

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
								well		

A--0 to 15 centimeters (0.0 to 5.9 inches); brown (10YR 4/3) loamy sand; weak fine granular structure; loose, nonsticky, nonplastic; very fine roots and fine roots; clear smooth boundary. Lab sample # 18N00996

AE--15 to 39 centimeters (5.9 to 15.4 inches); dark yellowish brown (10YR 4/4) loamy sand; weak fine granular structure; loose, nonsticky, nonplastic; very fine roots and fine roots; gradual wavy boundary. Lab sample # 18N00997

Bt1--39 to 80 centimeters (15.4 to 31.5 inches); 70 percent yellowish brown (10YR 5/6) and 15 percent brownish yellow (10YR 6/8) and 15 percent pale brown (10YR 6/3) sandy loam; moderate medium subangular blocky structure; friable, nonsticky, nonplastic; very fine roots and fine roots; gradual wavy boundary. Lab sample # 18N00998

Bt2--80 to 100 centimeters (31.5 to 39.4 inches); strong brown (7.5YR 5/8) sandy clay loam; moderate medium subangular blocky structure; friable, nonsticky, slightly plastic; very fine roots and fine roots; . Lab sample # 18N00999

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 13 2015
Describer: S. Depew, A. Perez, A. Steglich, L. Crockett
NEON Plot ID: JERC_049
Site ID: S2015GA007011
Pedon ID: S2015GA007011
Site Note:

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit:
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0130
Soil Name as Described/Sampled: Troup
Classification: Loamy, kaolinitic, thermic Grossarenic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain

Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Coastal Plain
Geomorphic Setting: on backslope of crest of None Assigned
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 44 cm.

Quad Name:
Std Latitude: 31.1962700
Std Longitude: -84.4643000

Latitude: 31 degrees 11 minutes 46.44 seconds north
Longitude: 78 degrees 27 minutes 51.48 seconds west
Datum: WGS84
UTM Zone: 17
UTM Easting: 741613 meters
UTM Northing: 3454124 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: Sandy Marine Deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007011 **Pedon ID:** S2015GA007011

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
								well		

A--0 to 40 centimeters (0.0 to 15.7 inches); dark grayish brown (10YR 4/2); single grain; loose, nonsticky, nonplastic; medium roots; clear smooth boundary. Lab sample # 18N01000

AE--40 to 65 centimeters (15.7 to 25.6 inches); brown (10YR 4/3); single grain; loose, nonsticky, nonplastic; medium roots; gradual wavy boundary. Lab sample # 18N01001

E1--65 to 90 centimeters (25.6 to 35.4 inches); yellowish brown (10YR 5/4); single grain; loose, nonsticky, nonplastic; medium roots; gradual wavy boundary. Lab sample # 18N01002

E2--90 to 100 centimeters (35.4 to 39.4 inches); brownish yellow (10YR 6/6); single grain; loose, nonsticky, nonplastic; medium roots; . Lab sample # 18N01003

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: S. Depew, A. Perez, A. Steglich, L. Crockett
NEON Plot ID: JERC_002
Site ID: S2015GA007012
Pedon ID: S2015GA007012
Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0131
Soil Name as Described/Sampled: Orangeburg
Classification: Fine-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain

Physiographic Section: East Gulf Coastal plain
State Physiographic Area:

Local Physiographic Area: Coastal Plain
Geomorphic Setting: on summit of crest of None Assigned
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 36 cm.
argillic horizon 47 to 100 cm.
kandic horizon 47 to 100 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit:
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Quad Name:
Std Latitude: 31.1943700
Std Longitude: -84.4603000

Latitude: 31 degrees 11 minutes 44.84 seconds north
Longitude: 84 degrees 27 minutes 5.19 seconds west
Datum: WGS84
UTM Zone: 17
UTM Easting: 741999 meters
UTM Northing: 3453922 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: Sandy and Loamy Marine Deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007012 **Pedon ID:** S2015GA007012

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
								well		

A--0 to 16 centimeters (0.0 to 6.3 inches); dark grayish brown (10YR 4/2) loamy sand; weak fine granular structure; loose, nonsticky, nonplastic; medium roots and fine roots and coarse roots; clear wavy boundary. Lab sample # 18N01004

E1--16 to 36 centimeters (6.3 to 14.2 inches); brown (10YR 5/3) loamy sand; weak fine granular structure; loose, nonsticky, nonplastic; medium roots and fine roots and coarse roots; clear wavy boundary. Lab sample # 18N01005

