

Chronology – Sinking of S.S. *TITANIC*

Prepared By: David G. Brown

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Last Updated June 9, 2009

New York Time = Greenwich (GMT) – 5:00

Assumed April 14th Hours (Noon Long 44 30 W)

Titanic = Greenwich – 2:58

Titanic = New York + 2:02

Assumed April 15th Hours (Noon Long 56 15 W)

Titanic = Greenwich – 3:45

Titanic = New York + 1:15

Bridge Time (Bells) = April 14th Hours + 24 minutes; or, April 15th Hours - 23 minutes

(Bridge time primarily served the seamen to allow keeping track of their watches by the ringing of ship’s bells every half hour.)

CAUTION: Times Presented In This Chronology Are Approximations Made To The Best Of The Author’s Ability. Times Presented In This Chronology Have An Assumed Accuracy Range Of Plus-Or-Minus 10 Percent, or 6 Minutes either side of the time shown (total range 12 minutes).

NOTES

Colors of Type:

BLACK – Indicates actions and events in the operation of the ship or the professional crew.

BLUE – Actions of stewards, cooks, and other non-sailors in the crew.

MAGENTA – Actions and events involving passengers.

GREEN – Wireless Traffic.

RUST – Specific events involving the physical ship such as damage, etc.

GREY SHADING – indicates that hours not in current use for timekeeping on *Titanic*. They are for reference only.

YELLOW SHADING – highlights important physical events in the flooding and/or breakup of the hull.

BLUE SHADING – Setback of clocks; watch changes for officers; etc.

ROSE SHADING – highlights the launching of lifeboats.

BUFF SHADING—events on *Californian*

Disclaimer:

This chronology reflects the general order of events surrounding the sinking of R.M.S. *Titanic* as based upon the sworn testimonies of survivors. All efforts have been made to insure the relative accuracy of events, however the reader should bear in mind that identifying specific clock times for individual events is often impossible. All times shown are no more than good faith estimates unless otherwise specified. Lifeboat launching order developed from information by Bill Wormstedt, Tad Fitch & George Behe.

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Caution: All Times Are Approximations.

Linear Hours	Titanic Ship's Time	Bridge Time (Bells)	New York Hours	GMT London	Description of Events
	1420	1420	0920	1420	April 11, 1912 <i>Titanic</i> takes departure off Daunt Rock lightship 51 43 N, 8 17 W.
	1504	1504	1004	1504	51 30.5 N , 08 32 W about 5 miles off Old Head of Kinsale. Course altered for Fastnet Light
	2000	2000 1918	1500	2000	Start of 8 to 12 watch. Crew Bell clock set back 42 minutes (half of total 1:24 setback).
	2442	2400 2318	1942	0042	Change of Watch -- 12 to 4 Watch takes over
	0000	0000	2024	0124	April 12, 1912 Start of Civil date/time for April 12
	1200	1200	0824	1324	First day's run posted 484 miles
	1821	1821	1445	1945	Wireless message from MGY to MSG: "Titanic 'To Capt LaTouraine, Thanks for your message and information. My position 7 p.m. GMT 49 45 N; Long 23 38 W. Greenwich. had fine weather. Compliments – Smith'"
	2000	2000 1935	1624	2124	Start of 8 to 12 watch Crew Bell clock set back 25 minutes (half of total 49 minute setback).
	2425	2400 2336	2049	0149	Change of Watch – 12 to 4 Watch takes over
	0000	0000	2113	0213	April 13, 1912 Start of civil date/time for April 13.
	1200	1200	0913	1413	Second days run posted at 519 miles. Revs increased to 75 on recip, 167 on turbine.
					Bunker fire put out sometime during the evening.
	2000	2000 1937	1713	2213	Start of 8 to 12 watch. Crew Bell clock set back 23 minutes (half of total 46 minute setback).
	2423	2400 2337	2136	0136	Change of Watch – 12 to 4 watch takes over

Linear Hours	Titanic Ship's Time	Bridge Time (Bells)	New York Hours	GMT London	Description of Events
	2446 0000	0000	2159	0159	April 14, 1912 Start of civil date/time for April 14.
	0200	0200	2359	0359	Chief Officer Wilde replaces First Officer Murdoch on deck. Lookouts Jewell and Symons replace Evans and Hogg in crow's nest.
		8 Bells			
	0400	0400	0159	0659	Change of Watch 4-to-8 Watch takes deck. Third Officer Pitman and Fifth Officer Lowe take over from Fourth officer Boxhall and Sixth Officer Moody. Lookouts Fleet and Lee replace Jewell and Symons in crow's nest.
	0415	0415	0214	0714	Most likely time for morning celestial sights.
		8 Bells			
	0800	0800	0559	1059	Change of Watch 8-to-12 Watch takes deck Boxhall and Moody replace Pitman and Lowe Hitchens, Olliver & Rowe take over as quartermasters. Jewell & Symons replace Evans and Hogg in crow's nest.
	1000	1000	0759	1259	Murdoch replaces Lightoller on deck. Fleet & Lee replace Jewell and Symons in crow's nest.
	1200	1200	0959	1459	Third days run posted at 546 miles.
		8 Bells			
	1200	1200	0959	1459	Change of Watch 12-to-4 watch takes deck. Pitman & Lowe replace Boxhall & Moody Bright, Humphreys, and Perkins take over as quartermasters. Evans & Hogg take over in crow's nest.
	1230	1230	1029	1529	Lightoller & Murdoch switch for lunch.
	0200	0200	1159	1559	Chief Officer Wilde takes deck from Murdoch. Jewell and Symons replace Evans and Hogg in crow's nest.

