

FLORIDA.

PRIMARY TRAVERSE.

Ates Creek, Boulogne, Cambon, Fernandina, Green Cove Springs, Hilliard, Jacksonville, Lake Butler, Lawtey, Macclenny, Mayport, Middleburg, Moniac, Orange Park, Palm Valley, St. Augustine, St. Marys, and Sanderson quadrangles.

BAKER, BRADFORD, CLAY, DUVAL, NASSAU, AND ST. JOHN COUNTIES.

The following geographic positions, on North American datum, were determined in 1917 and are based on Coast and Geodetic Survey triangulation stations in this area.

The traverse was done as follows: In Ates Creek, Green Cove Springs, Middleburg, Palm Valley, and St. Augustine quadrangles by C. B. Kendall; in Lake Butler, Lawtey, Macclenny, Moniac, and Sanderson quadrangles by H. S. Senseney; in Boulogne quadrangle by E. L. McNair and Senseney; in Cambon quadrangle by Kendall, McNair, and Senseney; in Hilliard quadrangle by Senseney, McNair, and J. B. Leavitt; in Jacksonville quadrangle by McNair, Kendall, and Leavitt; in Mayport quadrangle by Kendall and Leavitt; in Orange Park quadrangle by Kendall and Leavitt; and in St. Marys quadrangle by Leavitt, Kendall, and Senseney.

ATES CREEK QUADRANGLE.

Along highways near north border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Fect.
T. 6 S., R. 25 E., quarter corner between secs. 12 and 13, 60 feet east of bridge over small stream; stake marked "1/4 S. 13" on south side and "1/4 S. 12" on north side.....	29 58 58.7	81 45 23.6	.....
T. 6 S., R. 25 E., corner of secs. 11, 12, 13, and 14, 50 feet northeast of northeast corner of garden fence, center of road, opposite stake on north side.....	29 58 58.2	81 45 53.6	2,639
Crossroads, 160 feet west of, 510 feet east of T road north, on north side of road; pine stake.....	29 58 57.9	81 46 54.8	5,390
Dowling & Shands lumber railroad crossing, center of track, 370 feet east of pole bridge over small stream.....	29 58 57.1	81 47 26.1	2,751
Southern Cattle Feed Company's hotel, The Longbranch, center of road opposite, 340 feet east of T road north through gate.....	29 58 56.2	81 48 42.8	6,750
T road south through gate; center of road opposite.....	29 58 55.5	81 49 43.3	5,320
Southern Cattle Feed Company's wire fence; center of road opposite northwest corner (may be section corner).....	29 58 55.1	81 50 22.7	3,470
Road forks east and northeast, 0.5 mile east of Black Creek bridge, 12 feet south to telephone pole, 15 feet north to leaning oak, 790 feet east of plank bridge over small stream.....	29 58 54.4	81 50 42.2	1,716
Black Creek; center of bridge over.....	29 58 41.81	81 51 07.73	2,583
T road south to Waller post office 0.5 mile distant, main road makes slight bend to north, and three fences corner here, possibly section corner.....	29 58 39.8	81 52 36.3	7,794
Three-pronged live-oak tree, on south edge of road, at small stream crossing.....	29 58 45.9	81 53 27.4	4,540
Camphor Farm store and headquarters, 0.2 mile north of, at intersection of Green Cove Spring-Starko road with Jacksonville-Melrose road, 35 feet north by 20 feet east of intersection of crossroads; iron post stamped "Prim. Trav. Sta. No. 13, K 1917"; azimuth to top of cross on church 800 feet distant, 324° 38' 45".....	29 58 39.9	81 54 08.6	3,677
Cypress Pond, forks of road at north end, roads northwest and southwest.....	29 58 54.4	81 56 04.0	10,255
Bull Creek, center of ford, 30 feet west to pine stump.....	29 59 18.2	81 56 46.7	4,458
Wire gate across road.....	29 59 18.0	81 56 55.0	726

ATES CREEK QUADRANGLE—Continued.

Along highways near north border of quadrangle—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road forks, roads south and southeast, 200 feet southeast of corner of rail fence.....	29 59 32.3	81 57 43.6	4,519
T road north to Middleburg, 2.5 miles east of Kingsley Lake, 10 feet south to signboard, 20 feet north to bridge.....	29 59 45.4	81 58 04.9	2,290
Plank bridge over small stream.....	29 59 14.5	81 59 07.2	6,311
Tie point on Starke quadrangle, Kingsley Lake Prim. Trav. Sta. No. 67, 1911.....	29 58 45.6	82 00 20.1	7,045

Magnetic declination near north border of quadrangle, 0.6° W.

BOULOGNE QUADRANGLE.

Along Atlantic Coast Line R. R. (By E. L. McNair.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Public road crossing.....	30 45 40.2	81 58 54.3	.....
Boulogne flag station, 50 feet N. 40° W. of, 24 feet S. 57° W. from nearest rail, 173 feet S. 30° E. from road crossing, 2 feet east of fence line; Coast and Geodetic Survey bench mark stamped "U. S. C. & G. S. B. M. P ₇ "; azimuth to top of semaphore post 6065, 317° 55' 50".....	30 46 26.6	81 59 42.1	6,276

Along highways near south border of quadrangle. (By H. S. Senseney.)

Boulogne; Coast and Geodetic Survey bench mark P ₇ (previously listed).....	30 46 26.6	81 59 42.1	.....
Road forks at signboard painted "Boulogne, $\frac{1}{4}$ mile".....	30 46 23.2	81 58 53.3	4,272
Road forks, three fence posts south.....	30 46 35.9	81 58 22.7	2,960
Crossroads, blazed pine north.....	30 46 41.0	81 57 36.9	4,032
Crossroads at signboard painted "To Highway Park ferry".....	30 46 48.4	81 57 11.6	2,327
Crossroads, blazed oak northwest.....	30 46 43.6	81 56 26.0	4,013
Crossroads.....	30 46 54.9	81 55 30.8	4,949
Road forks at signboard painted "Boulogne—Traders Hill".....	30 47 03.7	81 54 46.6	3,955
Road forks at signboard painted "Boulogne—Traders Hill".....	30 47 34.8	81 53 22.0	8,018
Railroad crossing.....	30 47 26.6	81 52 19.2	5,539
Foot bridge, at west end of; road forks.....	30 46 59.5	81 51 05.6	6,977
T road west at signboard painted "Hilliard, 9 miles".....	30 47 00.4	81 50 27.9	3,294
Kings Ferry, at northwest corner of crossroads at E. H. Had-dock's store; iron post stamped "Prim. Trav. Sta. No. 11, S. 1917"; azimuth to peak of W. J. Carleton's barn, 78° 54' 45".....	30 47 04.00	81 50 20.24	762
Crossroads, blazed pine west of.....	30 45 56.2	81 48 57.8	9,931
Crossroads.....	30 45 17.8	81 47 58.7	6,515
Crossroads, vacant house west of; blazed pine north.....	30 45 07.8	81 47 42.4	1,734

Magnetic declination along south border of quadrangle, 1.2° E.

CAMBON QUADRANGLE.

Along Atlantic Coast Line R. R. (By E. L. McNair.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road crossing; center of double track roadbed.....	30 24 31.3	81 45 11.6	(2,410)
Dinsmore station, 1,050 feet southeast of; road crossing.....	30 25 39.2	81 45 50.7	7,670
Dinsmore station, 750 feet northwest of, 90 feet southwest of public-road crossing, 40 feet from track, on bank; iron post stamped "Prim. Trav. Sta. No. 1, 1917, Mac"; azimuth to semaphore post, 154° 56' 25".....	30 25 55.2	81 46 00.5	1,830
Dinsmore station, 0.80 mile northwest of, at spur line to saw-mill, at switchstand; center of double track.....	30 26 31.6	81 46 20.9	4,087
Road crossing; center of double track.....	30 27 12.8	81 46 44.7	4,660
Public-road crossing; center of double track.....	30 27 45.6	81 47 03.7	3,705
Private-road crossing, between tracks.....	30 29 26.9	81 48 00.6	11,379

Magnetic declination for line, 0° 55' E.

CAMBON QUADRANGLE—Continued.

Along Seaboard Air Line Ry. from Baldwin to Crawford. (By H. S. Senseney.)

Station.	Latitude.			Longitude.			Distance between stations.
Baldwin triangulation station of U. S. Coast and Geodetic Survey at Baldwin Junction, on Florida Central & Peninsular R. R., near southeast corner of reclaimed land on which office building stands. Station is 33 feet 2.5 inches west of east rail of north-and-south line, 206 feet 8 inches south of south rail of east-and-west line. Marked by 8-inch terra-cotta pipe set in ground and projecting a few inches; pipe is filled with cement mortar in which is embedded a $\frac{1}{4}$ -inch iron rod to mark center.	30	17	59.10	81	58	31.81	Feet.
Negro church, where footpath crosses railroad at.	30	17	57.8	81	58	59.5	2,430
Road crossing.	30	17	52.2	81	59	51.3	4,575
Baldwin, crossing of Seaboard Air Line and Atlantic Coast Line railroads.	30	18	37.1	81	58	16.8	.....
Road crossing.	30	19	08.9	81	58	04.6	3,385
Road crossing, 180 feet south, in platform.	30	21	14.1	81	57	16.5	13,330
Cay Town, road crossing at.	30	22	27.9	81	56	48.1	7,860
Bryceville, road crossing near sawmill.	30	23	04.6	81	56	34.0	3,905
Bryceville, at southwest corner of M. E. Church; iron post stamped "Prim. Trav. Sta. No. 2, S 1917".	30	23	08.6	81	56	30.3	520
Road crossing.	30	23	29.6	81	56	24.4	2,181
Ingleborne, road crossing at.	30	25	08.0	81	55	46.4	10,485
Road crossing.	30	26	09.3	81	55	22.8	6,530
Verdie, road crossing at.	30	26	29.7	81	55	15.0	2,170
Road crossing, 165 feet north of milepost 35.	30	28	11.4	81	54	35.7	10,825
Milepost 34.	30	28	54.7	81	54	06.2	5,090
Milepost 33.	30	29	37.2	81	53	31.0	5,280

On highway west of Bryceville.

Bryceville, road crossing near sawmill (previously described).	30	23	04.6	81	56	34.0	.....
Small creek.	30	23	11.2	81	56	42.4	998
Small creek.	30	23	49.6	81	58	51.7	11,963

Magnetic declination near Bryceville, $1^{\circ} 19' E.$

From Baldwin east along Seaboard Air Line Ry. in south part of quadrangle. (By C. B. Kendall.)