E2--36 to 47 centimeters (14.2 to 18.5 inches); yellowish brown (10YR 5/4) sandy loam; weak medium subangular blocky structure; friable, nonsticky, nonplastic; medium roots and fine roots and coarse roots; clear wavy boundary. Lab sample # 18N01006

Bt1--47 to 76 centimeters (18.5 to 29.9 inches); strong brown (7.5YR 5/6) sandy clay loam; moderate coarse subangular blocky structure; friable, slightly sticky, slightly plastic; medium roots and fine roots and coarse roots; 1 percent nonflat subrounded strongly cemented Ironstone nodules; gradual smooth boundary. Lab sample # 18N01007

Bt2--76 to 100 centimeters (29.9 to 39.4 inches); yellowish red (5YR 5/6) sandy clay loam; moderate coarse subangular blocky structure; friable, slightly sticky, slightly plastic; medium roots and fine roots and coarse roots; 1 percent nonflat subrounded strongly cemented Ironstone nodules. Lab sample # 18N01008

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: J.Lobe, M.Martinez, A.Tan, S.Page
NEON Plot ID: JERC_005
Site ID: S2015GA007014
Pedon ID: S2015GA007014
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0132
Soil Name as Described/Sampled: Bonneau
Classification: Loamy, siliceous, subactive, thermic Arenic Paleudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on summit of coastal plain
on summit of fluviomarine terrace
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section: 58 to 108 cm.
Description origin: NASIS
Diagnostic Features: argillic horizon 58 to 100 cm.

Country:
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 31.1957900
Std Longitude: -84.4514410

Latitude: 31 degrees 11 minutes 40.54 seconds north
Longitude: 84 degrees 27 minutes 8.16 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 742839 meters
UTM Northing: 3454099 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material:
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007014 **Pedon ID:** S2015GA007014

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0		230						well		

A--0 to 10 centimeters (0.0 to 3.9 inches); very dark brown (10YR 2/2) loamy sand; moderate fine subangular blocky structure; very friable, nonsticky, nonplastic; common roots and and common roots; abrupt wavy boundary. Lab sample # 18N01009

AE--10 to 26 centimeters (3.9 to 10.2 inches); 60 percent dark grayish brown (10YR 4/2) and 40 percent brown (10YR 4/3) loamy sand; weak medium subangular blocky structure; very friable, nonsticky, nonplastic; common roots and and common roots and ; clear wavy boundary. Lab sample # 18N01010

E--26 to 40 centimeters (10.2 to 15.7 inches); reddish brown (2.5YR 4/3) loamy sand; weak coarse subangular blocky structure; very friable, nonsticky, nonplastic; clear wavy boundary. Lab sample # 18N01011

EB--40 to 58 centimeters (15.7 to 22.8 inches); yellowish brown (10YR 5/6) loamy sand; medium, and weak fine subangular blocky structure; very friable, nonsticky, nonplastic; gradual wavy boundary. Lab sample # 18N01012

Bt--58 to 84 centimeters (22.8 to 33.1 inches); brownish yellow (10YR 6/6) sandy clay loam; moderate medium subangular blocky structure; friable, moderately sticky, moderately plastic; gradual irregular boundary. Lab sample # 18N01013

Btx--84 to 100 centimeters (33.1 to 39.4 inches); 40 percent yellowish brown (10YR 5/6) and 25 percent light gray (10YR 7/2) and 20 percent strong brown (7.5YR 5/8) sandy clay loam; weak coarse prismatic, and moderate medium subangular blocky structure; firm, moderately sticky, moderately plastic; common roots; . Lab sample # 18N01014

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 13 2015
Describer: J.Lobe, M.Martinez, A.Tan, S.Page
NEON Plot ID: JERC_006
Site ID: S2015GA007015
Pedon ID: S2015GA007015
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0133
Soil Name as Described/Sampled: Troup
Classification: Loamy, kaolinitic, thermic Grossarenic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on summit of coastal plain
on summit of interfluve
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ? to ? cm.

Country:
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 31.1873639
Std Longitude: -84.4560000

Latitude: 31 degrees 11 minutes 14.51 seconds north
Longitude: 84 degrees 27 minutes 21.60 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 742427 meters
UTM Northing: 3453155 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material:
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007015 **Pedon ID:** S2015GA007015

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
5.0								somewhat excessively		

A--0 to 5 centimeters (0.0 to 2.0 inches); black (10YR 2/1) sand; weak fine granular structure; very friable, nonsticky, nonplastic; common medium roots and common coarse roots; abrupt wavy boundary. Lab sample # 18N01015

E--5 to 19 centimeters (2.0 to 7.5 inches); 80 percent brown (10YR 4/3) sand; single grain; loose, nonsticky, nonplastic; common very fine roots and common fine roots; clear wavy boundary. Lab sample # 18N01016

