CHRONOMETERS.

The equipment of United States vessels for sea service one of the essential prerequisites of their is the marine chronometers, instruments of peculiar construction and perfection in workmanship, by which time is measured with extreme accuracy, as in determining geographical longitudes and ascertaining the difference of time.

One of the most essential and practical features of the United States naval observatory is a special attention to the custody of these delicate instruments, which are thoroughly tested before they are used, and requires much care and attention, from three to six months in a year.

There is a separate chronometer room at the observatory a temperature room in which the testing is conducted, and where the influence of the hygrometric conditions of the atmosphere upon the running of chronometers is tested by the room is heated by circulation of hot water, the fuel being gas controlled by electricity, and is cooled by an ice refrigerator that of the outside atmosphere. The temperature is closely observed every day during trial and recorded for the previous twenty-four hours by a chronometric thermometer and by self registering maximum and minimum thermometers.

The chronometers are compared daily between 11 and 11:40 o'clock a. m. with the mean time standard clock and the errors and rates are worked up every evening. In these mean rates calculations are made to the nearest quarter of a second. All chronometers received at the observatory are placed on trial prior to their purchase by the government and are tested at the temperatures between 45 and 90 degrees F. Fifty-five, 70 and degrees are the temperatures between extremes, all chronometers are tested at these three temperatures. The instruments are placed opposite to their numbers, and those failing to pass are returned to their makers. The trials are commenced near the middle of the summer or the middle of winter in each year, so that the temperature of both extremes is used as well as artificial ones.

Chronometers are selected with view to the temperature in which they are to be used, those for warm climates to be selected for cold climates, those for cold climates the reverse.

When called for, they are taken direct from the observatory through the navy department to their destination, while still running, with the greatest care. They are delivered to the navigation officer of the navy on board of the vessel, as the case may be, and the supervision of the observatory ceases until their return.—New York Times.

THE THOMAS SAFE AND LOCK CO.

The ancients slept on the door or on a divan covered with skins. During the middle ages beds were made of ...ches, heather or straw. It is believed that feather beds were known to the Romans, since a mention by one of the poets. Nero's luxurious that they slept on feathers is supposed to refer to this kind of bed. Heliogabalus had an air cushion, and also an air mattress, filled with 222 ... Feather beds were employed by the better classes in England during the days of Henry VIII., though they were considered luxuries and were expensive. The bedsteads of the Egyptians, Romans and Greeks closely resembled our ...ches. The Russian peasants place their beds on top of the family oven for warmth. In Iceland and some parts of Germany it is still a custom for the bride to furnish the feather beds, on which the sleeper lies while the ... is used for covering.

Getting Rested.

A divorcee that always gets the ...ship. Mistress Fickle, Heir, as a ...William—Well, which is the divorce the man or the lady? His ...Why, what questions he asks! ...

ESTABLISHED 1860.

H. P. DUTTON & CO.

—DEALERS IN—

Sea Island Cotton.

Sea Island Cotton Seed, Bagging and Twine. Walrus Leather in Strips or Sides.

Manufacturers of the James Doig Improved English Sea Island Cotton Gin, and Supplies for Same.

GAINESVILLE, FLORIDA, U. S. A.

G. S. MERCHANT & CO.

Retailers and Jobbers in

Staple and Fancy Groceries,

Grain, Garden Seed and Fertilizers.

SOUTH SIDE SQUARE. GAINESVILLE, FLORIDA

Highest Market Price paid for Chickens, Eggs and other Produce.

A Complete stock of Hay, Corn, Oats, Flour, Bran, Meal, Cotton Seed Meal and Rye. We handle only the VERY BEST goods at the LOWEST PRICES, and guarantee satisfaction always.

Job Printing

Send Your Order to

THE SUN JOB OFFICE

—Work Executed—

Neatly, Promptly and Artistically

Coast Rail

Corrected to ...

No. 99 Daily	No. 29 Daily		STATIONS		
			Jacksonville	Ar	
			St. Jacksonville	Lv	
			St. Augustine		
			Hastings		
			Palatka	Lv	
			Palatka	Ar	
			San Mateo	Lv	
			Barberville		
			Pierson		
			Cassadaga		
			Lake Helen		
			Orange City		
			New Smyrna		
			Oak Hill		
			Titusville		
			Sanford	Ar	
			Sanford	Lv	
			Titusville	Lv	
			Cocoa		
			Rockledge		
			Eau Gallie		
			Melbourne		
			Sebastian		
			St. Lucie		
			Fort Pierce		
			Tibbals		
			Eden		
			Jensen		
			Stuart		
			Hobe Sound		
			West Jupiter		
			West Palm Beach		
			Boynton		
			Delray		
			Hollywood		
			Dania		
			Hallandale		
			Lemon City		
			Miami		
			HOMESTEAD EXTENSION		
			Miami	Lv	
			Homestead	Ar	

Sleeping Cars on Trains 97 and 98. Buffet Parlor Cars on Trains 29 and 30.