Baldwin triangulation station of U. S. Coast and Geodetic Survey (already described).	30	17	59.10	81	58	31.81	.....
Road crossing, center of track.	30	18	05.8	81	57	46.1	4,061
Milepost J 17; center of track opposite.	30	18	13.5	81	56	34.2	6,350
Saucer siding, spur switch, road crossing.	30	18	17.5	81	55	56.7	3,320
Milepost J 16; center of track opposite.	30	18	19.9	81	55	34.2	1,980
Milepost J 15.	30	18	26.3	81	54	34.3	5,291
Otis station, road crossing at, 20 feet southwest of platform and 220 feet west of signboard.	30	18	31.8	81	53	43.0	4,540
Milepost J 13; center of track opposite.	30	18	39.0	81	52	34.6	6,040
Halsema, 340 feet east of, at second-class road crossing; center of track.	30	18	41.7	81	52	07.5	2,390
Road crossing, center of track, 550 feet west of milepost J 12.	30	18	44.5	81	51	40.8	2,351
McGisto Creek, on trestle over center of creek.	30	18	46.5	81	51	21.8	1,688
White House railroad station, 75 feet southwest of, 50 feet east of post office, at fence corner; iron post stamped "Prim. Trav. Sta. No. 14K"; U. S. C. & G. S. bench-mark tablet in concrete post is 33.4 feet distant, in azimuth $173^{\circ} 06'$.	30	18	50.3	81	50	40.7	3,616
Milepost J 10; center of track opposite.	30	18	57.8	81	49	35.0	5,817
Milepost J 9; center of track opposite.	30	19	04.1	81	48	35.2	6,280
Milepost J 8; center of track opposite.	30	19	10.5	81	47	35.2	5,300
Marietta, 140 feet east of station, at road crossing; center of main track.	30	19	14.0	81	47	02.1	2,921
Milepost J 7; center of track opposite.	30	19	16.9	81	46	35.3	2,370
Road crossing.	30	19	20.6	81	46	00.5	3,070
Milepost J 6; center of track opposite.	30	19	23.2	81	45	35.4	2,220

From White House railroad station south along highways to south border of quadrangle. (By C. B. Kendall.)

White House railroad station, 75 feet southwest of, 50 feet due east of Coast Survey bench mark; iron post stamped "Prim. Trav. Sta. No. 14, K 1917".	30	18	50.3	81	50	40.7	.....
White House station, 0.25 mile west of, center of track at public road crossing, is on line between Rs. 24 and 25 E.; section corner could not be located.	30	18	49.3	81	50	55.5	1,297
McGirts Creek, center of bridge over.	30	18	02.4	81	50	55.5	4,740

CAMBON QUADRANGLE—Continued.

From White House railroad station south along highways to south border of quadrangle—Con.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
McGirts Creek, 1.20 miles south of, at southwest corner of small vineyard; center of north and south road at T road east.	30 16 59.3	81 50 55.7	6,370
McGirts Creek bridge, 2 miles south of, 15 feet north and 20 feet west of three corners at T road north; stake set temporarily for iron post to be stamped "Prim. Trav. Sta. No. 15, K 1917"	30 16 20.4	81 50 56.3	3,933
Milepost J 14; center of road opposite	30 15 44.1	81 51 50.2	5,981
Milepost J 15; center of road opposite	30 15 13.5	81 52 37.3	5,161
Milepost J 15; second-class fork southeast	30 15 10.2	81 52 43.5	640

Magnetic declination for south part of quadrangle, 0.6° W.

FERNANDINA QUADRANGLE.

Along Seaboard Air Line Ry. near Fernandina. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Shell road crossing, 350 feet southwest of milepost 5	30 37 17.5	81 29 54.2	.....
Amelia River bridge, center of draw span	30 37 43.0	81 29 05.3	4,989
Second-class road crossing at section house	30 37 55.6	81 28 01.6	5,708
Fernandina, 2 miles south of, shell road crossing	30 38 19.5	81 27 33.4	3,451
Fernandina, street crossing at south edge of	30 39 19.7	81 27 43.1	6,140
Fernandina, longitude station of U. S. Coast and Geodetic Survey, on south side of Center Street between Fourth and Fifth streets, westside of courthouse, in courthouse grounds, about 15 meters south of Center Street curb and about 9 meters west of west side of courthouse. Marked by concrete pier 19 by 34 inches, 2 feet in ground, 3 feet above. Lettered "U. S. C. & G. S. 07" on pier. Center of pier 11.90 meters from northwest corner of courthouse, 4 feet above ground, 23.29 meters from southwest corner of courthouse, 4 feet above ground, 4.29 meters south and 17.50 meters west of courthouse spire	30 40 14.14	81 27 43.02	.....
Fernandina courthouse spire, U. S. Coast and Geodetic Survey triangulation station	30 40 14.28	81 27 42.35	.....
Fernandina, 7 feet west of center of Coast and Geodetic Survey longitude pier; iron post stamped "Prim. Trav. Sta. No. 21, K 1917"	30 40 14.13	81 27 43.10	.....

GREEN COVE SPRINGS QUADRANGLE.

Along highways near north border of quadrangle. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Green Cove Springs, Prim. Trav. Sta. No. 10 K (see following list)	29 59 28.2	81 41 06.7	.....
Four corners, 0.3 mile west of Green Cove Springs courthouse, 25 feet southwest to wire fence, 30 feet southeast to mail box ..	29 59 08.6	81 41 47.1	4,073
Governors Creek, center of bridge over	29 59 02.1	81 42 11.0	2,200
Road forks west and southwest, 60 feet southwest to sign painted "Green Cove Springs 2.5 miles, Starke 30 miles, Sharon 7.5 miles"	29 59 01.3	81 43 00.8	4,380
T. 6 S., R. 26 E., quarter corner between secs. 8, 9, 16, and 17, 200 feet west of forks to southwest, 640 feet east of plank bridge over small stream, on south edge of road; stake	29 59 01.0	81 43 07.7	611
T. 6 S., R. 26 E., corner of secs. 7, 8, 17, and 18, T road north at corner of wire fence, in center of east-west road; stake	29 59 00.4	81 43 53.0	3,990
T. 6 S., R. 26 E., on north edge of road; stake marked "N. W. and N. E. corners of NW. sec. 18 and SE. and SW. cor. of SW. sec. 7"	29 58 59.6	81 44 38.5	4,001

Magnetic declination for north border of quadrangle, 1° W.

GREEN COVE SPRINGS QUADRANGLE—Continued.

Along Atlantic Coast Line R. R. between Green Cove Springs and Jacksonville. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between station.
White triangulation station, U. S. Coast and Geodetic Survey, on the west bank of St. Johns River, on point of land about 1 mile southeast of Green Cove Springs. Marked underground by hole in brick, around which was placed cement. Over this was placed a 4-inch terra-cotta pipe set in cement and projecting 4 inches above the brick. Reference mark is a bottle 2 feet below surface of ground, and above it stands a concrete post 8 inches square, having two diagonal cross lines on its top. It is 15.31 meters from station in azimuth 355° 24' 45". There is an oak tree 10.70 meters from station in azimuth 266°. Two pine trees are at following distances and azimuths from station: 23 meters, 7°, and 30 meters, 96°. Reference mark is 18.42 meters from oak and 8 meters from first-mentioned pine.....	29 59 13.01	81 39 53.08	<i>Feet.</i>
Green Cove Springs, 0.9 mile southeast of, three corners at T road east through gate to Walkill farm.....	29 58 52.4	81 40 31.5	3,969
Green Cove Springs, Clay County courthouse, in line with west face and north of northwest corner of courthouse, just inside of iron fence, west of front gate; iron post stamped "Prim. Trav. Sta. No. 10, K 1917".....	29 59 28.2	81 41 06.7	4,751
Green Cove Springs, 400 feet north of courthouse, city water tower; center of ball at top; azimuth from Prim. Trav. Sta. No. 10 K to center of ball, 186° 27' 57".....	29 59 31.7	81 41 06.2	356
Milepost J 29, 560 feet north of, public-road crossing; center of track.....	29 59 59.4	81 41 18.3	2,993

Magnetic declination for north border of quadrangle, 0.6° W.

HILLIARD QUADRANGLE.

Along Atlantic Coast Line R. R. (By E. L. McNair.)

Station.	Latitude.	Longitude.	Distance between stations.
Ratliff flag station, 105 feet southwest of road crossing at, 3 feet east of fence post at gate, south side of private road; iron post stamped "Prim. Trav. Sta. No. 2, 1917 Mac;" reference azimuth to tip of metal ventilator on top of concrete railroad telephone booth, 615 feet distant, 167° 53' 50".....	30 30 07.2	81 48 23.3	<i>Feet.</i> 4,526
Public-road crossing, center of double track.....	30 31 21.6	81 49 01.6	8,228
Road crossing, between tracks.....	30 32 32.8	81 49 39.5	7,920
Callahan, intersection of Seaboard Air Line Ry. and south-bound track of Atlantic Coast Line R. R.....	30 33 38.2	81 50 11.6	7,182
Road crossing, between tracks.....	30 34 12.1	81 50 18.8	3,478
Milepost marked "Port Tampa 270," opposite, between tracks.....	30 35 23.3	81 51 01.2	8,099
Road crossing, between tracks.....	30 36 37.1	81 51 52.5	8,700
Dyal station, 125 feet south of road crossing at, S. 56° W., from center of double-track roadbed, inside fence, 2.5 feet from corner fence post; iron post stamped "Prim. Trav. Sta. No. 3, 1917, Mac;" azimuth to top of semaphore post 225 feet distant, 172° 44' 00".....	30 37 09.0	81 52 15.7	3,805
Milepost marked "Port Tampa 274," opposite, between tracks.....	30 38 22.4	81 53 05.9	8,612
Public-road crossing, between tracks.....	30 39 17.1	81 53 44.0	6,458
Public-road crossing, center of double-track roadbed.....	30 40 38.1	81 54 40.5	9,553
Hilliard station, 110 feet southwest of, 60 feet west of center of tracks, 15 feet south of roadway crossing tracks, 1 foot east of tall telephone pole; iron post stamped "Prim. Trav. Sta. No. 4, 1917, Mac;" azimuth to top of semaphore stand 6136 about 1,160 feet distant, 152° 25' 00".....	30 41 22.5	81 55 12.1	5,265
Road crossing, center of tracks.....	30 41 54.9	81 55 34.0	3,794
Milepost marked "Port Tampa 280," track opposite.....	30 42 50.9	81 56 13.1	6,610
Andrews flag station, 150 feet north of road crossing at, about 75 feet N. 46° E. from nearest rail at cattle guard, 16 feet S. 20° W. from corner fence post, concrete post with tablet in top stamped "U. S. C. & G. S. b. m. N ₄ ;" azimuth to tip of semaphore post 6105, 323° 27' 00".....	30 43 50.9	81 57 01.5	7,385
Milepost marked "Port Tampa 282," center of tracks opposite.....	30 44 13.8	81 57 26.2	3,157
Milepost marked "Port Tampa 283," center of tracks opposite.....	30 44 53.0	81 58 06.2	5,280

Magnetic declination for line, 1° 09' E.