E1--19 to 60 centimeters (7.5 to 23.6 inches); yellowish brown (10YR 5/4) sand; single grain; loose, nonsticky, nonplastic; common very fine roots; gradual wavy boundary. Lab sample # 18N01017

E2--60 to 84 centimeters (23.6 to 33.1 inches); light yellowish brown (10YR 6/4) sand; single grain; loose, nonsticky, nonplastic; common coarse roots; gradual wavy boundary. Lab sample # 18N01018

E3--84 to 100 centimeters (33.1 to 39.4 inches); light yellowish brown (10YR 6/4) loamy sand; weak fine subangular blocky, and single grain; loose, nonsticky, nonplastic; common very fine roots; gradual wavy boundary. Lab sample # 18N01019

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: J.Lobe, M.Martinez, A.Tan, S.Page
NEON Plot ID: JERC_008
Site ID: S2015GA007016
Pedon ID: S2015GA007016
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0134
Soil Name as Described/Sampled: Benevolence
Classification: Coarse-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on summit of coastal plain
on summit of fluviomarine terrace
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 39 to 89 cm.
Description origin: NASIS
Diagnostic Features: argillic horizon 39 to 100 cm.

Country:
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 31.1949833
Std Longitude: -84.4510833

Latitude: 31 degrees 11 minutes 41.94 seconds north
Longitude: 84 degrees 27 minutes 3.90 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 742876 meters
UTM Northing: 3454011 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material:
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007016 **Pedon ID:** S2015GA007016

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
2.0		220						well		

A--0 to 9 centimeters (0.0 to 3.5 inches); very dark brown (10YR 2/2) loamy sand; common roots and and common roots; . Lab sample # 18N01020

E1--9 to 22 centimeters (3.5 to 8.7 inches); dark yellowish brown (10YR 3/4) loamy sand; weak fine subangular blocky, and single grain; common roots and common roots; . Lab sample # 18N01021

E2--22 to 39 centimeters (8.7 to 15.4 inches); dark yellowish brown (10YR 4/4) loamy sand; weak coarse subangular blocky structure; common roots and common roots and ; . Lab sample # 18N01022

Bt1--39 to 60 centimeters (15.4 to 23.6 inches); strong brown (7.5YR 4/6) sandy loam; weak medium subangular blocky structure; common roots; 2 percent clay films. Lab sample # 18N01023

Bt2--60 to 91 centimeters (23.6 to 35.8 inches); yellowish red (5YR 5/8) sandy loam; weak medium subangular blocky structure; coarse roots; . Lab sample # 18N01024

Bt3--91 to 100 centimeters (35.8 to 39.4 inches); strong brown (7.5YR 5/6) sandy loam; moderate medium subangular blocky structure; coarse roots; . Lab sample # 18N01025

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: S. Depew, A. Perez, A. Steglich, L. Crockett
NEON Plot ID: JERC_009
Site ID: S2015GA007017
Pedon ID: S2015GA007017
Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0135
Soil Name as Described/Sampled: Orangeburg
Classification: Fine-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain

Physiographic Section: East Gulf Coastal plain
State Physiographic Area:

Local Physiographic Area: Coastal Plain
Geomorphic Setting: on backslope of side slope of None Assigned
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 24 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit:
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Quad Name:
Std Latitude: 31.1948600
Std Longitude: -84.4570000

Latitude: 31 degrees 11 minutes 41.36 seconds north
Longitude: 78 degrees 27 minutes 25.20 seconds west
Datum: WGS84
UTM Zone: 17
UTM Easting: 742312 meters
UTM Northing: 3453984 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: Sandy and Loamy Marine Deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007017 **Pedon ID:** S2015GA007017

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
								well		

A--0 to 6 centimeters (0.0 to 2.4 inches); very dark gray (10YR 3/1) loamy sand; single grain; loose, nonsticky, nonplastic; medium roots and fine roots; clear smooth boundary. Lab sample # 18N01026

E--6 to 24 centimeters (2.4 to 9.4 inches); dark grayish brown (10YR 4/2) loamy sand; single grain; loose, nonsticky, nonplastic; fine roots and coarse roots; clear wavy boundary. Lab sample # 18N01027

Bt1--24 to 39 centimeters (9.4 to 15.4 inches); 80 percent brown (7.5YR 4/4) and 20 percent strong brown (7.5YR 4/6) sandy loam; weak medium subangular blocky structure; friable, slightly sticky, slightly plastic; fine roots; Organic Stains 7.5YR 3/2; clear wavy boundary. Lab sample # 18N01028