Events Starting Civil Date Sunday, April 14, 1912

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
-15:04	0900	0900	0814	0658	1158	Ice message from Caronia – “Captain Titanic, Westbound steamers report bergs, growlers and field ice in 42° N from 49° to 51° W, 12 th April. Compliments, Barr.” Titanic to Captain, Caronia: “Thanks for message. Have had variable weather throughout. Smith.”
-13:34	1030	1030	0943	0728	1228	Religious services held in first class dining saloon.
-12:04	1200	1200	1114	0958	1458	Comparison of Standard to steering compass made by Boxhall & Moody.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
-12:04	1200	8 Bells	1114	0958	1458	
-12:04	1200	1200	1114	0958	1458	Change of Watch Noon –to-four watch comes on duty Location 44 29 W longitude Time difference to GMT -2:58.
-12:04	1200	1200	1114	0958	1458	Pitman & Lowe come on duty as junior officers of watch.
-11:34	1230	1230	1144	1028	1528	Comparison of Standard to steering compass made by Pitman & Lowe.
		1 Bell				
-11:04	1300	1300	1214	1058	1558	Comparison of Standard to steering compass made by Pitman & Lowe.
		2 bells				
-10:34	1330	1330	1244	1128	1628	Comparison of Standard to steering compass made by Pitman & Lowe.
		3 Bells				
-10:22	1342	1342	1256	1140	1640	Ice Message from Baltic – “Have had moderate, variable winds and clear, fine weather since leaving. Greek steamer Athenai reports passing icebergs and large quantities of field ice today in lat. 41° 51’ N, long. 49° 52’ W. Last night we spoke German oiltank steamer Deutschland Stettin to Philadelphia, not under control, short of coal, lat 40° 42’, long 55° 11’ W. Wishes to be reported to New York and other steamers. Commander.”
						From Titanic to Commander, Baltic: “Thanks for your message and good wishes. Had fine weather since leaving. Smith.”
						Captain Smith gives ice message to Bruce Ismay.
-10:22	1342	1342	1256	1140	1640	Titanic’s position reported at about 43° 35’ N, 44° 50’ W.
-10:19	1345	1345	1258	1143	1643	Ice message from Amerika to Hydrographic Office in Washington—“Amerika passed two large icebergs in 41° 27’N, 50° 8’W, on the 14 th April.”
-10:04	1400	1400	1313	1158	1658	Comparison of Standard to steering compass made by Pitman & Lowe.
-10:04	1400	4 Bells	1313	1158	1658	
-10:04	1400	1400	1313	1158	1658	Change of watch for senior officers. Wilde takes over for Murdoch on bridge.
-9:34	1430	1430	1343	1228	1728	Comparison of Standard to steering compass made by Pitman & Lowe
-9:34	1430	5 Bells	1343	1228	1728	
-9:04	1500	1500	1413	1258	1758	Comparison of Standard to steering compass made by Pitman & Lowe.
-9:04	1500	6 Bells	1413	1258	1758	
-8:34	1530	1530	1443	1328	1828	Comparison of Standard to steering compass made by Pitman & Lowe.
-8:34	1530	7 Bells	1443	1328	1828	
-8:04	1600	1600	1513	1358	1858	Comparison of Standard to steering compass made by Pitman & Lowe.
		8 Bells				
-8:04	1600	1600	1513	1358	1858	Change of Watch – 1st Dog Watch begins. (Dog watches are 2 hrs long.) Boxhall & Moody relieve Pitman & Lowe as junior officer of watch.
						Pitman departs bridge for officers dining room to have dinner.
-7:34	1630	1630	1543	1428	1928	Comparison of Standard to steering compass made by Boxhall & Moody.
-7:34	1630	1 Bell	1543	1428	1928	
						Somebody mentions to Boxhall that the air temperature is 31 degrees.
						Boxhall plots ice positions received by wireless over past few days.
						“Chit” with Caronia ice position placed in chartroom by Boxhall.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
-7:04	1700	1700	1613	1458	1958	Comparison of Standard to steering compass made by Boxhall & Moody. According to Pitman, and Boxhall Titanic should have turned "The Corner" about now.
-7:04	1700	2 Bells	1613	1458	1958	
-6:34	1730	1730	1643	1528	2028	Comparison of Standard to steering compass made by Boxhall & Moody.
-6:34	1730	3 Bells	1643	1528	2028	
-6:19	1745	1745	1658	1543	2043	Turn at "The Corner." Quartermaster Rowe notes the time per steering compass.
-6:14	1750	1750	17:03	1548	2048	Time when Boxhall claimed <i>Titanic</i> turned "The Corner."
-6:04	1800	1800	1713	1558	2058	Comparison of Standard to steering compass made by Boxhall & Moody.
-6:04	1800	4 Bells	1713	1558	2058	(Bell cycle re-starts per British Naval custom.)
-6:04	1800	1800	1713	1558	2058	Change of Watch --Second Dog Watch Begins Second Officer Lightoller takes over as officer of the deck for 6 to 10 p.m. watch. Notes course was S 86 W true (266 T in modern notation). Pitman & Lowe relieve Boxhall & Moody.
						Pitman notices ice warning posted in chart room.
-5:34	1830	1830	1743	1628	2128	Comparison of Standard to steering compass made by Pitman & Lowe
-5:34	1830	1 Bell	1743	1628	2128	
-5:04	1900	1900	1813	1658	2158	Comparison of Standard to steering compass made by Pitman & Lowe.
-5:04	1900	2 Bells	1813	1658	2158	
-5:04	1900	1900	1813	1658	2158	Bride takes over radio duties while Phillips goes to dinner.
-5:04	1900	1900	1813	1658	2158	Murdoch allegedly relieves Lightoller for supper. (Contrary to IMM/White Star Regulations.)
						Pitman sees Captain Smith.
						Lamps lighted and placed in emergency boats for use in night rescues.
						Lowe is working on "slip table" for ship's speed.
						Captain Smith departs bridge for dinner with passengers.
-4:54	1915	1915	1828	1713	2213	Captain Smith walks through smoking room & Ismay gives back the ice message.
-4:44	1920	1920	1833	1718	2218	Murdoch tells Lamp Trimmer Hemming to close scuttle o light will not blind the lookouts.
-4:40	1924	1924	1837	1722	2222	Captain Smith enters <i>a la carte</i> restaurant for dinner with Widners, Duff Gordons.
						Daisey Minahan sees Captain arrive and sit down for dinner.
-4:34	1930	1930	1843	1728	2228	Comparison of Standard to steering compass made by Pitman & Lowe.
-4:34	1930	3 Bells	1843	1728	2228	
-4:34	1930	1930	1843	1728	2228	Phillips takes over radio operation from Bride in Marconi room. Bride prepares to go to bed.
-4:34	1930	1930	1843	1728	2228	Lightoller returns to bridge, notes sharp drop in temperature.
						Mrs. Lucian Smith & husband go to dinner in Cafe; see Ismay; and Captain Smith with dinner party.
-4:34	1930	1930	1842	1728	2228	Californian ice message sent to Antillian, picked up by Titanic wireless operations and Bride claims given to one of the officers, but he could not remember which one. "To captain, Antillian, 6:30 p.m. apparent ship's time; lat 42° 3' N, long. 49° 9' W. Three large bergs five miles to southward of us. Regards. Lord."
-4:26	1935	1935	1847	1733	2233	Lightoller begins evening round of star sights. He is assisted by Pitman.
						Bride takes Californian message to bridge before going to bed.
						Ismay dines with Dr. O'Loughlin.
-4:20	1939	1939	1851	1749	2249	Lightoller completes evening round of star sights. Pitman begins resolving sights.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
						Lowe works up ship's DR position to hand to Captain at 2000 hrs change of watch.
-4:19	1945	1945	1858	1743	2243	Bride retires in Marconi room – goes to sleep.
						Mahala Douglas goes to dinner with husband, Walter.
						Major Peuchen leaves dinner and goes to smoking room.
-4:11	1957	1957	1910	1755	2255	Taffrail log read; water temperature taken .
-4:09	1955	1955	1908	1753	2253	Comparison of Standard to steering compass made by Lowe & Pitman.
-4:04	2000	4 Bells	1913	1753	2253	End of second Dog Watch (4 bells sounded per British Naval custom.)
-4:04	2000	2000	1913	1758	2258	Change of Watch -- 8-to-12 Watch takes over. Change of Watch for Junior Officers – Boxhall & Moody come on duty Change of watch for crew – Hichens, Olliver, etc. come on duty
						Olliver takes wheel; Hichens is now "runner" quartermaster.
-4:02	2002	2002	1915	1800	2300	Pitman turns over the unfinished working out of star sights to Boxhall.
						Fifth Officer Lowe retires in his cabin and goes to bed.
-3:34	2030	1 Bell	1943	1828	2328	
-3:34	2030	2030	1943	1828	2328	Comparison of Standard to steering compass made by Boxhall & Moody
						Boxhall starts work on resolving Lightoller's 7:30 p.m. sights.
						Hichens takes message to carpenter regarding fresh water freezing.
-3:04	2100	2 Bells	2013	1858	2358	
-3:04	2100	2100	2013	1858	2358	Comparison of Standard to steering compass made by Boxhall & Moody
-2:39	2125	2125	2036	1921	0021	Daisy Minahan sees Captain Smith leave the cafe. Time imputed from surrounding events.
						Lightoller goes to where he can see directly ahead without interference from foremast rigging.
-2:35	2128	2128	2041	1924	0024	Daisy Minahan listens to orchestra in restaurant, then leaves.
-2:34	2130	3 Bells	2043	1928	0028	
-2:34	2130	2130	2043	1928	0028	Comparison of Standard to steering compass made by Boxhall & Moody
						Edith Rosenbaum Russell goes to first class reading & writing room.
-2:28	2136	2136	2049	1934	0034	Captain Arrives on bridge wing .
						Lightoller talks with Captain Smith about ice and cold temperature.
						Daisy Minahan begins to prepare for bed.
-2:24	2140	2140	2053	1938	0038	Ice message from Mesaba – “From Mesaba to Titanic and all eastbound ships. Ice reports in lat 42° N to 41° 25'N long. 49° to long 50° 30'W. Saw much heavy pack ice and great number large icebergs. Also field ice. Weather good, clear.” This ice message allegedly never delivered to bridge of Titanic.
						Captain Smith leaves the bridge to go “just inside.” Advises he is to be called if anything is doubtful.
						Lightoller has Moody call twice to crew's nest to warn men to look for small ice and growlers.
-2:17	2147	2147	2100	1945	0045	Boxhall says captain on bridge at about 9:00 o'clock. (Note: this fits April 15th hours not yet in use.)
						Hichens takes water temp & obtains 10 p.m. reading of “Cherub” taffrail log – 45 miles since 8 p.m.
						Boxhall & Hichens go to compass platform.
		4 Bells				
-2:04	2200	2200 Becomes 2136	2113	1958	0058	Bridge Time/Bell Clock Set Back 24 minutes after new watch begins. Crew now working on “Bridge Time.” One of ship's two Magneta master clocks adjusted to “Bridge Time” for clocks in crew spaces.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
-2:03	2201	2137	2114	1959	0059	Comparison of Standard to Steering Compass made by Boxhall & Moody
						Lookouts Fleet & Lee take over crow's nest; told to keep lookout for small ice and growlers.
-2:02	2202	2138	2115	2000	0100	Boxhall leaves compass platform to make rounds of the ship.
						James R. McGough retires for evening and goes to sleep.
-2:00	2204	1140	2117	2001	0101	Hichens wakes up Murdoch.
						Mahala Douglas feels excessive engine vibration, thinks engines are running faster than ever. Notices vibration when on stairway "in the center."
						Charles Stengel retires; thinks engines are running faster than ever.
						Olas Ableseth retires in 3rd class .
-1:45	2219	2155	2132	2017	0117	Murdoch on deck, reads night order book, etc.
-1:44	2220	2156	2133	2018	0118	Steward George F. Crowe retires: begins to doze lightly.
-1:40	2224	2200	2137	2022	0122	Murdoch relieves Lightoller as senior officer of the watch. Lightoller goes off duty.
						No bells struck as 4 bells have already sounded.
-1:36	2228	2204	2141	2026	0126	Lightoller returns to his cabin; undresses and gets into bed.
						Boxhall returns to bridge from rounds of ship.
						Hichens takes wheel, Olliver becomes runner quartermaster.
-1:30	2230	2206	2143	2028	0128	Comparison of Standard to Steering Compass made by Boxhall & Moody. (Note: These compass evolutions continue based on April 14th Noon time, not crew Bridge Time.)
-1:06	2254	5 Bells 2230	2207	2058	0158	
						Mrs. Helen Bishop finds the lounge uncomfortably cold.
						Boxhall helps Captain Smith "prick off" positions on the chart.
						Steward Andrew Cunningham is called to go on duty at midnight
						Asst. Steward C.E. Andrews goes off duty.
-0:52	2312	2248	2225	2110	0110	Californian ice message – Phillips cuts it short to work Cape Race. (11:00 p.m. Californian Time)
-0:44	2320	2256	2233	2118	0181	First sighting of ice field. Uncertain hazy line on the horizon. (Later called "haze" in testimony)
-0:40	2324	6 Bells 2300	2237	2122	0222	
						Steward James Johnson goes on duty – night watchman first saloon.
						Mrs. Lucian P. Smith goes to bed.
-0:34	2330	2306	2243	2128	0228	Comparison of Standard to steering compass made by Boxhall & Moody.
						Edith Rosenbaum Russell told "lights out" in reading righting room.
						Edith Rosenbaum Russell finishes picking her two books and leaves for her cabin.
-0:15	2349	2325	2302	2147	0247	Captain Smith summons Lightoller & Chief Officer Wilde to bridge as ship nears ice
-0:10	2354	7 Bells 2330	2307	2152	0252	
-0:07	2357	2333	2310	2155	0255	Quartermaster Olliver departs Titanic's bridge to prepare standard compass platform. Log reading & water temperatures not obtained – probably due to need of Olliver on compass platform.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
						Steward Charles Mackay is in quarters playing bridge.
						Chief Steward John Hardy turns out lights in 2 nd Class public rooms; retires for the night. (Note: he was apparently 5 minutes early for a "midnight" closing of public rooms.)
						Trimmer Cavelle notes steam pressure at 225 lbs.; goes into bunker to adjust coal. (Time uncertain)
						Seaman Walter Brice is in seamen's mess room.
						Boxhall given second instructions to turn left, this time two points to go around ice field. (speculation)
						Captain Smith remains in chart room.
						Olliver checks and adjusts lamps in standard compass so Boxhall can easily read compass card for compass comparison. Discovers problem with lamps – probably wicks need trimming.
-0:07	2357	2333	2310	2155	0255	Boxhall stops in his room before stepping out of side door of officers quarters.
-0:05	2359	2335	1312	2157	0257	Lookouts ring bell 3 times for ice now discernable ahead Time imputed from Scarrott.
						Scarrott hears the lookouts report something ahead by ringing bell shortly after 7-bells.
						Boxhall hears crow's nest bell as he steps out of officers quarters on way to compass platform.
						Olliver on compass platform hears three strikes on crow's nest bell.
						Seaman Frank Osman hears lookouts' bell. He is standing outside crew's dining room.
						Murdoch assesses situation, expecting Boxhall to turn ship two points to left, taking it south of danger.
						Charles Stengel is awakened from dream by his wife.
						Boxhall arrives on compass platform. Signals to begin compass work.
						Beauchamp working in Stokehold #10, aft stbd side of Boiler Room #6.
						Seaman Ed. Buley is sitting in the crew mess, reading.
						Algernon H. Wilson waits for clocks to change so he can reset his watch.
						Jack Thayer waits to reset his watch when clocks change
-0:04	2400	2336	2313	2158	0258	Boxhall signals to begin compass evolutions.
						Fireman Barrett in bunker of hold #3 with Engineer Hesketh discussing oiling of burned steel.
-0:04	2400 or 000	2336	2313	2158	0258	Midnight per April 14th hours Most Probable Time For Passenger Clocks To Have Been Retarded.. Note: Moody occupied with course diversion – clock setback not done (see below).
						3rd class Steward Joseph Wheat begins to turn in after having come off duty.
						Pantryman Victor Pearcey is talking just outside 3rd class pantry.
-0:01:30						Titanic completes two point left turn. Signals Hichens to steady up.
						Fleet and Lee discuss briefly the "dark mass" ahead.
						Hichens has ship steadied up on 232.5 T course.
						Boxhall & Moody ring off on compass evolutions.
-0:00:50						Boxhall leaves platform for bridge on starboard boat deck. Olliver remains briefly to close up binnacle.
						Fleet reaches for telephone to call the bridge
						Moody moves inside chart room to retard Magneta clock controlling clocks serving passenger spaces
						Olliver leaves platform for bridge using the port boat deck route.
-0.00:40						Moody answers Fleet. "Iceberg right ahead!" Moody never retards clocks because of this call.
						Mrs. J. Stuart White sits down on her bunk prior to retiring.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
						Edith Rosenbaum Russel turns on a light in her stateroom.
						Moody passes iceberg warning to Murdoch
-0:0025						Murdoch rings down ASTERN FULL on starboard engine ONLY.
						From turbine room greaser Fred Scott notes engine telegraphs operate.
						Boxhall nearing capt's quarters on way to stairway to B deck. He hears engine telegraph bells
						Olliver does not hear telegraph bells on port boat deck as he walks toward bridge.
						Dillon hears telegraph bells ring in engine room.
						Steward Rule hears bells ring (sound up fiddle from engine room) ; thinks engines full speed astern.
-0:00:08						Titanic's bow encounters calf ice surrounding iceberg on side toward ship.
						Seaman George Hogg awakens and prepares to go on duty at midnight.
						Boxhall starts down stairway to B deck from boat deck on rounds as Stbd Watch officer.
						Olliver walks onto forebridge from the port side.
						Murdoch goes to center of covered forebridge to operate W/T door switch.
						Olliver sees Murdoch closing the watertight doors .
						Barrett and Hesketh hear warning bells on WT doors from inside auxilliary bunker of hold #3.
						Steward Rule hears signal to close WT doors.
0:00	0004	2340	2317	2202	0302	IMPACT – Titanic strikes on iceberg. Olliver feels ship start to rumble over the ice. Lee notices the crow's nest leans slightly to port (starboard side is lifted). Bright, Taylor, Shiers, Symons in bunks, most are asleep. Charles E. Stengel notices slight crash. Barrett sees water come through ship's side in bunker of hold #3 Fireman Beauchamp in boiler room #6 hears a noise "like thunder." Dillon sees engineers racing to stations in reciprocating engine room.
		11:35	11:15 11:20			Time of impact recalled later by various survivors 11:15 Assistant cook John Collings (probably April 15th hours) 11:20 Steward C.E. Andrews (probably April 15th hours) 11:35 Steward James Widgery 11:35 First Class passenger Kornelia Andrews 11:35 First Class passenger E.Z. Taylor 11:40 Steward George Crowe 11:40 Steward Henry Etches 11:40 Boatswain's Mate Albert Haines 11:40 First Class passenger George Harder 11:40 First Class Passenger James McGough 11:40 Steward Walter Nichols 11:40 First Class passenger Alfred Omont 11:40 First Class passenger Spencer Thilverthorne 11:40 First Class passenger Daisy Spedden 11:40 Ship's barber August Weikman (In his barber shop) 11:43 First Class passenger William E. Carter (Smoking Room)