No. 27 Daily		STATIONS		
		Jacksonville	Lv	
		Jacksonville	Ar	
		Atlantic Beach		
		Mayport		

PENINSULAR AND OCCIDENTAL STEAMSHIP CONNECTIONS AT MIAMI

Close connection made at Miami with Steamships of the P. & O. S. S. Company for

HAVANA AND KEY WEST.

Through Tickets and Baggage Checked to Havana and Key West.

Apply to Agents of the Company for Tickets, Sleeping Car Reservations, Time Cards or Other Information.

"THE TICKET AGENT."

Southern Railway

Two Trains Daily to Washington and New York.

Schedule Effective November 18, 1906.

No. 31	No. 30	Two Trains East	No. 29	No. 39
9 05a	7 55p	Lv Jacksonville Ar	9 00a	8 20p
11 45a	10 45p	Lv Jesup Ar	6 20a	5 40p
1 20p	12 15a	Lv Savannah Ar	4 45a	4 00p
6 55p	6 00a	Ar Columbia Lv	1 15a	12 10p
10 20p	9 55a	Ar Charlotte Lv	9 50p	8 35a
1 13a	12 51p	Ar Greensb'r Lv	7 03p	5 53a
2 21a	2 10p	Ar Danville Lv	5 31p	4 24a
6 28a	6 42p	Ar Richmond Lv	12 30p	11 30p
4 34a	4 20p	Ar Lynchbg Lv	3 38p	2 38p
6 18a	6 10p	Ar Charlottesville Lv	1 48p	12 45a
9 50a	9 50p	Ar Washin'n Lv	10 15p	9 50p
11 30a	11 35p	Ar Baltimore Lv	8 18p	8 20p
1 45p	2 35a	Ar W. Phila Lv	5 32p	5 50a
4 15p	6 30a	Ar New York Lv	12 10a	3 25p

Nos. 33 and 34—"New York and Florida Express." Daily Pullman Drawing Room Sleeping Car Port Tampa and Jacksonville to New York.

Nos. 29 and 30—"Washington and Florida Limited." Daily Pullman Drawing Room Sleeping Car Jacksonville to New York.

No. 30	Through Land of The Sky	No. 29
7 55p	Lv Jacksonville, Fla Ar	9 00a
10 45a	Ar Savannah, Ga Lv	6 20a
6 00a	Ar Columbia, S. C. Lv	1 15a
8 35p	Ar Asheville, N. C. Lv	4 35p
3 37p	Ar Hot Springs, N. C. Lv	12 15p
6 00p	Ar Knoxville, Tenn. Lv	9 35a
8 50a	Ar Louisville, Ky Lv	3 55p
4 50p	Ar St. Louis, Mo. Lv	10 00a

Nos. 39 and 40—Daily Pullman Drawing Room and Office Sleeping Car between Jacksonville and Cincinnati.

Excellent Dining Car Service on All Trains.