Bt2--39 to 64 centimeters (15.4 to 25.2 inches); strong brown (7.5YR 4/6) sandy clay loam; weak medium subangular blocky structure; friable, slightly sticky, slightly plastic; 2 percent nonflat subrounded strongly cemented Ironstone nodules; clear wavy boundary. Lab sample # 18N01029

Bt3--64 to 100 centimeters (25.2 to 39.4 inches); strong brown (7.5YR 5/8) sandy clay loam; friable, slightly sticky, slightly plastic; . Lab sample # 18N01030

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 15 2015
Describer: J.Lobe, M.Martinez, A.Tan, S.Page
NEON Plot ID: JERC_015
Site ID: S2015GA007019
Pedon ID: S2015GA007019
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0136
Soil Name as Described/Sampled: Norfolk
Classification: Fine-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on backslope of coastal plain
on backslope of fluviomarine terrace
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 43 to 93 cm.
Description origin: NASIS
Diagnostic Features: argillic horizon 43 to 100 cm.

Country:
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 31.1904833
Std Longitude: -84.4542778

Latitude: 31 degrees 11 minutes 25.74 seconds north
Longitude: 84 degrees 27 minutes 15.40 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 742583 meters
UTM Northing: 3453505 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material:
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007019 **Pedon ID:** S2015GA007019

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	48.0	230						well		

A--0 to 6 centimeters (0.0 to 2.4 inches); loamy sand; weak medium granular structure; very friable; common roots and and common roots; abrupt wavy boundary. Lab sample # 18N01031

E1--6 to 12 centimeters (2.4 to 4.7 inches); loamy sand; weak medium subangular blocky structure; very friable; common roots and and common roots and ; abrupt wavy boundary. Lab sample # 18N01032

E2--12 to 28 centimeters (4.7 to 11.0 inches); loamy sand; weak coarse subangular blocky, and medium structure; very friable; common roots and common roots; gradual wavy boundary. Lab sample # 18N01033

BE--28 to 43 centimeters (11.0 to 16.9 inches); loamy sand; weak coarse subangular blocky structure; very friable; and common roots; gradual wavy boundary. Lab sample # 18N01034

Bt1--43 to 84 centimeters (16.9 to 33.1 inches); sandy loam; weak coarse subangular blocky structure; very friable; and common roots; 4 percent 10YR 6/3) clay films on surfaces along root channels; 2 percent fine plinthite nodules; gradual wavy boundary. Lab sample # 18N01035

Bt2--84 to 100 centimeters (33.1 to 39.4 inches); sandy clay loam; moderate medium subangular blocky structure; friable; 30 percent clay films on all faces of peds. Lab sample # 18N01036

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: S. Depew, A. Perez, A. Steglich, L. Crockett
NEON Plot ID: JERC_033
Site ID: S2015GA007021
Pedon ID: S2015GA007021
Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0137
Soil Name as Described/Sampled: Orangeburg
Classification: Fine-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain

Physiographic Section: East Gulf Coastal plain
State Physiographic Area:

Local Physiographic Area: Coastal Plain
Geomorphic Setting: None Assigned
Upslope Shape: convex
Cross Slope Shape: convex
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 31 cm.
argillic horizon 47 to 100 cm.
kandic horizon 47 to 100 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit:
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Quad Name:
Std Latitude: 31.1919500
Std Longitude: -84.4562000

Latitude: 31 degrees 11 minutes 30.89 seconds north
Longitude: 84 degrees 27 minutes 22.32 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 742396 meters
UTM Northing: 3453663 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: Sandy and Loamy Marine Deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007021 **Pedon ID:** S2015GA007021

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
								well		

A--0 to 10 centimeters (0.0 to 3.9 inches); dark grayish brown (10YR 4/2) loamy sand; weak fine granular structure; loose, nonsticky, nonplastic; medium roots and fine roots and coarse roots; clear wavy boundary. Lab sample # 18N01037

AE--10 to 31 centimeters (3.9 to 12.2 inches); dark yellowish brown (10YR 4/4) loamy sand; weak fine granular structure; loose, nonsticky, nonplastic; medium roots and fine roots and coarse roots; clear wavy boundary. Lab sample # 18N01038

E--31 to 47 centimeters (12.2 to 18.5 inches); yellowish brown (10YR 5/4) sandy loam; weak fine granular structure; friable, nonsticky, nonplastic; medium roots and fine roots and coarse roots; clear wavy boundary. Lab sample # 18N01039