HILLIARD QUADRANGLE—Continued.

Along Georgia Southern & Florida Ry. from St. George to Crawford. (By H. S. Senseney.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road crossing.....	30	31	17.9	81	59	38.0	Feet.....
Road crossing 800 feet west of milepost 23-239.....	30	31	17.1	81	53	00.9	8,315
Road crossing.....	30	31	12.0	81	57	27.8	2,945
Road crossing 250 feet east of milepost 21-241.....	30	30	57.0	81	55	50.2	8,665
Road crossing.....	30	30	44.1	81	54	26.5	7,445
Crawford, 240 feet north of crossing of Georgia Southern & Florida and Seaboard Air Line railroads, at corner of garden fence; iron post stamped "Prim. Trav. Sta. No. 3 S, 1917".....	30	30	31.2	81	52	49.2	8,609
Crawford, crossing of Georgia Southern & Florida and Seaboard Air Line railroads.....	30	30	28.9	81	52	48.2	245

Along Seaboard Air Line Ry. from Crawford to Callahan.

Road crossing.....	30	30	52.8	81	52	28.5	.....
Milepost 30, 110 feet north of, road crossing.....	30	31	45.6	81	51	44.8	6,570
Milepost 29.....	30	32	27.3	81	51	10.3	5,180
Road crossing.....	30	32	59.6	81	50	43.5	4,015
Callahan, crossing of Seaboard Air Line and Atlantic Coast Line railroads.....	30	33	38.2	81	50	11.6	4,791

Along highways near east border of quadrangle. (By H. S. Senseney.)

Center of bridge.....	30	43	07.7	81	46	38.3	.....
Lessie, at northeast corner of old store, road west.....	30	42	46.8	81	46	36.9	2,117
Road forks at signboard painted "Hilliard" west, blazed oak north.....	30	41	56.0	81	46	23.9	5,244
Evergreen, 2.50 miles west of, 100 feet east of road south to Italia, 6 feet west of blazed pine, south side of road; iron post stamped "Prim. Trav. Sta. No. 12, S. 1917;" azimuth to nail in root of blazed pine tree 300 feet east and 20 feet north of road, 252° 13' 50".....	30	41	56.7	81	46	03.3	1,803
Road forks, two blazed pines south and burned stump north.....	30	41	16.8	81	45	24.5	5,254
Road forks, blazed pine west.....	30	39	57.7	81	45	21.1	8,009

Along Seaboard Air Line Ry.

Logging-road crossing.....	30	36	07.1	81	45	26.9	.....
Road crossing.....	30	35	46.7	81	46	24.8	5,465
Road crossing, gate south.....	30	35	40.0	81	46	44.0	1,810
Road crossing.....	30	35	26.6	81	47	21.8	3,570
Road crossing, near switch to sawmill.....	30	35	14.0	81	47	57.6	3,379
Road crossing, house north, 700 feet northeast of milepost 25.....	30	35	03.8	81	48	26.4	2,719
Road crossing.....	30	34	51.6	81	49	01.2	3,276
Callahan, east of water tower, road crossing.....	30	33	55.6	81	49	57.2	7,476
Callahan, intersection of Seaboard Air Line and south-bound track of Atlantic Coast Line railroads.....	30	33	38.20	81	50	11.63	2,168

Along highways in northwest quarter of quadrangle.

Prim. Trav. Sta. No. 4, Mac, 1917 (previously listed).....	30	41	22.5	81	55	12.1	.....
T road south at signboard painted "Drewry Ferry 9 miles".....	30	41	08.8	81	55	48.0	3,420
T. 3 N., R. 24 E., 30 feet north and 30 feet east of corner of secs. 7, 8, 17, and 18; crossroads.....	30	41	01.0	81	56	20.5	2,948
T. 3 N., Rs. 23 and 24 E., corner of secs. 7, 12, 13, and 18, wooden post and blazed pine.....	30	40	58.8	81	57	21.3	5,317
T. 3 N., R. 23 E., corner of secs. 11, 12, 13, and 14; corner post.....	30	40	57.8	81	58	29.7	5,976
T. 3 N., R. 23 E., corner of secs. 10, 11, 14, and 15; corner post.....	30	40	56.9	81	59	30.7	5,326

Along highways in west border of quadrangle.

Road forks at signboard painted "Hilliard 8 miles".....	30	36	16.1	81	59	56.4	.....
North end of bridge.....	30	35	59.4	81	59	53.0	1,714
Crossroads, 2 mail boxes southeast.....	30	35	42.3	81	59	59.1	1,804
Crossroads at signboard painted "Hilliard 9 miles".....	30	35	14.0	81	59	58.1	2,859
North end of bridge.....	30	33	57.1	81	59	33.9	8,058
Road forks, blazed pine west.....	30	32	38.2	81	59	16.0	8,126
Crossroads.....	30	31	27.0	81	59	34.0	7,362

Magnetic declination for east and west borders of quadrangle and in northwest quarter of quadrangle, 1.3° E.

HILLIARD QUADRANGLE—Continued.

Along public roads, between Duval station and Ratliff station near south border of quadrangle.
(By J. B. Leavitt.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Milepost XV, 1,390 feet northwest of, on west side of deserted quarters of turpentine still, four corners; center of intersec- tion.....	30 30 35.4	81 45 25.2	-----
Thomas River bridge, 900 feet southeast of, fork to north, opposite Whiteschoolhouse.....	30 31 02.7	81 45 46.6	3,329
Thomas River; center of bridge over; center of creek is Duval- Nassau county line.....	30 31 06.5	81 45 56.0	908
Thomas River bridge, 0.5 mile west of, nail at trail crossing, in chopped tie of tram road.....	30 31 04.9	81 46 27.7	2,784
Ratliff station, 1 mile northeast of, 150 feet west of Mr. West's house; three corners at public road southwest to Ratliff station.....	30 30 35.8	81 47 35.9	6,647
Ratliff station, Prim. Trav. Sta. No. 2, McN 1917; tie with McNair's double chained line.....	30 30 07.2	81 48 23.3	5,058
Ratliff station, rear right of way fence, 40 feet east of center of station building, in 4 by 4 inch concrete block; U.S.C. & G.S. standard b. m. tablet stamped "E ₇ ".....	30 30 08.5	81 48 21.5	202

Magnetic declination for east part of south border of quadrangle, 0.7° W.

JACKSONVILLE QUADRANGLE.

Along Atlantic Coast Line R. R. (By E. L. McNair.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Jacksonville, tower of United States custom house and post office.....	30 19 39.14	81 39 37.74	-----
Jacksonville, 100 feet north of railroad signal tower, between the two west tracks; street crossing.....	30 20 05.2	81 41 09.9	8,493
Public-road crossing; center of double track.....	30 21 15.2	81 42 39.9	10,593
Railroad crossing, Atlantic Coast Line R. R. to Expert.....	30 21 35.0	81 43 04.5	2,939
Road crossing, second class; center of north-bound track.....	30 22 09.2	81 43 46.9	5,081
Road crossing.....	30 22 56.1	81 44 16.7	5,408
Road crossing; center of double-track roadbed.....	30 24 09.9	81 44 59.2	8,333

Magnetic declination for line, 1° 17' E.

Along Florida East Coast Ry. from Jacksonville to St. Augustine. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Jacksonville, on custom-house and post-office building; center of cupola (U.S.C. & G.S.).....	30 19 39.14	81 39 37.74	-----
Jacksonville, Florida East Coast Ry. bridge over St. Johns River; center of draw span.....	30 19 21.3	81 39 57.0	2,468
South Jacksonville, 1,310 feet southeast of southeast end of Florida East Coast Ry. bridge, 8 feet south of main track and about 100 feet northwest of junction of main track with spur to shipbuilding plant; U.S.C. & G.S. station mark, a concrete block 2 by 2 feet with gas pipe in center..	30 18 53.6	81 39 38.6	3,230
South Jacksonville, Hendrix Avenue crossing of Florida East Coast Ry., center of crossing.....	30 18 39.7	81 39 17.9	2,202
Phillips station, public-road crossing at.....	30 17 47.6	81 38 35.0	6,471
Milepost Jax. 3, 540 feet southeast of public-road crossing; center of track.....	30 17 17.4	81 38 13.6	3,580
Bowden station, about 1 mile northwest of, 100 feet northwest of milepost Jax. 4, public-road crossing; center of track.....	30 16 38.0	81 37 45.9	4,659
Bowden station, at south end of siding, 60 feet south and 25 feet west of public-road crossing, 20 feet south of road, in fence corner; iron post stamped "Prim. Trav. Sta. No. 1, K 1917"; azimuth of center of railroad track, 328° 29' 30".....	30 15 52.7	81 37 14.6	5,338
Milepost Jax. 6; center of track opposite.....	30 15 08.2	81 36 42.4	5,309

JACKSONVILLE QUADRANGLE—Continued.

Along Florida East Coast Ry. branch line from South Jacksonville via Pablo Beach to Mayport.
(By C. B. Kendall.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
South Jacksonville, at east edge of, Jacksonville-St. Augustine public road crossing, center of track.....	30	18	31.6	81	38	55.4	.....
South Jacksonville, 1 mile east of, public-road crossing; center of track.....	30	18	18.0	81	38	07.1	4,456
St. Nicholas station, public-road crossing; center of track.....	30	18	13.4	81	37	53.0	1,322
Oak Cemetery, public-road crossing; center of track.....	30	18	00.4	81	37	25.0	2,777
Spring Glen station, 130 feet east of, public-road crossing; center of track.....	30	17	40.8	81	36	35.8	4,744
Milepost 5, public-road crossing; center of track.....	30	17	26.0	81	35	45.8	4,630
Hogan station, 50 feet west of, public-road crossing; center of track.....	30	17	17.6	81	34	42.2	5,644
Hogan station, 0.5 mile east of, in top of north end of east abutment of trestle over Pottsburgh Creek; iron post stamped "Prim. Trav. Sta. No. 6, K 1917"; azimuth of center of track to east, 278° 00' 30".....	30	17	14.2	81	34	13.0	2,579
Hogan station, 1 mile east of, public-road crossing at siding to sand pit; center of main track.....	30	17	11.2	81	33	40.5	2,869
Milepost 8; center of track opposite.....	30	17	11.0	81	32	46.6	4,717
Milepost 9; center of track opposite.....	30	17	11.7	81	31	46.4	5,280
Milepost 10; center of track opposite.....	30	17	12.3	81	30	46.2	5,280
Center Park, in northeast corner of intersection of public road and Florida East Coast Ry., at southwest corner of front-yard fence to residence, 50 feet north and 20 feet east of center of main track at crossing; iron post stamped "Prim. Trav. Sta. No. 4, K 1917"; azimuth of center of track to east, 269° 15' 00".....	30	17	13.3	81	30	02.0	3,880

Along public roads from Duval station east to Crane triangulation station (U. S. C. & G. S.)
(By J. B. Leavitt.)