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
		11:45	11:44 11:45 11:45 11:45 11:45 11:45 11:45			Time of impact recalled later by various survivors 11:44 First Class passenger Eleanor Cassebeer 11:45 Third Class passenger Olaus Abelseth (Apparently learned time ex post facto) 11:45 Second class passenger Lawrence Beesley 11:45 First Class passenger Helen Bishop 11:45 First Class passenger Vera Dick 11:45 First Class passenger Anna Hogeboom 11:45 First Class passenger Jack Thayer 11:45 First Class passenger Anna Sophia Warren 11:45 Steward Edward Wheelton 11:45 First Class passenger Hugh Woolner (Smoking Room) 11:46 First Class passenger Marian Thayer 11:50 Third Class passenger Berk Pickard
						Automatic W/T doors begin to fall closed. This takes time due to cataract devices .
						Boxhall comes out on B deck, goes to forward rail on way to ladder down to well deck.
						Brice outside of seamen’s mess feels heavy vibration, not a violent shock.
						Ossman waiting for next watch warning bell feels impact.
						Scarrott feels impact in crew’s mess.
		2340				Ship’s barber Weikman notes time as 11:40 p.m. in his barber shop (clock on crew time).
0:00:03						Boxhall sees “bluff” of the bow strike iceberg.
						Greaser Ranger feels slight jar in the electric shop above turbine engine.
	0004	2340				Col. Gracie is awakened. Notices it is “midnight” on his watch which is keeping April 14th time. E. Ryerson looks out window at about midnight
0:00:04						Hesketh and Barrett slip beneath closing WT door, and into Boiler Room #6.
						Lookout George Symons feels vibration while in his bunk.
						Third Officer Herbert J. Pitman is aroused by noise, but decides to remain in his bunk.
						Baker Joughin feels shock, gets up.
						Major Peuchen in feels a “heavy wave” strike ship
						Hugh Woener feels strange motion of smoking room.
						Poindestre feels vibration.
						James R. McGough is awakened in his stateroom.
						3rd class passenger Olaus Abelseth is awakened in his room.
0:00:07						Olliver hears the rumbling of ship on ice come to an end.
						Boxhall continues forward into the forecandle to check on damage.
						Olliver sees the blue-colored berg glide past starboard emergency boat and disappear astern.
						George Harder sees iceberg go past porthole window. He and his wife get up and begin to dress.
0:00:10						Trimmer Cavell caught in avalanche inside bunker of boiler room #4. Begins digging himself out. (Note: Possible last contact with ice caused this event.)
						Mrs. J. Stuart White—thinks impact felt like ship rolled over a thousand marbles.
						Spencer Silverthorne on promenade deck sees iceberg slide slowly astern.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
						James R. McGough sees ice chunks on ledge of porthole in his cabin.
0:00:11						Scarrott comes out of forecastle, sees ship under port helm, stern slewing away from the iceberg. He sees ice on well deck. Scarrott remembers iceberg as looking like the Rock of Gibraltar.
						Olliver steps into wheelhouse.
						Hichens/Moody reports helm is hard over; Olliver remembers this.
						Scott thinks something wrong in recip engine room
						Boxhall notes ice in well deck as he walks forward to forecastle.
0:00:25						Starboard engine begins revolutions in reverse.
						Norman C. Chambers thinks something is wrong with engines; prepares to investigate.
						Charles E. Stengel is concerned by the rumbling . Gets family up and dressing..
						Moody asks Olliver to note the time of the accident on the bridge clock.
0:00:27						QM Rowe watches iceberg glide past docking bridge on poop deck.
						Smith and Murdoch use both regular and emergency telegraphs to send ALL STOP to engine room.
						Olliver notes that ALL STOP was sent on telegraph.
						Engineers begin to close throttles and divert steam into condensers.
						Automatic W/T doors are now fully closed.
						Murdoch explains what happened to Captain Smith. Moody is in attendance. Olliver overhears.
						Seaman Buley continues reading in forecastle with seaman Ossman. Neither go on deck.
0:00:30						Beauchamp sees stoker indicator go red.; hears leading stoker yell to shut dampers.
						Seaman Samuel Hemming awakens and sticks head out porthole. Sees nothing.
						Hugh Woolner joins men rushing out port door of 1st class smoking room
						Lightoller comes on deck port sid, sees nothing, so goes to starboard side of officer's quarters.
						Bruce Ismay awakens.
						Scarrott goes down stairway to E deck, tells friend in washroom that ship has struck an iceberg.
						Quartermaster Perkis takes no notice of rumbling noise; stays in room.
						Steward Hardy slips on pants and goes on deck; sees nothing.
						Smith, Murdoch, Boxhall go to starboard bridge wing to look for the iceberg.
						Lightoller sees officers looking out starboard side; notes ship's speed has decreased.
						Chief Officer Wilde walks through wheelhouse on way to forebridge
						Seaman John Poingdestre leaves forecastle to go out into well deck.
0:00:45						Bruce Ismay begins looking around to find out what has happened.
						Stewards Crowe, Ward, and Watchman Johnson think lost prop blade will make "Another Belfast trip."
0:00:45						Barrett reports open seam in bunker to Hesketh.
						Steward Mackay goes into Scotland Road where he meets "quite a crew"
						Cook John Collins puts on trousers to see what has happened.
						Steward William Ward looks out his port, sees nothing, goes back to bed.
						Stewardess Annie Robinson gets up and begins to dress.
						AB Ernest Archer goes on deck to find ice; returns to room to dress.
						Seaman frank Osman goes into well deck, sees ice. He is joined by ass't cook John Collins.
0:01	0005	2341	2318	2204	0304	All engines are now stopped for the first time afer accident.