B1--47 to 79 centimeters (18.5 to 31.1 inches); strong brown (7.5YR 4/6) sandy clay loam; weak medium subangular blocky structure; friable, nonsticky, nonplastic; medium roots and fine roots and coarse roots; 2 percent nonflat subrounded very strongly cemented Ironstone nodules; gradual wavy boundary. Lab sample # 18N01040

B2--79 to 100 centimeters (31.1 to 39.4 inches); strong brown (7.5YR 5/8) sandy clay loam; weak medium subangular blocky structure; friable, nonsticky, nonplastic; coarse roots; 2 percent nonflat subrounded very strongly cemented Ironstone nodules. Lab sample # 18N01041

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 15 2015
Describer: C. Hatcher, J. Velazquez, G. Reynolds, D. Hopkins
NEON Plot ID: JERC_019
Site ID: S2015GA007022

Pedon ID: S2015GA007022

Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0138
Soil Name as Described/Sampled: Hornsville
Classification: Fine, kaolinitic, thermic Aquic Hapludults

Soil Name as Correlated:

Classification:
Pedon Type: confirmation description
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Lucy, Norfolk, Orangeburg
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:

Local Physiographic Area: Jones Ecological Research
Geomorphic Setting: on summit of side slope of hills
on summit of side slope of interfluve
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 8 cm.
argillic horizon 13 to 100 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: GA603 -- Baker and Mitchell Counties, Georgia
7-TIF -- Tifton, Georgia
Map Unit: HvA -- Hornsville fine sandy loam, 0 to 2 percent slopes
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.
Quad Name: Hopeful, Georgia
Std Latitude: 31.1872570
Std Longitude: -84.4708760

Latitude: 31 degrees 11 minutes 14.12 seconds north
Longitude: 84 degrees 28 minutes 15.15 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 741009 meters
UTM Northing: 3453111 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: clayey marine deposits derived from sedimentary rock
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007022 **Pedon ID:** S2015GA007022

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	39.6	90	18.0	29.0	11.2	1,360	255	well	76	100.0

A--0 to 8 centimeters (0.0 to 3.1 inches); very fine sandy loam; weak fine granular structure; very friable, nonsticky, nonplastic; deformable; low excavation difficulty; very fine roots throughout and medium roots throughout and fine roots throughout and coarse roots throughout; clear smooth boundary. Lab sample # 18N01042

BE--8 to 13 centimeters (3.1 to 5.1 inches); very fine sandy loam; weak fine granular structure; very friable, nonsticky, nonplastic; deformable; low excavation difficulty; very fine roots throughout and medium roots throughout and fine roots throughout and coarse roots throughout; clear wavy boundary. Lab sample # 18N01043

Bt1--13 to 43 centimeters (5.1 to 16.9 inches); fine sandy loam; moderate fine subangular blocky, and moderate medium subangular blocky structure; friable, nonsticky, nonplastic; semideformable; low excavation difficulty; very fine roots throughout and very coarse roots throughout and medium roots throughout and fine roots throughout and coarse roots throughout; 10 percent faint clay films on vertical faces of peds; clear wavy boundary. Lab sample # 18N01044

Bt2--43 to 100 centimeters (16.9 to 39.4 inches); sandy clay; moderate medium subangular blocky, and moderate coarse subangular blocky structure; firm, moderately sticky, moderately plastic; nonfluid; high excavation difficulty; very fine roots throughout and very coarse roots throughout and fine roots throughout; 25 percent faint clay films on all faces of peds; fine prominent irregular 10YR 2/1), moist, manganese masses with sharp boundaries Throughout. Lab sample # 18N01045

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: Burns, Nichols, Lene, Moore
NEON Plot ID: JERC_021
Site ID: S2015GA007024
Pedon ID: S2015GA007024
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0139
Soil Name as Described/Sampled: Faceville
Classification: Fine, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: research site
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:
Local Physiographic Area: Jones Ecological
Geomorphic Setting: on summit of interfluve of None Assigned
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section: 50 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 15 cm.
argillic horizon 50 to 100 cm.