Duval station, 570 feet south of, public-road crossing; center of track.....	30	29	20.3	81	37	33.2	.....
Duval station, 1.3 miles southeast of, on north and south graded road, 400 feet south of crossroads; 4-corner road crossing.....	30	28	38.2	81	36	32.9	6,779
Duval station, 1.8 miles southeast of, forks, at pine tree on west side of road, painted elevation, 16.6 feet.....	30	29	00.9	81	36	13.5	2,837
Dim crossroads, 115 feet north to charred pine stump, painted elevation, 22.8 feet.....	30	29	10.8	81	35	43.2	2,826
Holly Grove schoolhouse, 1.2 miles southeast of, forks, elevation painted, 23.7 feet.....	30	29	36.4	81	32	06.2	.....
Walter Williams's cornfield, at corner of, 600 feet southeast of house, in root of pine tree; nail and washer, tree painted "t. b. m., 26.6 feet".....	30	29	13.7	81	31	42.0	3,119
Dim crossroads, 0.9 mile southeast of; painted elevation, 22.6 feet.....	30	29	01.9	81	30	47.6	4,903

Magnetic declination near northeast corner of quadrangle, 0.9° W.

Along Seaboard Air Line Ry. between Jacksonville and Duval. (By C. B. Kendall and J. B. Leavitt.)

Jacksonville Union Station, about 600 feet west of, between Atlantic Coast Line R. R. main line and track leading to express sheds, 100 feet east of Myrtle Avenue crossing, under railroad yard, U. S. C. & G. S. Prim. Trav. Sta. "Union"; 12 by 12 inch concrete block, with tablet set in top, over which is erected a tripod.....	30	19	44.0	81	40	36.0	.....
Jacksonville, Enterprise Street crossing; center of street-car track.....	30	20	09.9	81	40	43.1	2,685
Jacksonville, on city crematory; brick chimney.....	30	20	35.9	81	40	16.3	3,526
Jacksonville, Davis Street crossing; center of track.....	30	21	04.4	81	40	02.4	3,124
Jacksonville, Main Street crossing; center of track between street car tracks.....	30	21	03.9	81	39	14.4	4,205
Jacksonville, east side of Seaboard Air Line main track, at United Grocery Co.'s building; center of water tank.....	30	21	12.2	81	38	44.5	2,756
Jacksonville, at southwest corner of cemetery, brick-road crossing, center of track at.....	30	21	50.8	81	38	45.3	3,902
Atlantic Coast Line and Seaboard Air Line railroads, crossing of, at Ocoola Fertilizer Co.'s warehouse; center of crossing.....	30	22	39.4	81	38	46.1	4,911

JACKSONVILLE QUADRANGLE—Continued.

Along Seaboard Air Line Ry. between Jacksonville and Duval—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Panama Street, 800 feet north of, public-road crossing; center of track.....	30 23 18.5	81 38 53.7	Feet. 4,006
Trout Creek, bridge over; center of draw span.....	30 23 35.5	81 38 56.1	1,736
Trout Creek, 0.8 mile north of, opposite yellow house, on road crossing center of track.....	30 24 20.0	81 39 01.9	4,521
Milepost 9, 800 feet north of, shell-road crossing; center of track.....	30 25 10.0	81 38 56.8	5,069
Signboard painted "East Port Jet," 50 feet south of, on public-road crossing; center of track.....	30 25 54.3	81 38 42.1	4,660
East Port Junction, 150 feet south of switch, on shell-road crossing; center of track.....	30 26 41.5	81 38 26.3	4 961
Broward station, 250 feet northeast of, 50 feet east of center of track, 30 feet west of center of shell road; iron post stamped "Prim. Trav. Sta. No. 17, K 1917"; azimuth of center of track to north, 196° 09' 30".....	30 27 41.7	81 38 05.6	6,348
Milepost 13, opposite center of track.....	30 28 38.2	81 37 47.3	5,929
Duval station, 570 feet south of, public-road crossing; center of track at.....	30 29 20.3	81 37 33.2	4,431

Along Atlantic Coast Line R. R. between Green Cove Springs and Jacksonville. (By J. B. Leavitt.)

Ortega station, 1.1 miles east of, crossing of second-class road north; center of track.....	30 15 18.0	81 42 00.5	.....
Ortega station, public road crossing, 100 feet north of switch, center of track.....	30 16 01.1	81 42 35.6	5,338
McGirts Creek bridge; center of draw span.....	30 16 24.6	81 43 02.8	3,360
McGirts Creek bridge, 800 feet northwest of, road crossing at Plauer, center of track.....	30 16 30.3	81 43 09.3	810
Milepost J 5, 50 feet south of, public-road crossing; center of track.....	30 17 17.8	81 43 15.1	4,826
Milepost J 4, 70 feet south of, public road crossing; center of track.....	30 18 09.5	81 43 13.0	5,225
Wessner station, at Edgewood Avenue crossing on Atlantic Coast Line R. R., 2 feet west of telephone pole, 30 feet north of center of road and 50 feet east of center of track at crossing; iron post stamped "Prim. Trav. Sta. No. 12, K 1917".....	30 18 27.4	81 42 49.0	2,845
Milepost J 3, 590 feet northeast of, brick-road crossing; center of track.....	30 18 46.1	81 42 20.2	3,079
Jacksonville, Stockton Street crossing; center of main track.....	30 19 18.7	81 41 30.4	5,470
Jacksonville, in center in railroad yards just west of Union Station; U. S. C. & G. S. Primary Traverse Station "Union," concrete block with gas pipe.....	30 19 44.0	81 40 36.0	5,407
Jacksonville, U. S. custom-house cupola; U. S. C. & G. S. triangulation station.....	30 19 39.14	81 39 37.74	5,131

Along public roads between Duval and Ratliff stations. (By J. B. Leavitt.)

Duval station, 570 feet south of, road crossing; center of track.....	30 29 20.3	81 37 33.2	.....
Duval station, 1.4 miles southwest of, 0.4 mile northeast of Mr. Higginbotamer's residence, four corners; center of intersection.....	30 28 37.3	81 38 45.5	7,676
Cedar Creek crossing, center of road at ford.....	30 28 05.5	81 39 24.0	4,658
Cedar Creek crossing, 0.7 mile west of, at drain crossing; center of road, 10 feet south to oak tree blazed with X in face.....	30 28 00.2	81 40 05.7	3,688
Big Cedar Creek crossing; center of road.....	30 27 30.6	81 40 50.7	4,945
Big Cedar Creek crossing, 1.4 miles southwest of, in front of Mr. Richeson's residence; center of road.....	30 26 29.4	81 41 35.9	7,342
Four corners, crossing of the "Lem Turner" road with "Dunns Avenue" road; center of intersection.....	30 26 18.5	81 41 53.5	1,894
Bridge over Cedar Creek (dry), 0.6 mile south of; center of main road at fork to east.....	30 27 22.8	81 42 22.6	6,977
Bridge over Cedar Creek (dry); center of.....	30 27 53.6	81 42 24.4	3,112
Milepost X 1, 3,520 feet north of; center of small bridge.....	30 28 32.3	81 42 46.8	4,372
Center of culvert, in swamp (Horton Creek).....	30 29 06.8	81 43 19.0	4,481
Braddock schoolhouse, 100 feet south of, near northeast corner of pasture; center of crossroads.....	30 29 33.7	81 44 18.9	5,904

Magnetic declination on west half of north border of quadrangle, 0.8° W.

JACKSONVILLE QUADRANGLE—Continued.

Along Seaboard Air Line Ry. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Milepost J 5, 160 feet west of; crossroad.....	30 19 29.8	81 44 37.5	-----
Road crossing, road north and south.....	30 19 36.3	81 43 52.1	4,030
Milepost J 3, opposite; center of track.....	30 19 47.0	81 42 36.7	6,700
McDuff Avenue crossing.....	30 19 49.2	81 42 21.0	1,390
Brick chimney of dismantled factory.....	30 19 47.0	81 41 51.4	2,605
Jacksonville, Estelle Street crossing; center of main track.....	30 19 56.3	81 41 30.8	2,034
Jacksonville, U. S. C. & G. S. traverse station "Union".....	30 19 44.02	81 40 36.0	4,962

LAKE BUTLER QUADRANGLE.

Along highways in northeast corner of quadrangle. (By H. S. Senseney.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Bend in road, 60 feet south to two dead pines on east side of road, 24 feet west to burnt stump.....	30 14 13.5	82 15 29.4	-----
Fence line, east and west.....	30 13 43.7	82 15 27.0	3,023
Road forks, at signboard.....	30 13 15.5	82 15 26.7	2,847
Crossroads, rail fence west.....	30 12 55.2	82 15 16.6	2,230
Gate through wire fence.....	30 12 12.3	82 15 05.3	4,434

Magnetic declination for east border of quadrangle, 1° 34' E.

LAWTEY QUADRANGLE.