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						Greaser Thomas Ranger notes that turbine engine is stopped.
	0004					Col. Gracie feels engines stop. Gets up and begins to dress. Notes it is "midnight" on his timepiece.
						Charles E. Stengel feels engines stop; tells wife to get up and get dressed.
0:01	0005	2341	2318	2204	0304	Greaser Ranger sees turbine engine has stopped by observing "arms" that come up when it is stopped.
						Bathroom Steward Samuel Rule is awakened by stopping of engines.
						Open seam in side in way of bulkhead D causes concern among Hesketh & Shepherd. The order fires to be drawn to prevent possible boiler explosion if cold water fills Boiler Room #6.
						Beauchamp hears orders to pull down fires in Boiler Room #6.
						Steward Wheat discusses incident with a "mate" in his room on F deck.
						Olas Ableseth notices no water in 3rd class area forward or on Scotland Road, E deck .
0:02	0006	2342	2319	2204	0305	Bruce Ismay meets steward who doesn't know what happened. Goes to put coat over pajamas.
						Chief officer Wilde goes forward to survey damage.
						Olliver sent to rouse out carpenter and instruct him to sound ship.
						Barrett sent to get men from boiler room #5 to help rake down fires in boiler room #6.
						Olas Abelseth goes on well deck, sees ice there. Officer (probably Wilde) says there is no danger.
						Fireman Shiers goes out into well deck to see what happened. Hemming goes back to his bunk
						Greaser Ranger sees chief electrician go down to generating engines. Ranger keeps fixing fan.
						Pitman looks around, sees nothing of interest.
						A.B Frank Evans decides to go out and look around in the well deck.
						Hugh Woolner decides to warn Mrs. Helen Candee.
						Emily Ryerson looks out window and sees only stars and shining, calm sea.
						Poingdestre and Osman go into well deck area and note there is ice on the deck
0:03	0007	2343	2320	0305	0306	Boxhall finishes checking 3 rd class passengers in bow. He goes to well deck on way back to bridge.
						Trimmer Cavell climbs out of bunker and goes down ladder to main level of boiler rm #4.
						A.B. Frank Evans meets officer (probably Boxhall) in well deck who sends Evans to find carpenter.
						Boxhall continues to bridge.
						Pitman meets Lightoller who confirms the ship must have hit "something."
						Ossman leaves well deck and goes below.
						Poingdestre picks up piece of ice from well deck and takes it into forecandle.
						Men summoned from boiler room #5 begin helping pull down fires in #6. (Speculation)
						Bruce Ismay starts for bridge wearing coat over pajamas.
						Evans finds carpenter and gives him officer's message to start sounding ship.
						Night Watchman Johnson hears "things are hot" from stoker visiting galley for a cup of hot water.
						Major Peuchen meets friend on stairs; learns of iceberg. Peuchen goes forward to see ice in well deck.
						Steward Etches hears men calling to shut manual watertight doors in bulkheads.
						Steward Brown hears orders to close watertight doors.
						Steward Wheelton hears shouts about "watertight doors." He goes outside of his cabin.
						Pantryman Albert Pearcey hears orders to shut manual watertight doors in 3 rd class pantry area. He closes both the port and starboard sides.
						Steward Mackay hears orders to close WT doors on F deck.

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						Hesketh sends Barrett into boiler room #5 for extra men to draw fires in boiler room #6. (Imputed)
0:04	0008	2344	2321	2206	0306	Hogg goes below; tells Symons he should get up and dressed.
						Quartermaster Perkis told to turn out by the joiner of the ship.
						Evans tells Hogg they should get ready to go on lookout.
						Lookout Hogg wakes up other lookouts.
						Leading stoker Hendrickson is awakened by T. Ford.
						Steward Crawford sees J. Bruce Ismay with Steward Clark go "on deck."
						Pitman decides not to remain in bunk any longer as there is no use going to sleep again. He starts to dress for coming on watch at midnight.
0:04	0008	2344	2321	2206	0306	Bosun's Mate Haines hears air escaping from forepeak tank. Lamp trimmer Hemming visits forepeak storeroom and hears air hissing out of forepeak tank. (These men do not mention each other, but both mention visit by Chief Officer Wilde.)
						Ismay arrives on bridge where Captain Smith tells him the situation is serious. Steaming to Halifax must have been discussed, but there is no record of what was said.
						Mrs. J. Stuart White leaves stateroom for the deck.
0:05	0009	2345	2322	2207	0307	Boxhall finds manual WT doors in bulkheads C & D are open on F deck.
						Fireman Shiers goes below, sits on his bunk.
						Olliver meets carpenter in Scotland Road forward. Carpenter is already sounding ship.
						Emily Ryerson is told by Steward Bishop, "There's talk of an iceberg, Ma'm."
						Steward Hardy returns to his quarters.
						Steward Rule goes up stairs to boat deck, walks forward.
						AB Frederick Clench sees water in hatch #1.
						Shiers is visited by friend with cut toe. They start for the crew surgery on C deck in forecastle.
						Barrett returns to boiler room #6 with extra hands from boiler room #5. (Imputed)
						Steward tells Norman Chambers to go to bed again.
						James R. McGough told to go back to bed by Steward Dodd.
						Leading Stoker Hendrickson goes to see iceberg.
						Lamp trimmer Hemming and storekeeper search through forepeak storeroom; find it dry.
						Hogg is on deck, does not see confusion, and goes below again.
						Symons checks mess for coffee.
						Olas Abelseth goes to stern to get two Norwegian girls.
						George Harder & Wife finish dressing fully & start for boat deck.
						Cook John Collins finds well deck "packed with ice" on starboard side.
0:06	0010	2346	2323	2208	0308	Pitman comes on deck from his room.
						Lowe remains asleep in his room because Olliver was not on bridge to wake him up at 11:45 p.m.
						Olliver arrives back on the bridge awaiting new instructions.
						Clench returns to his bunk for guernsey and round hat. Sits to have a smoke.
						Poingdestre meets carpenter who has been sounding the wells located in the firemen's compartment. Carpenter reports water has risen to 7 feet. (This is in compartment normally called "hold #1,")
						Boxhall returns to bridge, reports no damage/trouble found in 3 rd class areas forward.

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						George Harder & Wife Dorothy go "inside" to talk to people about what is happening.
						Ismay goes down to Scotland Road, then climbs down crew ladders into engine room.
0:07	0011	2347	2324	2209	0309	Olliver sees Captain Smith telegraph HALF AHEAD. Course is @ 288 T for Halifax. (Speculation)
						Somebody shows Steward Ward some ice collected in the well deck.
						Steward Wheelton goes to room, puts pants over pajamas, puts on coat.
						Mrs. J. Stuart White finds nothing being done about boats. She stands around waiting to find out what is happening. Goes down to B deck.
						Shires and injured man do not find doctor in hospital under forecastle.
						Dillon hears shout to "keep the steam up."
0:08	0012	2348	2325	2210	0310	Captain Smith goes to Marconi office. Sends message to White Star Headquarters in Southampton regarding ship's condition and heading for Halifax. (Speculation)
						Quartermaster Perkis leaves quarters to relieve watch.
						Steward Rule comes down stairs from boat deck to E deck. Sees nothing unusual.
						Steward Johnson enters Glory Hole, finds other stewards are still asleep there.
						Major Peuchen sees ice in well deck; stands talking with Hugo Ross and other friends.
						Shiers and injured man start for the ship's hospital aft on C deck.
						Bride wakes up in Marconi suite. Learns ship has been damaged and will have to go back to H&W.
0:10	0014	2350	2327	2212	0312	Ismay visits Chief Engineer in engine room who says situation serious, but that the pumps holding their own.
						Captain Smith returns to bridge, walking through wheelhouse.
						Boxhall sees Carpenter coming up stairway to bridge. Gets report of flooding.
						"Heading to Halifax, All Safe" message sent to WSL headquarters Southampton. (Speculation)
						Steward Hardy passes the time in his bunk reading.
						Boxhall leaves bridge to check out flooding for himself. Does not ask permission to leave.
						Thinking nothing is seriously wrong, Hendrickson goes below again.
0:11	0015	2351	2328	2213	0313	Captain Smith checks clinometer. (Hichens calles it a "commutator.") 5 deg to stbd per Hichens.
						Phillips sends reassuring message to his mother saying ship is going to be safe. (Speculation)
						George Harder notes a starboard list.
						Major Peuchen meets Mr. Hays and takes him from C to A deck forward to see the ice in well deck. Peuchen first notes ship is "tipping" to starboard.
						Captain writes out message for Olliver to take to Chief Engineer Bell. Olliver departs bridge.
0:11	0015	2351	2328	2213	0313	Ossman in seaman's quarters notes ship is getting "a bit of a list."
						Steward Cunningham peers down stairway to see flooding in mail room.
						Charles Stengel & wife leave stateroom.
						Carpenter reports flooding of post office and forward holds to Captain Smith; goes below again.
0:12	0016	2352	2329	2214	0314	Chief Officer Wilde returns to bridge with news of flooding. Reports to Captain Smith.
						Helen Bishop and husband on A deck where steward tells them to go downstairs. They return to B-47.
						Bride takes over Marconi operation from Phillips.