Country:
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name: Hopeful, Georgia
Std Latitude: 31.1755556
Std Longitude: -84.4692500

Latitude: 31 degrees 10 minutes 32.00 seconds north
Longitude: 84 degrees 28 minutes 9.30 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 741194 meters
UTM Northing: 3451817 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation:
Parent Material: loamy fluviomarine deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007024 **Pedon ID:** S2015GA007024

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
3.0	36.0		19.6			1,312	245	well		

Ap--0 to 15 centimeters (0.0 to 5.9 inches); dark grayish brown (10YR 4/2) fine sandy loam; 12 percent clay; moderate medium granular structure; very friable; many very fine roots throughout and many fine roots throughout; strongly acid, pH 5.3; clear wavy boundary. Lab sample # 18N01046

E--15 to 32 centimeters (5.9 to 12.6 inches); dark yellowish brown (10YR 4/4) fine sandy loam; 12 percent clay; weak fine subangular blocky structure; friable; many very fine roots between peds and very few fine roots between peds; strongly acid, pH 5.3; gradual wavy boundary. Lab sample # 18N01047

BE--32 to 50 centimeters (12.6 to 19.7 inches); dark yellowish brown (10YR 4/6) fine sandy loam; 14 percent clay; weak medium subangular blocky structure; friable; many fine roots between peds; strongly acid, pH 5.3; clear smooth boundary. Lab sample # 18N01048

Bt1--50 to 70 centimeters (19.7 to 27.6 inches); strong brown (7.5YR 4/6) sandy clay loam; 24 percent clay; moderate medium subangular blocky structure; friable; very few fine roots between peds; 5 percent faint clay films on all faces of peds; very strongly acid, pH 4.8; clear smooth boundary. Lab sample # 18N01049

Bt2--70 to 100 centimeters (27.6 to 39.4 inches); yellowish red (5YR 4/6) clay loam; 36 percent clay; moderate medium subangular blocky structure; firm; very few fine roots between peds; 5 percent distinct clay films on all faces of peds; very strongly acid, pH 4.8. Lab sample # 18N01050

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: Burns, Nichols, Lene, Moore
NEON Plot ID: JERC_028
Site ID: S2015GA007025
Pedon ID: S2015GA007025
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0140
Soil Name as Described/Sampled: Nankin
Classification: Fine, kaolinitic, thermic Typic Kanhapludults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: research site
Taxon Kind: taxadjunct
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:

Local Physiographic Area:
Geomorphic Setting: on riser of coastal plain
on riser of terrace
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section: 15 to 65 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 15 cm.
argillic horizon 15 to 100 cm.
kandic horizon 15 to 100 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 31.1825556
Std Longitude: -84.4782222

Latitude: 31 degrees 10 minutes 57.20 seconds north
Longitude: 84 degrees 28 minutes 41.60 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 740321 meters
UTM Northing: 3452573 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: Old Alluvium/ fluviomarine deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007025 **Pedon ID:** S2015GA007025

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
3.0	40.0		19.6			1,312	245	well		

A--0 to 15 centimeters (0.0 to 5.9 inches); very dark grayish brown (10YR 3/2) fine sandy loam; 16 percent clay; moderate medium granular structure; friable, nonsticky, nonplastic; common very fine roots and common fine roots; common fine interstitial pores; clear wavy boundary. Lab sample # 18N01051

Bt1--15 to 47 centimeters (5.9 to 18.5 inches); 80 percent light yellowish brown (10YR 6/4) and 20 percent very pale brown (10YR 7/3) sandy clay loam; 22 percent clay; weak medium subangular blocky structure; very firm, nonsticky, nonplastic; few medium roots and common fine roots; common fine dendritic tubular pores; 15 percent distinct clay bridges on all faces of peds; clear smooth boundary. Lab sample # 18N01052

Bt2--47 to 100 centimeters (18.5 to 39.4 inches); strong brown (7.5YR 4/6) clay; 42 percent clay; moderate medium subangular blocky structure; firm, nonsticky, nonplastic; few medium roots and few fine roots; few fine dendritic tubular pores; 35 percent distinct clay films on all faces of peds. Lab sample # 18N01053

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 15 2015
Describer: Burns, Nichols, Lene, Moore
NEON Plot ID: JERC_029
Site ID: S2015GA007026
Pedon ID: S2015GA007026
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0141
Soil Name as Described/Sampled:
Classification:

Soil Name as Correlated: Wagram

Classification: Loamy, kaolinitic, thermic Arenic Kandiudults
Pedon Type: undefined observation
Pedon Purpose: research site
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:
Physiographic Section:
State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on interfluve of None Assigned
Upslope Shape: convex
Cross Slope Shape: convex
Particle Size Control Section: 70 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 70 cm.
argillic horizon 70 to 100 cm.
kandic horizon 70 to 100 cm.