Along highways and Atlantic Coast Line R. R. in west part of quadrangle. (By H. S. Senseney.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Crossroads, house about 500 feet northwest.....	30 11 21.7	82 14 09.2	-----
Crossroads, signboards reading, "Sanderson 6 miles; Stark 16 miles; Olustee 15 miles".....	30 10 44.6	82 13 33.1	4,908
Crossroads.....	30 09 51.3	82 13 07.9	5,818
Crossroads.....	30 09 06.4	82 12 44.0	5,003
Sapp station, 70 feet southeast of road crossing at, 6 feet north of northwest corner of post office; iron post stamped "Prim. Trav. Sta. No. 7, 8 1917".....	30 08 50.6	82 11 07.6	8,605
Road crossing.....	30 08 22.7	82 11 20.6	3,038
Road crossing.....	30 07 41.0	82 12 02.3	5,579
Road crossing.....	30 07 03.9	82 12 39.4	4,960
Ellerbe, road crossing at.....	30 06 02.4	82 12 59.5	6,462
Bradford Farms station, in front of; center of track.....	30 04 22.9	82 13 14.5	10,108
Bradford, at city-limit sign; road crossing.....	30 04 13.2	82 13 28.4	1,561
Rainford station, road crossing at.....	30 03 49.4	82 14 12.6	4,574
Road forks.....	30 03 32.4	82 14 12.2	1,716
Road forks, at road west to New River, 70 feet east of corner of rail fence, 4 feet west of blazed pine tree.....	30 02 39.8	82 14 16.7	5,330
New River bridge; north end of.....	30 02 14.7	82 13 22.7	5,380
Road east, signboards reading "Rainford 2.5 miles; Starke 8.5 miles; Lawtey 9 miles".....	30 02 00.6	82 13 05.9	2,045
New River, 3.7 miles northeast of, 20 feet west of three corners, on Starke and Lake Butler public road, 1,400 feet east of dwelling house, 1,000 feet south of log house; iron post stamped "Prim. Trav. Sta. No. 72, 149, 1911".....	30 00 15.5	82 13 41.4	11,060

LAWTEY QUADRANGLE—Continued.

West along highways from Highland to Sapp.

Station.	Latitude.	Longitude.	Distance between stations.
Highland, 610 meters south of railroad station, 250 meters south of water tank, on the highest land near the railroad (about 210 feet above sea). Station is on east side of track 9.74 meters from a point 4.82 feet above east rail. An 8-inch terra-cotta pipe 2.5 feet long and filled with cement mortar, in which is embedded a $\frac{3}{4}$ -inch iron rod marks the center. This pipe projects 6 inches above ground. (U. S. C. & G. S.)	30 06 28.65	82 02 52.92	<i>Feet.</i>
Crossroads, small blazed pines northwest and northeast.....	30 06 52.9	82 03 25.4	3,760
Road forks, 65 feet west of lone dead tree.....	30 06 41.0	82 04 31.3	5,915
T. 4 S., R. 22 E., corner of secs. 27, 28, 33, and 34; wooden post..	30 06 49.7	82 05 55.5	7,441
Road forks.....	30 06 35.3	82 06 13.5	2,155
Road forks, 200 feet east of slough.....	30 06 45.7	82 08 42.0	13,087
T. 4 S., Rs. 21 and 22 E., corner of secs. 25, 36, 30, and 31; iron pipe with cap.....	30 06 48.3	82 08 57.8	1,412
Road forks, on north side of road; blazed stump.....	30 07 18.1	82 10 05.1	6,631
Sapp, Prim. Trav. Sta. No. 7 S (previously described).....	30 08 50.6	82 41 07.6	10,840

Magnetic declination for north border of quadrangle, 1° 31' E.; near middle of quadrangle, 2° 10' E.

MACLENNY QUADRANGLE.

West along Seaboard Air Line Ry. from Baldwin to Sanderson. (By H. S. Senseney.)

Station.	Latitude.	Longitude.	Distance between stations.
Milepost J 21, C 188, 425 feet west of; road crossing.....	30 17 47.0	82 00 38.5	<i>Feet.</i>
Matfox, crossing of Atlantic Coast Line and Seaboard Air Line railroad.....	30 17 35.4	82 02 25.9	9,490
Baker-Nassau county line (indefinite).....	30 17 31.7	82 02 59.7	2,985
Road crossing.....	30 17 25.0	82 04 02.5	5,551
Milepost J 26, C183.....	30 17 11.7	82 05 31.1	7,887
Macclenny, west of depot; road crossing.....	30 16 53.2	82 07 20.1	9,731
Road crossing (wire gate south of track).....	30 16 46.3	82 08 00.9	3,650
Glen St. Mary, 150 feet west of depot; road crossing.....	30 16 29.7	82 09 38.7	8,740
Road south to nurseries, center of track opposite.....	30 16 24.2	82 10 11.2	2,901
Road crossing at switch.....	30 16 18.8	82 10 42.6	2,810
Road crossing 25 feet east of switch.....	30 15 53.7	82 13 10.5	13,980
Road crossing.....	30 15 45.3	82 13 59.5	4,381

Along highways from Macclenny to Stokesville, Ga.

Macclenny, road crossing west of depot.....	30 16 53.2	82 07 20.1	.....
Macclenny, 60 feet west and 25 feet north of road crossing west of depot, in concrete post; bronze tablet stamped "Prim. Trav. Sta. No. 4, S. 1917".....	30 16 53.4	82 07 21.0	79
Road forks, blazed tree east.....	30 17 20.7	82 07 09.6	2,936
Road forks, two blazed pines west.....	30 18 34.1	82 06 44.9	7,730
NOTE.—There is another road fork 135 feet north.			
Road forks at corner of rail fence.....	30 19 04.8	82 06 30.9	3,327
Road forks 30 feet north of signboard painted "17 M. to Taylor".....	30 19 27.2	82 06 09.0	2,967
Road forks 35 feet south of small wooden culvert.....	30 19 55.4	82 05 54.8	3,107
Road forks, blazed burnt stump west.....	30 20 07.8	82 05 50.3	1,322
Road forks 25 feet north of small wooden culvert, blazed pine and stump east.....	30 20 40.4	82 05 19.9	4,231
Crossroads, house west.....	30 21 04.4	82 04 55.8	3,320
Florida-Georgia State line, St. Marys River; center of bridge over.....	30 21 32.2	82 04 55.9	2,801

MACCLENNY QUADRANGLE—Continued.

Along highways from Stokesville, Ga., eastward.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
East bank of St. Marys River, at ford.....	30	23	01.8	82	02	14.3	.....
Crossroads, at southeast corner; blazed stump marked "U. 8.".....	30	23	18.4	82	01	03.2	6,452
Road forks.....	30	23	25.7	82	00	25.2	3,403

From bridge over St. Marys River, 2 miles south of Stokesville, Ga., west along highways.

Florida-Georgia State line, St. Marys River; center of bridge over.....	30	21	32.2	82	04	55.9	.....
Road forks.....	30	21	23.0	82	05	26.3	2,820
Small bridge.....	30	21	05.6	82	06	18.1	4,868
Bridge, center of.....	30	20	48.0	82	07	01.6	4,207
South fork of St. Marys River, south end of bridge over.....	30	21	09.9	82	07	47.2	4,563
Road forks at sign post painted "McClenny 6 miles".....	30	21	40.1	82	08	05.2	3,430
Crossroads, blazed stump southeast.....	30	21	08.5	82	08	42.1	4,542
Crossroads, blazed pine southeast and southwest.....	30	20	31.8	82	09	25.0	5,284
Milepost Jax 34 M.....	30	20	55.4	82	10	36.7	6,725
Bridge, south end of.....	30	21	06.9	82	11	08.2	2,992
Milepost Jax 35 M.....	30	21	07.6	82	11	32.4	2,122
Milepost Jax 36 M.....	30	21	47.0	82	12	05.4	4,917
T-road west.....	30	22	09.4	82	12	18.7	2,546
Bridge, center of.....	30	21	41.9	82	12	52.4	4,058
Bridge, south end of.....	30	21	50.4	82	13	18.1	2,411
Post at fence corner, marked "32-4".....	30	22	23.4	82	13	49.2	4,311
Baxter, about 10 miles south of, at forks of road to Taylor, 2 feet south of signpost painted "Taylor 5.5 Mi."; iron post stamped "Prim. Trav. Sta. No. 8, S 1917".....	30	23	02.8	82	14	31.0	5,406

North along highways near west border of quadrangle from primary traverse station No. 8 to Baxter.

Small bridge, center of.....	30	24	01.1	82	14	28.3	5,893
Small bridge.....	30	24	46.4	82	14	20.9	4,622
Crossroads, signboards painted "Taylor 3.5 M., Kenny 4 M., Baxter 8 M., McClenny 13 M.".....	30	25	22.6	82	14	28.4	3,718
Bridge, north end of.....	30	25	53.1	82	14	30.9	3,093
Road forks.....	30	27	24.5	82	14	25.7	9,244
House of Pink Rollosen, center of road in front of.....	30	28	07.6	82	13	51.8	5,270
Road forks at corner of rail fence.....	30	28	45.6	82	13	13.3	5,110
T-road east.....	30	29	50.7	82	13	13.6	6,584

North along highways near west border of quadrangle.

T-road east.....	30	20	26.9	82	14	57.0	.....
Crossroads, signboard to Catanese gristmill.....	30	21	26.2	82	14	32.8	6,355
Crossroads.....	30	22	27.9	82	14	26.4	6,259
Primary Traverse Station No. 8.....	30	23	02.8	82	14	31.0	3,555

Magnetic declination for south border of quadrangle, 1° 31' E.; for west border of quadrangle, 1° 41' E.; for east border of quadrangle, 1° 20' E.; for center of quadrangle, 1° 23' E.

MAYPORT QUADRANGLE.

Along the Florida East Coast Ry. from South Jacksonville to Mayport. (By C. B. Kendall.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Milepost 11, center of track opposite.....	30	17	13.4	81	29	46.0	.....
Milepost 12, center of track opposite.....	30	17	14.1	81	28	45.7	5,280
Milepost 13, center of track opposite.....	30	17	14.8	81	27	46.8	5,170
Milepost 14, center of track opposite.....	30	17	15.4	81	26	46.4	5,280
San Pablo station, public-road crossing; center of track.....	30	17	15.8	81	26	10.3	3,170

MAYPORT QUADRANGLE—Continued.