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0:13	0017	2353	2330	2215	0315	Captain Smith orders the engines to stop for final time.
						Scott in engine room sees STOP command ring down from bridge.
						Hendrickson starts to turn in again.
						Chief Officer Wilde told by Captain Smith to begin preparing lifeboats.
						Mrs. Lucian Smith is awakened by husband. They talk while she dresses.
						3rd class passenger Daniel Buckley finds water on deck of his F deck room. He begins to dress.
						Major Peuchen visits Mr. Molson's room, but finds him out.
0:15	0019	2355	2332	2217	0317	Beauchamp finishes pulling down fires in Boiler Room #6. He stands awaiting orders to go up.
						Engineers go forward on E deck to open suction into firemen's tunnel. (Imputed)
						Greaser Ranger is ordered to shut off 45 electric fans.
0:15	0019	2355	2332	2217	0317	Boxhall meets postal clerk who reports post office flooding; clerk sent to bridge with report.
						Baker Joughin roused out and told to get bread ready for lifeboats.
						Fireman Shiers notes water coming up through hatch #1.
						Lookout Symons goes to mess for coffee. Looks down hatch #1 sees water filling hold #1 on G Deck.
0:16	0020	2356	2333	2218	0318	Boxhall sees mail bags floating in mail room; water within a foot or so of post office on G deck
						Maj. Peuchen goes back on deck where he discovers Molson and they chat.
0:17	0021	2357	2334	2219	0319	Hesketh sends men from BR #5 "back to your stations."
						Postal Clerk reports flooded mail room to Captain Smith.
0:17	0021	2357	2334	2219	0319	Boatswain calls "all hands" to get 12-to-4 watch on deck. Poingdestre & Symons hear call.
						Seamen George Moore & Frank Osman go up to boat deck.
						Fireman Shiers goes below for his coat; notes water.
0:18	0021	2358	2335	1110	0320	This is most likely when steam began to vent from Funnel #1.
						Cook John Collins notices steam venting before he returns to his bunk.
						Col. Gracie notes the blowing steam.
			11:35 pm			First class passenger Kornelia Andrews time of accident.
			11:35 pm			First class passenger E.Z. Taylor time of accident.
						Stokers & trimmers on way to midnight watch change find tunnel flooding.
0:19	0023	2359	2336	0221	0321	Boxhall starts back for ship's bridge. On way notes steam escaping from funnel #1.
						Olliver delivers message to Chief Engineer Bell, then waits for an answer. Notes engines are stopped.
0:19	0023	2359	2336	0221	0321	Hendrickson told of water in tunnel, goes to see for himself.
						Beauchamp is told to go on deck from boiler room #6; he mills about with third class passengers.
						Hesketh, Shepherd, and Barrett climb over bulkhead E inside fiddley to enter boiler room #5.
						Captain Smith goes into chart room, gets ship's position for CQD message.
						Boiler room #6 is now abandoned. Barrett & Shepherd go to boiler room #5
						Steward Etches sees "Mr. Andrews" on B deck. They talk as they go down staircase to C deck.
0:19	0023	2359	2336	2221	0321	Hichens is told "that will do" by Murdoch. Hichens goes to uncover lifeboat B on port side.
						Boxhall meets Steward Dodd in saloon companionway.
						Evans is told by boatswain to go below and tell seamen to come up and begin preparing lifeboats.
						3rd Class passenger Buckley leaves cabin so other men inside have room to dress.

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0:20	0024	0000	2337	2222	0322	Symons says 8 bells should have struck while he was on way to boat deck.
						QM Bright relieves Rowe and the two men talk about what they should do
						Lookout Lee does not notice appreciable list as he comes out of the crow's nest and goes off duty.
0:20	0024	0000 NO Bells Struck 0000 Should be 2337	2337 April 15th time was never official.	2222	0322	Midnight For Crew Only Change of Watch – Fleet is relieved by Hogg; Hichens is relieved by Perkis; Rowe is relieved by Bright; Pitman & Lowe Scheduled to come on Duty Bridge clock not reset at midnight contrary to standard procedure; no bells struck after this time. 8-12 Watch is kept on deck, effectively making an “all hands” situation.
						Olliver sent topside with Chief Engineer's response to Captain Smith's written message
						Steward Crawford puts life belt on Mrs. Rogers and Miss Rogers.
						Olliver notes stokers of 8-12 watch coming out of the boiler rooms onto Scotland Road.
						Boxhall reports flooded mailroom to Captain Smith , Boxhall told to find Lightoller, Pitman and Lowe
						Dillon told to begin opening WT doors forward from recip engine room.
						Scott told to “heave open” the WT doors.
						Murdoch begins to supervise cranking out starboard side lifeboats.
						Boxhall wakes up Lightoller; tells him of flooding in the bow.
						Boxhall tells Pitman of flooding. Pitman goes to his room for a coat, then returns to bridge.
						Boxhall wakes up Lowe who has been “dead” in his bunk. Boxhall returns to chart room.
						Stewards Etches & Andrews meet women outside purser's office. Andrews says “Put lifebelts on.”
						Helen Bishop and husband go back on deck after being warned by another passenger
						Captain Smith instructs Boxhall to update the ship's DR position and take it to the Marconi Room.
0:21	0025	0001	2338	2223	0323	Captain Smith departs bridge to begin inspection trip of ship & send CQD .
						Seamen tell 3rd class passenger Buckley to go on deck “unless you want to get drowned.”
						Hendrickson confirms water is coming forward through tunnel to base of circular stairway.
						Evans meets boatswain on E deck in Scotland Road. Evans asks about carpenter; is told the carpenter “went up.” Evans and boatswain go up to well deck; see billowing hatch cover.
						Steward Rule returns to his room on E deck
						Boxhall begins re-computing ship's current DR location.
						Steward Etches sees Andrews go down stairway to D deck.
						Captain Smith stops in Marconi Office. He gives Phillips a temporarily DR position and tells him to “stand by” for Boxhall's updated DR. Phillips is told to begin sending distress message.
0:22	0026	0002	2339	2224	0324	Phillips takes over Marconi operation from Bride; prepares to send distress call.
						Night Watchman Johnson follows Thomas Andrews, ship's builder, through saloon to engine room.
						Hesketh sends Shepherd and Barrett to return to Boiler Room #6, probably to do with pumping.
						Helen Bishop sees Captain Smith going down stairs on A deck (location uncertain). He speaks to J.J. Astor who goes to her group and says to put on life belts.
						Norman Chambers sees nothing from A deck, goes below, talks to mail clerks about mail room.
0:22	0026	0002	2339	2224	0324	Hendrickson goes aft to search for engineer Hesketh to report tunnel flooding.

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						Shepherd and Barrett climb up to E deck level, then go forward to Boiler Room #6 stairway.
						Scarrott told to "uncover and turn out" the lifeboats.
						Lookout Symons begins uncovering lifeboat #3.
						Captain Smith tells Mrs. J.S. White to go below and put on life vest. She goes back to her cabin.
						Steward Mackay sees Captain Smith on way below. Captain uses crew stairway.
0:23	0027	0003	12340	2225	0325	LaProvence receives Titanic distress signals
0:23	0027	0003	12340	2225	0325	Mount Temple heard Titanic sending CQD. Says require assistance. Gives position. 41.44 N, 50.24 W
0:23	0027	0003	12340	2225	0325	Cape Race hears Titanic giving position on CQD 41.44 N., 50 .24 W.
						Night watchman Johnson sees Captain Smith go down into Engine room.
0:26	0030	0006	2343	2228	0328	Ypiranga years CQD from Titanic. Titanic gives CQD here. Position 41.44 N., 50.24 W. Requires assistance (calls about 10 times). Caronia hears CQD from Titanic.
0:26	0030	0006	2343	2228	0328	Conference among Capt. Smith, Chief Eng. Bell, and Thomas Andrews in engine room.
0:27	0031	0007	2344	2229	0329	BOILER ROOM #6 FOUND FLOODED Shepherd & Barrett find water 8 feet over the stoker plates.
						Steward Wheelton hears order "get lifebelts, get to boat stations." He goes to boat deck.
						Steward Ward told by head waiter to go on deck and wear warm clothes.
						Cook John Collins hears word passed to get out of bed, put on lifevest, and go on deck.
			11:44 pm			First class passenger Eleanor Cassebeer time of accident.
						Shepherd and Barrett report boiler room #6 is flooded to Engineer Harvey in boiler room #5.
						Stoker Threlfall sees tarp over #1 hatch is swollen up.
						Olliver returns to bridge with report from chief engineer. Wilde tells him to find the boatswain and have him prepare boats for lowering.
						Steward Rule hears order from Mr. Penrose to get passengers out and into lifebelts; lock cabins.
						Steward Alfred Crawford ordered to get passengers into lifebelts.
						Pantryman Pearcey hears Steward Kieran, "assist all passengers to the boat deck."
						Steward Mackay told by second steward Dodd to go to passenger decks.
						Steward Edward Brown hears word to go up and help with the boats.
						Steward Wheat goes to Turkish Bath on F deck. His room is located in this area.
			11:45 pm			Third Class passenger Olas Abelseth time of accident.
			11:45 pm			Second class passenger Lawrence Beesley time of accident.
			11:45 pm			First class passenger Helen Bishop time of accident.
			11:45 pm			First class passenger Vera Dick time of accident.
			11:45 pm			First class passenger Anna Hogeboom.
			11:45 pm			First class passenger Jack Thayer time of accident.
			11:45 pm			First class passenger Sophia Warren time of accident
			11:45 pm			First class passenger Sophia Warren time of accident
						Second class passenger Annie Davies begins dressing her children and herself to go on deck.
0:28	0032	0008	2345	2230	0330	3rd class passenger Buckley realizes he forgot lifevest, decides to go back to cabin for it.
						Steward Ward sees steerage going aft on Scotland Road. Goes to "glory hole" to dress.