Country:
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name: Hopeful, Georgia
Std Latitude: 31.1867333
Std Longitude: -84.4646056

Latitude: 31 degrees 11 minutes 12.24 seconds north
Longitude: 84 degrees 27 minutes 52.58 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 741608 meters
UTM Northing: 3453066 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Native shrubs
Existing Vegetation:
Parent Material: fluviomarine deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007026 **Pedon ID:** S2015GA007026

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
2.0	45.0		19.6			1,312	245	somewhat excessively		

Ap--0 to 19 centimeters (0.0 to 7.5 inches); very dark grayish brown (10YR 3/2) loamy sand; weak fine granular structure; very friable; very few medium roots throughout and common fine roots throughout; clear smooth boundary. Lab sample # 18N01054

E1--19 to 40 centimeters (7.5 to 15.7 inches); dark yellowish brown (10YR 4/4) loamy sand; weak fine subangular blocky structure; very friable; very few fine roots throughout; clear smooth boundary. Lab sample # 18N01055

E2--40 to 70 centimeters (15.7 to 27.6 inches); brownish yellow (10YR 6/8) loamy sand; weak fine subangular blocky structure; very friable; very few fine roots between peds; clear smooth boundary. Lab sample # 18N01056

Bt--70 to 100 centimeters (27.6 to 39.4 inches); yellowish brown (10YR 5/8) sandy loam; moderate medium subangular blocky structure; friable; very few fine roots between peds; 10 percent faint clay bridges between sand grains. Lab sample # 18N01057

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 14 2015
Describer: Burns, Nichols, Lene, Moore
NEON Plot ID: JERC_030
Site ID: S2015GA007027
Pedon ID: S2015GA007027
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0142
Soil Name as Described/Sampled: Norfolk
Classification: Fine-loamy, kaolinitic, thermic Typic Kandiudults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: research site
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:
Local Physiographic Area: Jones Ecological
Geomorphic Setting: on summit of interfluve of None Assigned
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section: 32 to 82 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 15 cm.
argillic horizon 32 to 100 cm.
kandic horizon 32 to 100 cm.

Country:
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name: Hopeful, Georgia
Std Latitude: 31.1850278
Std Longitude: -84.4762778

Latitude: 31 degrees 11 minutes 6.10 seconds north
Longitude: 84 degrees 28 minutes 34.60 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 740500 meters
UTM Northing: 3452852 meters

Primary Earth Cover: Grass/herbaceous cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation:
Parent Material: loamy fluviomarine deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007027 **Pedon ID:** S2015GA007027

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
2.0	36.0		19.6			1,312	245	well		

Ap--0 to 15 centimeters (0.0 to 5.9 inches); brown (10YR 4/3) loamy fine sand; 8 percent clay; moderate fine granular structure; very friable; many very fine roots throughout and many fine roots throughout; strongly acid, pH 5.3; abrupt smooth boundary. Lab sample # 18N01058

AE--15 to 32 centimeters (5.9 to 12.6 inches); yellowish brown (10YR 5/4) loamy fine sand; 8 percent clay; weak fine granular structure; very friable; very fine roots throughout and fine roots throughout; strongly acid, pH 5.3; clear wavy boundary. Lab sample # 18N01059

Bt1--32 to 62 centimeters (12.6 to 24.4 inches); dark yellowish brown (10YR 4/6) sandy clay loam; 23 percent clay; weak medium subangular blocky structure; friable; distinct clay films on all faces of peds; very strongly acid, pH 4.8; clear smooth boundary. Lab sample # 18N01060

Bt2--62 to 83 centimeters (24.4 to 32.7 inches); strong brown (7.5YR 4/6) sandy clay loam; 28 percent clay; moderate medium subangular blocky structure; friable; distinct clay films on all faces of peds; very strongly acid, pH 4.8; clear smooth boundary. Lab sample # 18N01061

Bt3--83 to 100 centimeters (32.7 to 39.4 inches); strong brown (7.5YR 4/6) sandy clay loam; 30 percent clay; moderate medium subangular blocky structure; friable; distinct clay films on vertical faces of peds; 15 percent medium prominent 5YR 4/6), moist, masses of oxidized iron Between peds and 25 percent medium distinct 10YR 7/2), moist, iron depletions Between peds; very strongly acid, pH 4.8. Lab sample # 18N01062

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 15 2015
Describer: Burns, Nichols, Lene, Moore
NEON Plot ID: JERC_013
Site ID: S2015GA007028
Pedon ID: S2015GA007028
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0143
Soil Name as Described/Sampled: Nankin
Classification: Fine, kaolinitic, thermic Typic Kanhapludults

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: research site
Taxon Kind: taxadjunct
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:
State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: interfluve
coastal plain
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section: 20 to 70 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 20 cm.
argillic horizon 20 to 100 cm.