Along the Florida East Coast Ry. from South Jacksonville to Mayport—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Bridge over Pablo Creek on East Coastal Canal, in top of south end of draw-span abutment; tablet stamped "Prim. Trav. Sta. No. 5, K 1917, Elev. 9;" azimuth of center of track for 3,000 feet east, 269° 25' 48"	° ' "	° ' "	Feet.
Pablo Beach, 0.7 mile west of, public-road crossing; center of track	30 17 16.2	81 25 18.2	4,565
Pablo Beach, station 500 feet north of, public-road crossing; center of track	30 17 16.8	81 24 21.7	4,955
Manatee station, opposite center of, center of track	30 17 27.3	81 23 29.1	4,731
Cashens station, opposite center of station platform; center of track	30 18 01.0	81 23 34.9	3,435
Neptune station, brick-road crossing at; center of track	30 19 03.0	81 23 45.9	6,338
Atlantic Beach station, 550 feet south of, at Seventh Street crossing; center of main track	30 19 28.0	81 23 49.3	2,550
Atlantic Beach, Atlantic Beach Hotel; flag staff at center of	30 19 53.5	81 23 52.9	2,600
Atlantic Beach, Atlantic Beach Hotel, brick chimney, U. S. C. & G. S. triangulation station "Continental chimney"	30 20 00.3	81 23 48.4	795
Milepost 21, center of track opposite	30 20 01.71	81 23 51.26	-----
Milepost 22, center of track opposite	30 20 35.0	81 23 58.6	3,422
Manhattan Beach station, at north end of platform, opposite road east; center of track	30 21 27.2	81 23 59.8	5,280
Milepost 23, 100 feet north of, public-road crossing; center of track	30 21 59.8	81 24 00.1	3,300
East Mayport station, 700 feet south of, on railroad filtering water tank; center of cupola	30 22 20.3	81 24 02.0	2,070
East Mayport station, 100 feet south of, public-road crossing; center of main track	30 22 48.6	81 24 33.3	3,967
Mayport, St. Johns River Lighthouse; U. S. C. E. triangulation station	30 22 54.0	81 24 40.0	804
Mayport station, 250 feet southwest of, at end of main track; safety block	30 23 36.01	81 25 34.61	6,398
Mayport Hotel flagstaff, U. S. C. E. triangulation station	30 23 18.8	81 25 59.2	2,762
Mayport, U. S. C. E. warehouse, at west end of, platform built on roof near chimney, U. S. C. E. triangulation station, warehouse	30 23 30.94	81 25 53.31	1,325
	30 23 35.20	81 25 53.26	-----

Along public roads from Duval station east to Crane triangulation station, U. S. Coast and Geodetic Survey. (By J. B. Leavitt.)

Bridge over small creek, 1.4 miles northwest of, hub on east side of road, 1 foot from wagon track, 15 feet southwest to small oak bush blazed on four sides, 20 feet due north to pine tree, blazed, with X cut in face	30 28 25.3	81 29 44.4	-----
Small creek, center of bridge over	30 27 36.9	81 28 39.4	7,497
Center of road at edge of brush, the end of causeway over swamp, 15 feet east to dead-pine snag	30 27 36.3	81 28 35.4	360
Crane triangulation station, 3.3 miles south of, 0.4 mile east of causeway; center of road at bend to left	30 27 40.4	81 28 13.4	1,960
Crane triangulation station (U. S. C. & G. S.)	30 30 31.37	81 28 15.13	17,275

Magnetic declination near northwest corner of quadrangle, 1.1° W.

MIDDLEBURG QUADRANGLE.

Along Atlantic Coast Line R. R. between Greencove Springs and Jacksonville. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
Russel station, about 0.7 mile northwest of, milepost J 23; center of track opposite	° ' "	° ' "	Feet.
Milepost J 22, center of track opposite	30 03 46.9	81 45 18.1	-----
Bridge over Black Creek; center of draw span pier	30 04 31.2	81 45 43.2	4,984
Doctor's Inlet station, 1,040 feet northwest of, Jacksonville Green Cove Springs hard-road crossing; center of track	30 04 50.2	81 45 42.3	1,919
Doctor's Inlet station, 0.9 mile north of, 1 mile south of Peoria station, public-road crossing; center of track	30 06 00.5	81 46 10.6	7,520
Peoria station, on west side of track, 5 feet south of telegraph pole, 30 feet west of southwest corner of station platform; iron post stamped "Prim. Trav. Sta. No. 11, K 1917"	30 06 35.8	81 46 10.4	3,572
Peoria station, 1 mile northeast of, public-road crossing; center of track	30 07 24.8	81 45 51.1	5,230
	30 08 07.8	81 45 16.3	5,318

MIDDLEBURG QUADRANGLE—Continued.

From north border of quadrangle along highways south and east to Peoria. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Southern's Camp, center of public road at tram crossing.....	30 14 44.0	81 53 31.9	.....
Forks of road, 175 feet south of ford of small stream, 400 feet northeast of new small log cabin; second-class roads south-east and southwest.....	30 14 00.5	81 53 37.0	4,413
Taylor Creek, 0.6 mile north of, fork in road, roads north and northwest, 12 feet northeast to pinesnag.....	30 12 57.8	81 52 44.3	7,847
Taylor Creek, center of, at ford.....	30 12 26.7	81 52 51.5	3,198
Mr. Moseley's residence, center of chimney at west end of.....	30 11 56.2	81 52 49.1	3,089
Forks of road, 30 feet south of, center of lane in line between corners, is north end of the Bowling and Jennings' cut-out road to Middleburg.....	30 11 15.2	81 52 57.6	4,213
T. 4 S., R. 24 E., corner of secs. 2, 3, 10, and 11, opposite fence corner on east edge of roadway; center of road.....	30 10 20.8	81 52 57.3	5,490
T. 4 S., R. 24 E., corner of secs. 10, 11, 14, 15, 20 feet north of small bridge, opposite white 4 by 4 inch post on east edge of road; center of road.....	30 09 27.8	81 52 56.8	5,360
Small plank bridge, 400 feet south of, at intersection of roads; center of north and south road.....	30 09 18.5	81 52 56.7	940
Plank bridge over small stream, 230 feet north of, 20 feet northwest to signboard painted "Middleburg, Maxville Forks".....	30 08 45.7	81 52 56.4	3,310
T. 4 S., R. 24 E., corner of secs. 14, 15, 22, and 23, opposite 4 by 4 inch post (probably corner post) on east edge of road.....	30 08 35.4	81 52 56.2	1,040
T. 4 S., R. 24 E., corner of secs. 22, 23, 26, and 27, opposite white 4 by 4 inch stake (probably corner post) on west edge of road.....	30 07 42.3	81 52 55.5	5,371
Crossroads, public.....	30 07 18.8	81 52 55.2	2,370
T. 4 S., R. 24 E., corner of secs. 26, 27, 34, and 35, at T road north, 2 feet south of white pine 4 by 4 foot post marking section corner, on south edge of road; iron post stamped "Prim. Trav. Sta. No. 16, K 1917".....	30 06 49.0	81 52 54.9	3,012
T. 4 S., R. 24 E., corner of secs. 25, 26, 35, and 36, T road south to Middleburg, on north edge of road, 500 feet east of Hatcherville schoolhouse.....	30 06 49.8	81 51 53.8	5,366
Black Pond Baptist Church, public T road south at, 15 feet north to pump, corner of secs. 25, 30, 31, and 36, T. 4 S., Rs. 24 and 25 E.....	30 06 50.6	81 50 53.9	5,256
T. 4 S., R. 25 E., corner of secs. 29, 30, 31 and 32, center of road opposite stake at south edge of road.....	30 06 51.2	81 49 52.7	5,381
T. 4 S., R. 25 E., corner of secs. 28, 29, 32, and 33, opposite post on south edge of road, 490 feet east of crossroads; center of road.....	30 06 51.9	81 48 52.3	5,311
T. 4 S., R. 25 E., corner of secs. 27, 28, 33, and 34, at ditch to north; center of road.....	30 06 52.7	81 47 51.5	5,340
Public crossroads, road southwest-northeast at telephone line; center of intersection.....	30 06 52.9	81 47 33.9	1,540
T. 4 S., R. 25 E., corner of secs. 26, 27, 34, and 35, on south edge of road, 10 feet north of well, 35 feet west of corner of rail fence; stake.....	30 06 53.5	81 46 51.7	3,711
T. 4 S., R. 25 E., corner of secs. 26, 27, 34, and 35, 1,320 feet east of, at T road west to Middleburg, center of Jacksonville-Green Cove Springs asphalt road.....	30 06 53.8	81 46 36.8	1,305
Crossroads, center of asphalt road at.....	30 07 43.2	81 46 19.1	5,229
Peoria, Prim. Trav. Sta. No. 11, K 1917 (described in another list, p. 35).....	30 07 24.8	81 45 51.1	3,083

From Hatcherville schoolhouse south to Middleburg (spur line). (By C. B. Kendall.)

Tps. 4 and 5 S., R. 24 E., corner of secs. 1, 2, 35, and 36, at public T road west; center of junction.....	30 05 56.6	81 51 53.2	.....
T. 5 S., R. 24 E., corner of secs. 1, 2, 11, and 12, public T road west, 10 feet west to center of plank bridge.....	30 05 04.4	82 51 52.5	5,281
Black Creek, bridge over; center of draw span.....	30 04 30.8	81 51 49.5	3,394
Middleburg, public T road north, 28 feet northeast to southwest corner of G. A. Chalker's store, 20 feet south to front door of G. R. Trisbee's store, 38 feet northwest to southeast corner of F. W. Buddington's store, 25 feet east to T road south to boat landing.....	30 04 07.8	81 51 39.6	2,491

MONIAC QUADRANGLE.

(By H. S. Senseney.)

Baxter, 300 feet east of depot, 30 feet south of railroad track; iron post stamped "Prim. Trav. Sta. No. 9 S, 1917".....	30 30 46.7	82 14 02.7	.....
St. George, Ga., 1.8 miles east of, in Florida, 35 feet west and 30 feet north of road crossing; iron post stamped "Prim. Trav. Sta. No. 6 S, 1917".....	30 31 17.4	82 00 27.2	.....

MONIAC QUADRANGLE—Continued.

Along highways near east border of quadrangle. (By H. S. Senseney.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
T. 3 N., R. 23 E., corner of secs. 9, 10, 15, and 16; corner post.....	30	40	55.3	82	00	32.2	-----
T road east.....	30	40	54.3	82	01	56.8	7,381
Crossroads, blazed pine west.....	30	40	17.9	82	02	07.2	3,786
Hilliard, 6 miles west by 3 miles south of, 90 feet south by 15 feet east of crossroads, at mail box of J. J. Johnson; iron post stamped "Prim. Trav. Sta. No. 14, S. 1917;" azimuth to blazed pine tree 290 feet south and 15 feet west of post, 3490° 09' 20.".....	30	39	24.5	82	01	49.8	5,598
Crossroads at A. A. Geiger's mail box.....	30	38	22.9	82	01	13.0	7,005
Crossroads at mail box 34.....	30	37	50.9	82	00	49.4	3,826
Crossroads at W. H. Wingate's mail box.....	30	36	53.6	82	00	07.7	6,835

Magnetic declination for east border of quadrangle, 1.3° E.

ORANGE PARK QUADRANGLE.