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						Phone message from engine room to evacuate stokers; Barrett asked to remain behind to run errands.
						In crow's nest, lookouts Hogg & Evans pull weather cloth over their heads.
						Boxhall shows updated DR position to Chief Officer Wilde who nods; Boxhall departs bridge for the Marconi Office. (Note: Boxhall said he showed DR to the captain, but Smith not on bridge.)
0:29	0033	0009	2346	2231	0331	Lights go out in the boiler rooms, but not in the engine rooms.
			11:46 pm			First class passenger Marian Thayer time of accident.
						Hesketh climbs out of boiler room #5 to Scotland Road.
						Trimmer Cavell sent for lamps from boiler room #4.
						Smith and Andrews start forward to view flooding. Accompanied by Chief Engr Bell and Purser McElroy. Captain also seen going forward.
						Buckley fights other 3rd class passengers coming up as he tries to go below to his cabin.
0:30	0034	0010	2347	2232	0332	Hendrickson finds Engineer Hesketh in Scotland Road, tells him of water in circular stairway. Hendrickson is told to get some oil lamps for boiler room #6.
						Engineer Harvey sends Barrett to fetch lamps. Barrett sends firemen to fetch 12 or 15 lamps.
						Stewardess Annie Robinson sees Captain Smith and Purser McElroy going in direction of Mail Room.
						Night watchman Jonsson & Steward Wheat follow Captain and Andrews to the mail room.
						2nd class pass. Miss Phillips tells Annie Davies to get up and get dressed. Steward says nothing wrong.
						Mrs. Lucian Smith starts to go on deck.
						Mrs. Lucian Smith pauses to go back for jewelry.
						Boxhall in Marconi office. Steam too loud for speech. He writes out coordinates on chit of paper.
						Third Class passenger Berk Pickard time of accident.
0:32	0036	0012	2349	2234	0334	Smith and other officers inspect mail room flooding.
						Norman Chambers sees officers at mail room. Hears, "we are not making any more water."
						Seaman Ed. Buley begins lowering boats to deck level for loading.
						Boxhall hands Phillips slip of paper with ship's corrected position.
						Distress call received from Titanic by Carpathia. Titanic said, "Come at once. We have struck a berg. It's a CQD OM. Position 41.46 N. 50.14 W. (First use of Boxhall's corrected coordinates.)
0:33	0037	0013	2350	2335	0335	Cape Race hears MGY (Titanic) give corrected position 41.46 N., 50.14 W. Calling him, no answer.
						Lookout Lee notes water getting into quarters of stokers and trimmers on G deck.
						Threlfall sees water in his quarters starting down circular stairway.
						3rd class Buckley sees water 3 steps up stairway down to steerage (probably on E deck stbd fwd stairs).
0:34	0038	0014	2351	2336	0336	MGY (Titanic) says CQD. Here corrected position 41.46 N., 50.14 W. Require immediate assistance. We have collision with iceberg. Sinking. Can nothing here you for noise of steam. Ypiranga.
						Captain Smith starts back for the bridge.
						Hendrickson gets lamps from engine room and starts forward with them.
						Mr. Andrews tells Stewardess Annie Robinson to put on life belt, "if you value your life."
						Night watchman Johnson & Steward Wheat looks into flooding mail room.
						George Harder & wife, Dorothy, go to room for life vests.
						Steward Mackay sees Captain Smith on way back to bridge. Captain goes "up the same staircase."
						Stewardess Annie Robinson peers down into mail room and sees flooding.

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						Steward Hardy told by chief steward to begin getting passengers up and into their life belts.
						Hendrickson finds 3rd class passengers blocking Scotland Road with suitcases as they move aft.
						Steward Elizabeth Leather gets up about "a half hour or three-quarters" after the accident.
0:35	0039	0015	2352	2237	0337	Titanic sends "I require assistance immediately. Struck by iceberg in 41.46 N. 50.14.W."
0:36	0040	0016	2353	2238	0338	Wilde Tells Boxhall to help organize uncovering of lifeboats.
						Hendrickson finds boiler room #6 flooded, instead he takes lamps into boiler room #5.
						Night Watchman Johnson goes to "glory hole #3" to change clothes. Other stewards are still asleep.
						Baker Joughin gathers bread, goes to boat deck to provision the lifeboats.
0:37	0041	0017	2354	2239	0339	Hendrickson told to put lamps to water gauges in boiler room #5. He is then told to begin drawing fires.
0:38	0042	0018	2355	2240	0340	Titanic gives his position to Frankfurt and says "tell your captain to come to our help. We are on ice."
0:38	0042	0018	2355	2240	0340	Caronia sent CQ message to Baltic regarding Titanic CQD message.
0:38	0042	0018	2355	2240	0340	Mount Temple hears Titanic calling CQD. Cpt. Moore awakend by radio officer; ship starts for Titanic.
						Pantryman Pearcey helps 3rd class through emergency door to go up to boat deck.
0:39	0043	0019	2356	2241	0341	Captain Smith returns to bridge; orders the launching of lifeboats. Evacuation Begins
						Steward Wheat assisted by Dodd & Crosby close one w/t door in Turkish Bath.
						Engineer Harvey sends Hendrickson to get more men to rake down fires in boiler room #5.
0:40	0044	0020	2357	2242	0342	Captain Smith finds Boxhall to confirm updated DR position has been given to Marconi operators.
						Buckley sees 3rd class passengers break gate on outside ladder from well deck to B deck. Goes up.
						Charles E. Stengel & Wife are on deck. They are told to back to get life belts. They go to stateroom
						Emily Ryerson sees people in corridor; is told to put on life vest.
						Norman Chambers goes to his room to dress. He pauses to check with steward about life belts.
						Mrs. Lucian Smith is ordered to A deck with other women to board boats.
0:41	0045	0021	2358	2243	0343	Pitman sees water rising in hatch #1.
						Hendrickson sees 3rd class passengers on suitcases (probably D deck open space beneath well deck).
						Bride takes Carpathia's response to Captain Smith who is in wheelhouse.
						Captain Smith goes to wireless office with Bride.
						Pitman returns to return to the bridge.
						Baker Joughin notes door from 3rd class into 2nd class stairway is open to allow 3rd class to boat deck.
						Boxhall sends lamp trimmer Hemming to get lamps for lifeboats.
						Hendrickson finds off-duty men from the 8-12 watch on F deck. He sends them aft to boiler room #5.
						Night Watchman Johnson looks at his lifeboat assignment. Sees Purser McElroy and others on C deck.
0:42	0046	0022	2359	2244	0344	Boxhall sees light which might be steamer to the north of Titanic.
						Hendrickson sees tarp over hatch #1 billowed up. He starts aft to report billowed hatch cover.
0:43	0047	Clock Not Changed	0000	2245	0345	TRUE MIDNIGHT for 50 24 W Lon. Time Meridian This longitude is for reference only. Titanic never achieved 50 24 w Longitude. Crew Bell clock was not retarded to April 15th time due to ongoing emergency.
						Barrett returns to Boiler Room #5 with 15 or 20 men. They distribute lamps and pull down fires.
						Steward Hardy begins awakening passengers
						Steward John Hart ordered to send women and children to boat deck.
						Steward Wheat on E deck closes other w/t door in Turkish Bath (door on F deck).