No. 12	No. 14	Northbound	No. 11	No. 15
7 45p	7 45p	Lv Jax'ville, Fla. So Ry Ar	8 50a	8 50a
10 45p	10 30p	Lv Jesup, Ga. So Ry Ar	6 10a	6 10a
4 00a	3 00p	Ar Macon, Ga. So Ry Lv	1 20p	1 20p
6 35a	5 50a	Ar Atlanta, Ga. So Ry Lv	11 45a	11 45p
8 38a	7 30p	Ar Dalton, Ga. So Ry Lv	9 35p	9 35p
11 38a	9 55a	Ar Dalton, Ga. So Ry Lv	6 45a	1 00p
1 00p	9 45p	Ar Chattanooga, C & G Lv	6 30a	8 00p
	9 30p	Ar Lexington, Q & C Lv	10 00a	
	7 40p	Ar Cincinnati, O. Q & C Lv	8 30a	
	8 40p	Lv Cincinnati, Big F'r Ar	7 10a	
	7 10p	Ar Chicago, Big Four Lv	8 30p	
	4 35p	Lv Cincinnati, Pa L's Ar	6 45a	
	8 45p	Lv Cincinnati, CH&D Ar	7 40a	
	7 22a	Ar Chicago, Monon R Lv	9 05p	
	9 40p	Lv Cincinnati, CH&D Ar	8 20a	
	5 20a	Ar Toledo, O. CH&D Lv	5 40p	
	7 25a	Ar Detroit, Mich. PM&D Lv	10 00p	
	8 30p	Lv Cincinnati, Big F'r Ar	8 50a	
	6 15a	Ar Cleveland, Big F'r Lv	8 30p	
	5 30p	Lv Lexington, C. H. & D. Ar	10 45a	
	8 10a	Lv Louisville, So Ry Lv	7 40p	
	9 40a	Ar Anniston, So Ry Lv	7 [illegible]	
	11 45a	Ar Birmingham, So R Lv	5 15p	
	8 55p	Ar Memphis, Tenn. Lv	8 00a	
	9 40a	Ar Kansas City, Mo. Lv	6 30p	
	8 30p	Lv Memphis, Tenn. Ar	6 00a	

Nos. 13 and 14—"Tennessee Special." Through Day Coaches and Pullman Sleeping Cars, Jacksonville to Memphis.

Nos. 13 and 14—Pullman Drawing Room Sleeping Car between Jacksonville, Birmingham, Memphis and Kansas City.

Nos. 17 and 18—"The Atlanta Special." Pullman Drawing Room Sleeping Cars Jacksonville to Atlanta and Chattanooga. Passengers can remain in sleepers Atlanta overnight.

For information and sleeper reservations call on any agent Seaboard or write

O. MacDONELL, Asst. General Passenger Agent, JACKSONVILLE, FLORIDA.

J. C. LESK, District Passenger Agent, 108 West Bay St., Jacksonville, Fla.

S. H. HARDWICK, P. T. M. W. H. TAYLOE, G. P. A. BROOKS MORGAN, A. G. P. A.

SEABOARD Air Line Railway

FOR....

Savannah, Columbia, Camden, Southern Pines, Raleigh, Richmond, Washington, Baltimore, Philadelphia, New York.

Two Elegant Trains Daily.

Seaboard Express.

Seaboard Mail.

MODERN PULLMAN EQUIPMENT

Only Line Operating

Daily Through Pullman Sleepers from Jacksonville to New Orleans

For full information and sleeper reservations call on any agent Seaboard or write

O. MacDONELL, Asst. General Passenger Agent, JACKSONVILLE, FLORIDA.

O. BOYLSTON, Jr., Passenger Agent.

Gainesville & Gulf Railway Company

THE FRUIT & VEGETABLE ROUTE OF FLORIDA.

Time Table in effect September 24, 1906.

No. 2 Daily	No. 4 Daily	STATIONS.	No. 1 Daily	No. 3 Daily
			Ar. P. M.	Ar. P. M.
	8 00	Fairfield		2 50
	8 10	Irvine		2 20
	8 20	Dunnellon		2 05
	8 30	Southside		2 00
	8 35	Hickman		1 55
	8 40	Lake Brooklyn		1 50
	4 00	Micanopy		1 40
	4 10	Tacoma		1 35
	4 20	Kirkwood		1 25
	4 30	Hyatt		1 20
	4 35	Wacahoota		1 10
	4 40	Rocky Point		12 55
	4 50	Gainesville		12 50
	6 00	Lv. 6 30	9 20	10 25 Ar.
	6 30	Bellamy	8 55	9 55
	6 40	Cyril	8 45	9 50
	7 05	Graham	8 22	9 22
	7 15	Ar. 7 25	Sampson City	8 20 8 10
	9 00	10 00	Palatka, G. S. F. Ry	6 00 6 00
	8 45	8 50	Lake City, G. S. F. Ry	1 45 1 40
	11 05	11 00 a	Tallahassee, S. L. & W.	4 10 4 20
			Valdosta, G. F. & A.	11 00 12 00 a
			Quitman, G. F. & A.	7 00 8 00
			Thomasville, G. F. & A.	9 00 10 00
			Lv. A. M.	Lv. P. M.

Connection between Gainesville and Fairfield on Sundays.

H. B. BARKER, General Superintendent. J. P. HILL, Agent.

Advertise in THE SUN