Along Florida East Coast Ry. between Jacksonville and St. Augustine. (By C. B. Kendall.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Ry. Milepost Jax. 7, 200 feet southeast of, public-road crossing; center of track.....	30	14	21.9	81	36	09.8	-----
Milepost Jax. 8, 230 feet northwest of, at public-road crossing, center of track.....	30	13	40.9	81	35	40.8	4,860
Milepost Jax. 9, center of track, opposite.....	30	12	54.4	81	35	08.0	5,510
Sunbeam station, public-road crossing at.....	30	12	34.4	81	34	53.9	2,370
Sunbeam 1.1 miles southeast of, public-road crossing, center of track.....	30	11	30.0	81	34	13.1	6,641
Milepost Jax. 12, public-road crossing, center of track.....	30	10	48.3	81	33	22.0	6,809
Greenland station, public road crossing at, center of main track.....	30	10	15.7	81	32	49.1	4,381
Milepost Jax. 14, public-road crossing at, center of track.....	30	09	29.5	81	32	02.4	6,210
Bayard, about 600 feet southeast of station, in northwest corner of junction of Jacksonville-St. Augustine public road with road north, 50 feet north and 30 feet east of Florida East Coast Ry. main track at road crossing; iron post stamped "Prim. Trav. Sta. No. 2, K 1917;" azimuth of center of main track to south, 318° 46' 14".....	30	08	35.4	81	31	07.1	7,308
Bayard, 0.7 mile southeast of, 450 feet northwest of, milepost Jax. 16, public-road crossing, center of track at.....	30	08	14.2	81	30	46.4	2,808
Milepost Jax. 17, 1,250 feet northwest of, public-road crossing; center of track at.....	30	07	40.8	81	30	12.8	4,480

Along highways between Durbin and Orangedale near south border of quadrangle. (By C. B. Kendall.)

Bridge over Sampson Branch, 370 feet east of, three corners at public T road north, 15 feet north to center of triangle.....	30	03	53.2	81	30	01.1	-----
Sampson schoolhouse, fence post at southeast corner of grounds, public roads west and southwest.....	30	03	47.8	81	30	15.3	1,360
Sampson schoolhouse, 1 mile west of, 300 feet southwest of George Rodder's residence, which is old Durbin post office: in northwest corner of crossroads, iron post stamped "Prim. Trav. Sta. No. 7, K 1917. Elev. 31".....	30	03	42.6	81	31	17.1	5,459
Old Durbin post office, 1 mile southwest of, four corners, 12 feet northwest to stump, 25 feet west to tree with tag marked "29.0".....	30	03	30.60	81	32	15.5	5,272
Bridge over Trout Creek, 0.3 mile east of, at fork to northeast, on south edge of road, oak tree painted "t. b. m. 24.2;" cop per nail and washer in root.....	30	02	52.9	81	33	19.2	6,776
Trout Creek, center of bridge over, painted "10.5 W. 4.8".....	30	02	47.7	81	33	39.7	1,875
Trout Creek, bridge, 0.5 mile southwest of, Julia turpentine still 0.7 mile northeast of, 15 feet south and 25 feet east of intersection of Mill Creek-Troutdale and Durbin-Orangedale public roads: iron post stamped "Prim. Trav. Sta. No. 8, K 1917. Elev. 31".....	30	02	39.0	81	34	15.8	3,292
Julia turpentine still, at southeast corner of front yard to residence, between residence and store; fence post, painted "28.8".....	30	02	27.2	81	34	52.7	3,462
Julia still, 0.7 mile southwest of, center of road, 30 feet south of pine tree, painted "29.7".....	30	02	02.1	81	35	22.4	3,638
Orangedale post office, 1,000 feet northeast of, public roads east and northeast, 20 feet south to fence post, painted "27.8".....	30	01	17.8	81	35	56.6	5,381
Orangedale post office, 0.9 mile southwest of, 0.4 mile northeast of Oakdale landing on St. Johns River, 25 feet south and 15 feet east of intersection of crossroads: iron post stamped "Prim. Trav. Sta. No. 9, K 1917. Elev. 27".....	30	00	45.9	81	36	44.8	5,331

ORANGE PARK QUADRANGLE—Continued.

Along second-class roads between Orangedale and Remington triangulation station near south border of quadrangle. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Orangedale, 1 mile west of, trail crossing small stream, 300 feet west of dwelling.	30 01 00.5	81 36 55.7	.....
Orangedale, about 1.75 miles northwest of; center of small stream at trail crossing.	30 01 02.4	81 37 22.9	2,400
Orangedale, about 2 miles northwest of, old chimney place just west of stream crossing; old chimney stands 4 feet high.	30 01 07.2	81 37 31.0	861
Hallowes turpentine still, about 0.75 mile southeast of; center of pole bridge over small stream.	30 01 17.0	81 37 58.2	2,582
Hallowes turpentine still, 1,500 feet east of, on north edge of road, at forks, pine tree marked with "P. T." cut in face.	30 01 34.0	81 38 29.7	3,267
Remington triangulation station, about 2 miles southeast of, vacant house just west of stream; chimney at north end.	30 02 03.5	81 38 32.0	2,987
Remington triangulation station, 1 mile northeast of, small dwelling at west edge of clearing; point of roof at south end.	30 02 29.6	81 39 11.8	4,387
Remington triangulation station, U. S. C. & G. S., on east side of St. Johns River, below bluff in front of Remington Park House, marked underground by half of claret bottle set in cement 2 feet below surface of ground. Over this is 4-inch terra-cotta pipe 2 feet long, set in concrete block 15 inches square and projecting 3 inches above it. Reference mark: Pickle bottle set 2 feet below surface of ground, having above it concrete post 8 inches square, with diagonal cross lines cut on its top. On bluff, 13.20 meters from station, in azimuth 251° 20' 49", in line with station and an old cypress tree which stands at water's edge; only tree of kind growing near shore in locality. This tree is 3.55 meters from station, in azimuth 73°. Oak tree on bluff was marked with triangle; it is 10.10 meters from station, in azimuth 263°	30 02 08.88	81 40 06.85	5,271

Magnetic declination along east half of south border of quadrangle, 0.9° W.

Along Atlantic Coast Line R. R. between Green Cove Springs and Jacksonville. (By C. B. Kendall to Russel, thence by J. B. Leavitt to Yukon.)

Green Cove Springs, 1 mile northwest of, Dowling-Shanda log-railroad crossing; center of crossing.	30 00 09.9	81 41 27.7	.....
Magnolia Springs station, opposite mail crane; center of track.	30 00 28.3	81 41 47.1	2,519
Magnolia Springs station, 0.8 mile northwest of, public-road crossing; center of track.	30 00 59.7	81 42 20.5	4,319
Williams crossing or Self station, public-road crossing at station platform; center of track.	30 01 44.3	81 43 07.9	6,142
Milepost J 25, center of track opposite.	30 02 27.7	81 43 54.0	5,969
Milepost J 25, 0.3 mile northwest of, second-class road crossing; center of track.	30 02 38.8	81 44 05.8	1,520
Russel station, 50 feet south of, public-road crossing; center of track.	30 03 22.4	81 44 52.0	5,990
Milepost J 17, 0.4 mile northeast of, second-class road crossing; center of track.	30 08 34.2	81 44 36.7	.....
Gate, entrance to Wadesboro Spring, 50 feet west of, public-road crossing; center of track.	30 09 18.6	81 43 42.0	6,567
Orange Park station, 300 feet southwest of, public-road crossing; center of track.	30 09 55.5	81 42 38.8	6,691
Orange Park station, 500 feet north of, public-road crossing; center of main track.	30 10 03.4	81 42 38.7	796
Milepost J 13, center of track opposite.	30 10 50.4	81 42 40.6	4,751
Orange Park station, 1.5 miles north of, public-road crossing; center of track.	30 11 22.8	81 42 41.9	3,270
Milepost J 11, 70 feet south of, public-road crossing; center of track.	30 12 32.5	81 42 22.9	7,234
Old Yukon post office, public-road crossing at; center of track.	30 13 09.8	81 42 11.5	3,900
Yukon station, 520 feet north of, public-road crossing; center of track.	30 13 57.1	81 41 57.1	4,940
Yukon station, 1.1 miles north of, 100 feet west of, public-road crossing; center of track.	30 14 50.7	81 41 54.1	5,424

PALM VALLEY QUADRANGLE.

Along the Florida East Coast Ry. from Jacksonville to St. Augustine. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
Milepost Jax. 18, 2.5 feet west of, in 6 by 6 inch concrete block; U. S. C. & G. S. bench mark tablet stamped "M ₈ "; azimuth of center of railroad, 318° 46' 04".....	° ' " 30 08 52.0	° ' " 81 29 24.1	Feet. -----
Duval-St. Johns county line signpost; center of track opposite.	30 06 15.4	81 28 46.6	4,946
Durbin station, 400 feet northwest of, public-road crossing; center of track.....	30 05 13.7	81 27 44.4	8,289
Durbin station, 1.7 miles southeast of, road crossing; center of track.....	30 04 18.3	81 26 48.6	7,440
Siding 22 station, public-road crossing; center of main track.....	30 03 56.1	81 26 27.1	2,929
Milepost Jax. 23; center of track opposite.....	30 03 34.2	81 26 07.4	2,810
Woodland station, at south end of siding, 40 feet southwest of second-class road crossing, near north end of gate, in 6 by 6 inch concrete block; U. S. C. & G. S. bench mark tablet stamped "O ₈ "; azimuth of center of track to south, 321° 55' 20".....	30 02 33.9	81 25 13.7	7,710
Milepost Jax. 26; center of track opposite.....	30 01 30.6	81 24 16.1	8,150
Sampson siding station, at north end of siding, 50 feet southeast of public-road crossing, 5 feet west of telegraph pole; iron post stamped "Prim. Trav. Sta. No. 3, K 1917"; azimuth of center of railroad to south, 321° 56' 06".....	30 00 45.3	81 23 34.4	5,809

Along highways between Durbin and Orangeville.

Durbin station, 400 feet northwest of, public-road crossing; center of track.....	30 05 13.7	81 27 44.4	-----
Durbin station, 1 mile southwest of, at fork to south; pine tree painted "U. S. t. b. m. 38.0".....	30 04 58.0	81 -23 45.9	5,626
Durbin station, about 2.2 miles southwest of, 4 corners in partial clearing, 600 feet south of dwelling, 10 feet northwest to pine painted "25.9".....	30 04 21.3	81 29 31.6	5,467

Magnetic declination in southwest part of quadrangle, 0.9° W.

ST. AUGUSTINE QUADRANGLE.

Along Florida East Coast Ry. from Jacksonville to St. Augustine. (By C. B. Kendall.)