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
						George Harder notes crew with wrench adjusting something at a "WT" plate—probable W/T Door.
0:44	0048	0024	0001	2246	0346	Prinz Wilhelm calls Titanic. Titanic asks "are you coming to our? We have collision with iceberg.
0:44	0048	0024	2359	2245	0345	Lamp allows Barrett to see lack of feed water in boilers. Sent for men to pull fires in Boiler Room #5.
						Bright and Rowe arrive with detonators on the bridge.
						Trimmer Cavelle sees 3rd class passengers "wet through" in Scotland Road.
0:45	0049	0025	0002	2247	0347	Hendrickson goes to engine room; reports swollen hatch cover to Farquharson. He sees Bell there.
						Threlfall takes his personal dunnage to mess room.
						Seaman Thomas Jones sees firemen bringing up their "bundles" to take them out of the water.
						Lookout Lee sees men berthed on lower decks bring their bags up.
						Pitman sees firemen coming up from G deck carrying their dunnage
0:45	0049	0025	0002	2247	0347	Lights come back on in boiler rooms.
						Steward Jos. Wheat told by Purser McElroy to get stewards and pass out lifebelts to passengers.
						Steward Wil Seward told to go on deck by the "second steward."
						Olaus Abelseth and "girls" see light on horizon from stern of Titanic.
						Lightoller begins to crank out boats on port side.
						Pitman goes to lifeboat #5. Begins to uncover this boat. Lowe begins helping lifeboat #5 for lowering.
						Seaman John Poingdestre goes to quarters on E deck to fetch his sea boots.
						Emily Ryerson sees people in corridor; is told to put on life vest.
						Captain Smith on boat deck orders passengers sent to A deck for loading.
						Hugh Woolner reminds Captain Smith that windows on A deck are closed.
						Ismay tells Pitman to hurry up with loading lifeboat #5.
						Dillon is part of detail of men opening w/t doors forward from engine room into boiler rooms.
0:46	0050	0026	0003	2248	0348	Mount Temple hears Frankfurt give MGY (Titanic) his position 39.47 N., 52.10 W.
						Buckley is given lifevest by first class passenger who has one extra.
						Steward Wheat finds other stewards are nearly all "turned out" from F deck rooms.
						Pantryman Pearcey passing 3 rd class through emergency door to 1 st class companion to the boat deck.
0:46	0050	0026	0003	2248	0348	Boat #7 launched from Starboard side by Murdoch & Lowe. First Boat Away.
						Norman Chambers & wife appear on the boat deck.
						Charles E. Stengel & Wife return to boat deck; see men prepping boats.
						Night Watchman Johnson meets second steward at lifeboat #2. Helps put plug in boat.
						Steward Crawford on boat deck; goes to boat #5 first, then to lifeboat #8.
						Steward Mackay helps load lifeboat # 3.
0:48	0052	0028	0005	2250	0350	Hendrickson meets storekeeper on E deck; they talk over situation.
						Cavell told to help rake down fires in boiler room #4.
						Rowe & Bright are mystified to see lifeboat in the water.
						Steward Wheelton starts helping load lifeboats on boat deck.
						Night Watchman Johnson speaks to Chief Officer Wilde, then goes below for overcoat.
0:49	0053	0029	0006	2251	0351	Hendrickson gets lifevest and goes on deck to boat #12.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
						Steward Mackay goes to help loading of boat #7. Steward Wm. Ward helps load boat #7.
						Rowe & Bright phone bridge and are told to come forward with detonators.
						George & Dorothy Harder watch first lifeboat launched. Mrs. Bishop is there.
						Mrs. J. Stuart White climbs into lifeboat #8.
						Charles Stengel puts wife into lifeboat #5.
						Mrs. Lucian Smith gets into lifeboat #6
00:50	0054	0030	0007	2252	0352	Rowe and Bright each take box of detonators and go forward from poop to bridge.
						Steward Seward checks the lifeboat stations list for his position in the boats.
						Steward Wheelton sent to storeroom for lifeboat supplies.
0:50	0054	0030	0007	2252	0352	Poingdestre sees wooden bulkhead between seamen's quarters and 3 rd class break and water come from forward of where he slept. This takes place on E Deck.
						Ryerson family & maid dress. They can hear tramping of feet on deck overhead.
						Wheat and other stewards help passengers with lifevests.
0:51	0055	0031	0008	2253	0353	Boxhall fires the first rocket from the bridge.
						Lowe sees Bruce Ismay at lifeboat #3 in the flash from Boxhall's rocket.
						In crow's nest, Hogg and Evans push back the weather cover and see people on deck running about with life belts on.
						Barrett told to lift manhole on starboard side of Boiler Room #5.
						Major Peuchen notes people on deck. Peuchen goes to cabin to change clothes and get his life belt.
						Steward Wheelton is helping load lifeboat #5
						Steward Mackay looks at loading of lifeboat #9.
						Fireman Taylor says water coming up hatch #1 below his quarters on deck F.
						Dorothy Harder pushed into lifeboat by J. Bruce Ismay; George Harder follows into lifeboat #5.
						Hogg & Evans telephone bridge, but get no answer.
0:53	0057	0033	0010	2255	0355	Titanic calls Olympic -- SOS
						Trimmer Cavell arrives in boiler room #4 with lamps, which are no longer needed.
						During launch prep of Lifeboat #5 Olliver notes deck is "not so overcrowded" with people.
						Chief Officer Wilde tells night watchman Johnson to stand by the falls of lifeboat #2.
						Trimmer Cavelle told to draw fires in boiler room #4.
						In boiler room #4, Dillon told not to open W/T door in bulkhead F leading to boiler room #5. He notes water a foot deep at head of boiler room #4. This happens prior to flooding in boiler room #5.
0:55	0059	0035	0012	2257	0357	Rowe helps Boxhall set up rockets.
						Fireman Shiers ordered into boat #5.
						Steward Brown helps load lifeboat #5 with women and children.
						Steward Crawford sees Ismay warn Murdoch that lifeboat #5 is not level as it starts down.
0:55	0059	0035	0012	2257	0357	Boat #5 launched from Starboard side by Murdoch, Lowe, & Pitman
						Olliver has trouble installing plug in Lifeboat #5 before it hits the water.
						Dillon finishes opening W/T door in bulkhead G to boiler room #4; moves forward to bulkhead F.
						Steward Wheelton goes to storeroom via B deck to crew stairway down to Galley on D deck.

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						Steward Mackay goes to boat deck.
						Colonel Gracie is ordered to the lifeboats.
						Steward Brown goes to lifeboat #3 to assist loading.
0:58	0102	0038	0015	2300	0400	Titanic calls CQD "I require immediate assistance Position 41.46.N. 50.14 W. " Received by Celtic.
0:58	0102	0038	0015	2300	0400	Mrs. Lucian Smith says women wait on A deck, then go back up to boat deck and re-join husbands.
0:58	0102	0038	0015	2300	0400	Charles Stengel prepares to enter boat #1. He says there was no one else around the boat.
						Second class passenger Annie Davies leaves her cabin with her children to go on deck.
						Steward Wheelton sees Thomas Andrews checking B deck cabins for passengers.
						Steward Cunningham sees other bedroom stewards coming on duty.
						From Lifeboat #5 Olliver notes ship is down 20 feet in bow, up by the stern. (@ 3 dgree down angle)
						Major Peuchen sees stokers on boat deck in front of boats. They are pushed back by an officer.
0:59	0103	0039	0016	2301	0401	Steward Hart takes group of passengers to boat deck.
						Engineer Shepherd falls in open manhole and breaks leg. Is dragged to "pump room" where he will be out of the way. Boiler room visibility is obscured by steam, but boiler room #5 is still essentially dry.
						Trimmer Cavell says about a foot of water is over top of stoker plates in boiler room #4 as men finish pulling down the fires. NOTE: This flooding observed prior to flooding of boiler room #5.
						Baker Joughin goes to boat deck with bread.
						Steward Rule sees Bruce Ismay near boat #3.
						Steward Mackay helps passengers into boat #3.
						Emily Ryerson & family arrive on A deck and begin standing around in life vests.
						Steward James Johnson goes to boat #2; Murdoch puts him to work on falls of lifeboat #3.
						Steward Brown helps load lifeboat #3.
1:00	0104	0040	0017	2302	0402	Boat # 3 launched from Starboard side by Murdoch & Lowe.
						Steward Brown goes to help load Lifeboat #1.
						Steward Crawford arrives at lifeboat #8 where he meets Chief Officer Wilde.
						Steward Mackay goes to boat #7.
1:01	0105	0041	0018	2303	0403	Caronia to Baltic "Titanic wants immediate assistance."
						Men working in boiler room #5 to pull down fires.
						Lamp trimmer Hemming puts lighted oil lamp in lifeboat #8 (per Steward Crawford.).
						Bosun tells Hendrickson to help with lifeboat #1.
						Captain smith comes out of officers quarters.
						Night watchman Johnson goes back to glory hole for coat. Sees water in unspecified companionway.
						Stwd Crawford sees Mrs. Isadore Strauss refuse to get in boat. Capt Smith puts Crawford in boat #8.
						Steward Hart loads his group of passengers into boat #8. He goes below again.
1:02	0106	0042	0022	2304	0404	Barrett sees rush of water through "pass" between boilers in boiler room #5. Harvey sends him up.
						Lightoller asks Captain Smith if he should lower boat. Smith nods and Lightoller launches lifeboat #8.
1:02	0106	0042	0019	2304	0404	Barrett notes there was no overtopping of bulkhead E before boiler room #5 flooded. Water on E deck is not yet entering Scotland Road. He continues going up to Boat Deck.