Country:
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area:
Map Unit:
Pit Location:
Quad Name: Hopeful, Georgia
Std Latitude: 31.1782778
Std Longitude: -84.4701667

Latitude: 31 degrees 10 minutes 41.80 seconds north
Longitude: 84 degrees 28 minutes 12.60 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 741099 meters
UTM Northing: 3452117 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Intermixed conifers and hardwoods
Existing Vegetation:
Parent Material: clayey marine deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007028 **Pedon ID:** S2015GA007028

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
2.0	36.0		19.6			1,312	245	well		

A--0 to 4 centimeters (0.0 to 1.6 inches); very dark grayish brown (10YR 3/2) fine sandy loam; 15 percent clay; moderate medium granular structure; very friable; clear smooth boundary. Lab sample # 18N01063

AE--4 to 20 centimeters (1.6 to 7.9 inches); 60 percent dark yellowish brown (10YR 4/4) and 40 percent brown (10YR 4/3) fine sandy loam; 15 percent clay; moderate medium granular structure; very friable; clear smooth boundary. Lab sample # 18N01064

Bt1--20 to 50 centimeters (7.9 to 19.7 inches); yellowish red (5YR 5/6) clay loam; 38 percent clay; weak medium subangular blocky structure; friable; clear smooth boundary. Lab sample # 18N01065

Bt2--50 to 65 centimeters (19.7 to 25.6 inches); strong brown (7.5YR 4/6) clay loam; 38 percent clay; moderate medium subangular blocky structure; friable; 10 percent medium distinct 7.5YR 6/6), moist, masses of oxidized iron On faces of peds; gradual smooth boundary. Lab sample # 18N01066

Bt3--65 to 100 centimeters (25.6 to 39.4 inches); 60 percent strong brown (7.5YR 5/8) and 20 percent yellowish red (5YR 4/6) clay loam; 36 percent clay; moderate medium subangular blocky structure; firm; 20 percent medium distinct 10YR 7/2), moist, masses of reduced iron On faces of peds. Lab sample # 18N01067

PEDON DESCRIPTION -- NEON Site JERC

Print Date: Nov 6 2018
Description Date: Oct 15 2015
Describer: S. Depew, A. Perez, A. Steglich, L. Crockett
NEON Plot ID: JERC_016
Site ID: S2015GA007029
Pedon ID: S2015GA007029
Site Note:

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N0144
Soil Name as Described/Sampled: Bigbee
Classification: Thermic, coated Typic Quartzipsamments

Soil Name as Correlated:

Classification:
Pedon Type: undefined observation
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils:
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Coastal Plain
Geomorphic Setting: None Assigned
Upslope Shape: convex
Cross Slope Shape: convex
Particle Size Control Section:
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 16 cm.

Country: United States
State: Georgia
County: Baker
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: 7-TIF -- Tifton, Georgia
Map Unit:
Pit Location: Site was sampled one meter north (360 degrees) and one meter east (90 degrees)of the southwest(225 degrees) corner. Samples were collected on the north (360 degrees) face of the one meter by one meter by one meter pit.

Quad Name:
Std Latitude: 31.1804694
Std Longitude: -84.4723130

Latitude: 31 degrees 10 minutes 49.70 seconds north
Longitude: 84 degrees 28 minutes 20.32 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 740889 meters
UTM Northing: 3452355 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: Sandy Marine Deposits
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2015GA007029 **Pedon ID:** S2015GA007029

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
								excessively		

A--0 to 16 centimeters (0.0 to 6.3 inches); dark grayish brown (10YR 4/2) fine sand; single grain; loose, nonsticky, nonplastic; very fine roots and medium roots and fine roots; gradual wavy boundary. Lab sample # 18N01068

C1--16 to 38 centimeters (6.3 to 15.0 inches); brown (10YR 5/3) fine sand; single grain; loose, nonsticky, nonplastic; very fine roots and medium roots and fine roots; gradual wavy boundary. Lab sample # 18N01069

C2--38 to 60 centimeters (15.0 to 23.6 inches); yellowish brown (10YR 5/4) fine sand; single grain; loose, nonsticky, nonplastic; very fine roots and medium roots and fine roots; clear smooth boundary. Lab sample # 18N01070

C3--60 to 86 centimeters (23.6 to 33.9 inches); pale brown (10YR 6/3) fine sand; single grain; loose, nonsticky, nonplastic; coarse roots; clear smooth boundary. Lab sample # 18N01071

C4--86 to 100 centimeters (33.9 to 39.4 inches); 60 percent very pale brown (10YR 7/3) and 40 percent light yellowish brown (10YR 6/4) fine sand; single grain; loose, nonsticky, nonplastic; coarse roots; . Lab sample # 18N01072