Station.	Latitude.	Longitude.	Distance between stations.
Sampson siding station, 1.1 miles southeast of, public-road crossing; center of track.....	° ' " 29 59 48.9	° ' " 81 22 44.6	Feet. -----
Trestle 30 A, public-road crossing at; center of track.....	29 59 15.6	81 22 14.5	4,280
Magnolia station, 1 mile northwest of, public-road crossing; center of track.....	29 58 31.3	81 21 34.7	5,680
Magnolia station, at north end of siding, public-road crossing; center of main track.....	29 57 47.5	81 20 59.4	5,402
Magnolia station, at a point 200 feet southeast of public-road crossing, 30 feet east of main track, in 6 by 6 inch concrete block; U. S. C. & G. S. bench mark tablet stamped "Q ₈ "; azimuth of center of railroad to south, 331° 55' 00".....	29 57 46.0	81 20 57.9	202
Magnolia station, 1.1 miles southeast of, public-road crossing; center of track.....	29 56 55.3	81 20 27.4	5,781
Milepost Jax. 34, 230 feet southeast of, public-road crossing; center of track.....	29 55 43.9	81 19 43.6	8,180
Baker station, public-road crossing at; center of main track.....	29 54 53.9	81 19 34.2	4,616
St. Augustine, at north end of railroad yard, trestle 37 A; center of.....	29 53 50.2	81 19 18.2	7,085
St. Augustine, old fort grounds; center of arched entrance gate.....	29 53 51.5	81 18 49.8	2,498
St. Augustine, Presbyterian Church dome, U. S. C. & G. S. triangulation station (see App. 6, 1911, p. 438). Ties were made with Water Tower and Catholic Cathedral spire station with the same closures.....	29 53 36.95	81 19 01.43	1,798

ST. MARYS QUADRANGLE.

Along public roads from Duval Station east to Crane triangulation station, Coast and Geodetic Survey. (By J. B. Leavitt.)

Station.	Latitude.	Longitude.	Distance between stations.
Duval station, 1.8 miles north and 3.3 miles east of, at fence corner, 15 feet southwest of intersection of crossroads, about 600 feet north of Mr. Swerington's residence, about 10 feet west of north-south line between secs. 14 and 15; iron post stamped "Prim. Trav. Sta. No. 22, K 1917. Elev. 25".....	30 30 12.2	81 34 41.9	<i>Fect.</i>
Sample Swamp Creek, center of bridge over, bridge painted "Elev. 10.6".....	30 30 12.7	81 34 25.6	1,425
Holly Grove schoolhouse, at northeast corner of school yard; fence painted "Elev. 31.5", center of road.....	30 30 07.5	81 33 11.4	6,507

Magnetic declination near southeast corner of quadrangle, 0.8° W.

Along Seaboard Air Line Ry. (By J. B. Leavitt.)

Primary Traverse Station 19 K, at Yulee.....	30 37 52.0	81 36 23.7	.....
Milepost 25, center of track opposite.....	30 38 29.1	81 36 58.0	4,794
Trestle over creek, center of.....	30 38 54.3	81 37 21.7	3,280
Milepost 26, center of track opposite.....	30 39 11.0	81 37 37.4	2,180
Second-class road crossing.....	30 39 30.5	81 37 55.8	2,540
Trestle over swamp, center of.....	30 39 45.4	81 38 08.2	1,860
Becker's sawmill, railroad crossing at.....	30 40 16.3	81 38 31.6	3,731
Milepost 28, center of track opposite.....	30 40 36.4	81 38 46.9	2,429
Milepost 29.....	30 41 20.0	81 39 20.0	5,280
Second-class road crossing.....	30 41 38.2	81 39 33.8	2,184
Milepost 30, center of track opposite.....	30 42 03.8	81 39 53.1	3,085
Gross, 40 feet west of railroad station, 28 feet north of public road; iron post stamped "Prim. Trav. Sta. No. 23 K. Elev. 25 1917".....	30 42 52.1	81 40 30.2	5,856
Milepost 32, center of track opposite.....	30 43 31.3	81 40 59.4	4,709
East and west road crossing, 1,570 feet south of milepost 33.....	30 44 02.9	81 41 20.3	3,677
St. Marys River, center of draw span over.....	30 44 28.4	81 41 19.5	2,581

Along Seaboard Air Line Ry. (By C. B. Kendall.)

Italia, 60 feet west and 25 feet north of road crossing, 7 feet northwest of northwest corner of railroad station; iron post stamped "Prim. Trav. Sta. No. 13, S 1917".....	30 37 04.4	81 43 02.8	.....
Italia, 0.40 mile east of; center of trestle 18-3 over Boggy Creek.....	30 37 01.4	81 42 37.1	2,260
Milepost 18, 570 feet west of, at second-class road crossing; center of track.....	30 36 59.2	81 42 16.5	1,811
Milepost 17, 600 feet west of, at second-class road crossing; center of track.....	30 36 53.0	81 41 16.8	5,250
Milepost 16, 130 feet east of, at trestle 15-9 over creek; center of track.....	30 36 51.7	81 40 08.8	5,939
Nero station, 20 feet east of switch at spur; center of track.....	30 37 03.3	81 39 27.4	3,800
Milepost 14, 730 feet west of, at negro settlement; public-road crossing.....	30 37 21.4	81 38 23.0	5,915
Milepost 13, center of track opposite.....	30 37 39.7	81 37 17.7	6,005
Yulee, 0.50 mile west of, at public road crossing; center of main track.....	30 37 47.9	81 36 48.5	2,679
Yulee station, 300 feet southeast of, 100 feet north of Hugs store, due west of public-road crossing, 2 feet northeast of telegraph pole; iron post stamped "Prim. Trav. Sta. No. 19, K 1917".....	30 37 52.0	81 36 23.7	2,201

Along highways and Seaboard Air Line Ry., near west border of quadrangle. (By H. S. Senseney.)

Gate in wire fence.....	30 39 10.4	81 44 43.3	.....
Gate in wire fence.....	30 38 48.0	81 44 29.1	2,583
Crossroads, blazed pine east.....	30 38 08.3	81 44 05.4	4,504
Italia, 10 feet west of northwest corner of depot; iron post stamped "Prim. Trav. Sta. No. 13, S 1917"; azimuth to top of switchstand, 95° 21' 00".....	30 37 04.40	81 43 02.75	8,462
Road crossing.....	30 37 06.1	81 43 22.1	1,699
Boggy Creek, east end of bridge over.....	30 36 34.4	81 44 36.3	7,232

Magnetic declination for west border of quadrangle, 1.3° E.

ST. MARYS QUADRANGLE—Continued.

From Duval north along Seaboard Air Line Ry. to Yulee, thence east to east border of quadrangle. (By C. B. Kendall.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Milepost 15, center of track opposite.....	30	30	20.2	81	37	24.2	-----
Pecan Park, second-class road crossing.....	30	31	03.3	81	37	23.2	4,360
Tisonia station, 185 feet south of, 30 feet west of center of track; iron post stamped "Prim. Trav. Sta. No. 18, K 1917".....	30	31	59.1	81	37	22.2	5,641
Milepost 17, center of track opposite.....	30	32	04.8	81	37	21.8	570
Milepost 18, center of track opposite.....	30	32	56.8	81	37	18.5	5,259
Stony Creek, trestle over.....	30	33	17.7	81	37	16.6	2,120
Milepost 19, center of track opposite.....	30	33	48.9	81	37	13.5	3,165
Milepost 20, center of track opposite.....	30	34	34.8	81	36	45.2	5,252
Nassau River, south end of bridge over.....	30	35	11.1	81	36	21.2	4,230
Nassau River, steel span over, 1,970 feet north of south end, in cement block; U. S. C. & G. S. bronze tablet Z ₂	30	35	29.0	81	36	12.3	1,962
Shell-road crossing, 190 feet south of milepost 22.....	30	36	10.1	81	36	08.0	4,169
Milepost 23, center of track opposite.....	30	37	04.0	81	36	01.8	5,470
Yulee, Prim. Trav. Sta. No. 19 K (previously described).....	30	37	52.0	81	36	23.7	5,222
Yulee, 135 feet northeast of Flood Bros.' store, 120 feet east of south end of station, in concrete block; U. S. C. & G. S. bronze tablet stamped "A ₃ ".....	30	37	53.4	81	36	23.9	135
Yulee, railroad crossing of Seaboard Air Line Ry., main line and branch line.....	30	37	54.4	81	36	25.4	163
Road crossing, 160 feet east of milepost 11.....	30	38	12.4	81	35	20.8	5,921
Trestle No. 10 over creek.....	30	38	25.9	81	34	32.9	4,410
Lofton, 0.7 mile west of, second-class road crossing.....	30	38	19.8	81	33	44.9	4,241
Lofton, 75 feet east of station; road crossing.....	30	38	03.7	81	33	06.6	3,720
Lofton, 1,900 feet east of; shell-road crossing.....	30	37	55.7	81	32	47.7	1,840
Trestle 7-2, road crossing at.....	30	37	31.3	81	31	49.8	5,629
Trestle over creek.....	30	37	20.9	81	31	25.1	2,400
O'Neil, 420 feet east of station, 2 feet south of milepost 6, 20 feet north of center of track; iron post stamped "Prim. Trav. Sta. No. 20, K 1917".....	30	37	04.6	81	30	45.7	3,811
O'Neil station, 15 feet southwest of southwest corner of, in concrete block; bronze tablet of U. S. C. & G. S.	30	37	06.3	81	30	50.3	428

SANDERSON QUADRANGLE.

Along highways near east border of quadrangle. (By H. S. Senseney.)

Milepost "C 173 J 36".....	30	15	20.7	82	15	20.0	-----
Sanderson, 150 feet east of depot, 35 feet east of road crossing, 25 feet north of track, in concrete post; bronze tablet stamped "Prim. Trav. Sta. No. 1, S 1917, B 4" (U. S. C. & G. S. b. m.).	30	15	02.2	82	16	17.5	5,378
Crossroads, three mail boxes, southwest.....	30	16	06.0	82	16	10.4	6,476
Crossroads, signboard southeast.....	30	17	03.6	82	16	08.9	5,817
Cedar Creek, south end of bridge over.....	30	17	33.4	82	16	10.7	3,019
Road forks, rail fence corners southeast.....	30	18	30.8	82	15	24.7	7,065
Old schoolhouse; center of road in front of.....	30	19	15.9	82	15	12.1	4,688
Milepost "VI".....	30	19	50.0	82	15	10.0	3,455
Bridge, center of.....	30	20	18.3	82	15	00.5	2,980