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						Venting of steam from funnel #1 suddenly stops. (Note relationship to flooding of boiler room #5.)
1:02	0106	0042	0019	2304	0404	Boat # 8 launched from Port side by Lightoller, Wilde, & Smith. "An Officer" tells Hendrickson to jump into lifeboat #1.
1:03	0107	0042	0023	2305	0405	Lookouts Hogg & Evans go down from the crow's nest. Firing of Rocket clears area at front of bridge (per Hendrickson) nobody around lifeboat #1.
1:03	0107	0042	0023	2305	0405	Boat # 1 launched from Starboard side by Murdoch & Lowe. Symons says ship is listed to starboard when boat #1 is launched. Steward Wheelton on deck with supplies he thinks are for boat #9. Baker Joughin second trip to boat deck with bread. Lowe sees lights of ship on the port bow. Thinks it is steamer with two masthead and red sidelights. Baker Joughin sees 3 rd class passengers coming through emergency door in second class staircase.
1:07	0111	0047	0024	2309	0409	Scott sees engineers carrying suction pipe forward in engine room.
1:08	0112	0048	0025	2310	0410	Titanic gives distress signal. DDC replies. Assistance from DDC not required.
1:08	0112	0048	0025	2310	0410	Titanic replies to Olympic and says, "We have struck an iceberg."
1:08	0112	0048	0025	2310	0410	Boat #6 launched from Port side by Lightoller. Lifeboat #6 starts down; occupants want another crew. Launching stopped for a moment. Major Peuchen slides down boat falls into lifeboat #6.
1:08	0112	0048	0025	2310	0410	From lifeboat #1 Symmons sees forward ports of D deck at bow going under water. Greaser Ranger climbs escape in dummy funnel uptake.
1:09	0113	0049	0026	2311	0411	Purser McElroy Tells Steward Wheat to get his men on deck to boat stations. Greaser Ranger finds 20 firemen in milling around in the 2 nd Class Smoking Room.
1:10	0114	0050	0027	2312	0412	Titanic calls Asian and says, "Want immediate assistance." Asian operator takes message to his bridge.
1:10	0114	0050	0027	2312	0412	Virginian calls Titanic but gets no response. Mrs. Lucian Smith sits inside the gymnasium awaiting the preparation of lifeboats.
1:12	0116	0052	0029	2314	0414	Steward Wheat visits his quarters on F deck near Turkish Bath.
1:14	0118	0054	0031	2316	0416	Steward Wheat sees water coming down stairs from E deck to F deck (over boiler room #6). Cook John Collins decides there is no room in "his" boat #16, so goes to starboard side.
1:15	0119	0055	0032	2317	0417	Boat # 16 launched from Port side by Moody & Smith.
1:15	0219	0055	0032	2317	0417	Steward Wheat checks his "glory hole" on E deck, finds no one, goes to B deck. Baker Joughin goes "scouting around." Steward Wm. Ward goes to help with lifeboat #9. Dillon sent on deck from the engine room. Steward Wm. Ward assists loading women into Lifeboat #9. Second class passenger Annie Davies gets in lifeboat #14. Son Joseph is denied entry in boat.
1:16	0220	0056	0033	2318	0418	AB Scarrott loading Lifeboat #14. Uses tiller to "persuade" some men away
1:16	0220	0056	0033	2318	0418	Steward Wheat meets Chef Steward Latimer on B deck. Steward Brown begins helping bring collapsible C on boat deck to #1 davits.
1:17	0221	0057	0034	2319	0419	Boat # 14 Launched from Port side by Lowe, Wilde, Lightoller.
1:18	0222	0058	0035	2320	0420	Titanic to Olympic, "We are in collision with berg. Sinking head down. Come soon as possible."
1:18	0222	0058	0035	2320	0420	Titanic to Olympic, "Get your boats ready. What is your position?"

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						Trimmer Cavell comes out of boiler room #4; sees no one in Scotland Road; goes up to boat deck.
						Night watchman Johnson comes on deck to find "not a soul" in his boat—Lifeboat #2.
						Seaman Walter T. Brice helps lower lifeboat #11 to level of A deck.
						Barrett says forecastle head still above water when he came on deck.
1:21	0225	0101	0038	2323	0423	Steward Wheat goes to boat deck. He goes to boat #9.
						Murdoch tells Stewards Wheat & Wheelton to take passengers to A deck at lifeboat #11.
1:22	0126	0102	0039	2324	0424	Boat # 9 launched from Starboard side by Murdoch.
						Wheat asks Mackay to help with loading of lifeboat #11 from A deck.
						Steward Ward says ship down by bow, but not listing as he was lowered in Lifeboat #9.
						Dillon hears boat deck yell for more women. Dillon is in after well deck at the time.
1:23	0127	0103	0040	2325	0425	Baltic to Caronia, "Please tell Titanic we are making towards her."
						Baker Joughin sees other boats filling, goes below.
						Steward Wheat forms two lines on A deck to protect boats loading there. Women & Kids passed first.
						Steward Mackay goes to lifeboat #11, but finds it lowered to A deck level.
						Steward Wheelton takes women down to A deck at lifeboat #11.
						At boat #2, night watchman Johnson sees 30 or 40 women go down to A deck.
1:27	0131	0107	0044	2329	0429	Boat #12 launched from Port side by Lightoller.
						Scott leaves engine room. Says it is still dry.
						Boxhall sees Bruce Ismay on bridge; the two speak briefly.
1:28	0132	0108	0045	2330	0430	Virginian hears Cape Race inform Titanic "We are going to his assistance."
						Steward Mackay helps load passengers in #11 – sees boat lowered to A deck. Takes women down.
						Steward Hart starts up from 3rd class with another group of passengers.
						Steward Wheat ordered into lifeboat #11 by Murdoch. Stewards Wheelton & Shepherd enter boat #11.
1:33	0137	0113	0050	2335	0435	Caronia tells Titanic "Baltic coming to your assistance."
1:33	0137	0113	0050	2335	0435	Olympic sends position to Titanic. Asks, "Are you steering southerly to meet us?" Titanic replies "We are putting the women off in boats."
1:33	0137	0113	0050	2335	0435	Titanic and Olympic work together.
						Murdoch orders two seamen down falls into lifeboat #11. They slide down to boat from boat deck.
						Seaman Brice slides down falls into lifeboat #11 and ships the rudder. People are put aboard.
1:35	0139	0115	0052	2337	0437	Boat # 11 launched from Starboard side by Murdoch. (Moody on A deck?)
						Seaman Brice says boat # 11 almost swamped by discharge of ship's bilge pump.
						Steward Wheelton says boat #11 has problems releasing the "afterblock."
1:35	01390	0115	0052	2337	0337	Titanic says, "We are putting the women off in the boats."
						Steward Mackay arrives at boat #15.
						Barrett goes directly to boat #13. Beauchamp standing nearby.
						Lifeboat #15 receives some passengers from boat deck, then boat #15 is lowered to A deck level.
1:37	0141	0117	0054	2339	0439	Last of distress rockets fired by Boxhall.
						Barrett climbs into lifeboat #13. Beauchamp volunteers to go as oarsman.
						Steward Rule says men sent "scouting" around for passengers to load in lifeboat #15 at A deck level.
						Symons from Boat #1 sees forecastle head is under.

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						Greaser Scott coms on deck; sees about 8 engineers on deck.
1:38	0142	0118	0055	2340	0440	Titanic tells Olympic, we are putting passengers off in small boats."
						Daniel Buckley gets into lifeboat #13 with a "big crowd of men."
1:38	0142	0118	0055	2340	0440	Boat #13 launched from starboard side by Murdoch.
						Night watchman Johnson puts lighted oil lamp into lifeboat #2.
						Steward Rule says officers get anxious to launch boat #15 because of the increasing port list.
						Trimmer Cavell ordered into lifeboat #15.
						Boat #15 lowered to A deck for loading. Steward Rule and 5 other crew in boat as it is lowered.
						Steward Hart takes his second group of passengers to load in boat #15.
						Steward Rule helps women and children get into boat #15.
1:42	0146	0122	0059	2344	0444	Boat #15 launched from Starboard side by Murdoch . (Moody on A deck?)
						Boat # 15 nearly comes down on boat #13 because of Titanic's head-down attitude. (Rule)
						Night watchman Johnson tries to find women to load into lifeboat #2.
						Boxhall told to get into Boat #2 by Captain Smith.
						Murdoch orders collapsible C to be put into the davits.
						Lifeboat #2 lowered to the A deck level. It is only partially full
						Night watchman Johnson says attempt made to get more people in boat #2. He gets in boat.
1:42	0146	0122	0059	2344	0444	Boat #2 launched from Port side by Wilde & Smith.
						Osman claims ship still had list to starboard when boat #2 was launched.
						Captain Smith goes to Marconi office; tells Phillips and Bride to leave the ship
						Baker Joughin forcibly brings women up to boat #10 from A Deck.
						Bride & Phillips return to tuning the Marconi transmitter.
1:43	0147	0123	0100	2345	0045	Olympic asks Titanic what weather he had. Titanic replies, "Clear and calm."
1:43	0147	0123	0100	2345	0045	Baltic hears Titanic say "Engine room getting flooded."
1:43	0147	0123	0100	2345	0045	Mount Temples hears Frankfurt ask "Are there any boats around you already?" No reply.
						Something happens to cause loll to port. (Poss. crack port side boiler room #1) Time Approx
						Chief Officer Wilde tells Scarrott to begin loading lifeboat #4.
1:50	0149	0125	0102	2347	0047	Baltic tells Titanic, "We are rushing toward you."
						Seaman Ed. Buley watches passengers "thrown" into lifeboat #10.
						Collapsible D moved to davits.
						Chief Officer Wilde tells seaman Ed Buley to get in boat #10 with Evans.
						Baker Joughin notes list to port swings lifeboat #10 about a yard and a half from side of ship.
1:52	0151	0127	0104	2349	0449	Boat # 10 launched from port side by Murdoch.
1:53	0152	0128	0105	2350	0050	Olympic to Titanic, "Am lighting up all possible boilers as fast as can."
1:53	0152	0128	0105	2350	0050	Cape race says to Virginian, "Please tell your captain the Olympic is making all speed for Titanic...The others must be a long way from Titanic."
						In lifeboat #10 Buley says "port bow light" was under water when boat was lowered.
						Evans says port light was about 10 feet above water when this lifeboat was launched.
						Greaser Scott climbs into lifeboat #4.
1:53	0157	0133	0110	2355	0455	Last signals heard from Titanic by Carpathia, "Engine room full up to boilers."

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1:53	0157	0133	0110	2355	0455	Mount Temple hears Frankfurt calling Titanic. No reply. Pantryman Pearcey goes to boat deck. Baker Joughin goes back down to his room.
1:54	0158	0134	0111	2356	0456	Boat #4 launched from Port side by Lightoller. Q.M. Perkis slides down line into lifeboat #4. Collapsible C begins loading Ship's barber, Weikman, sees J.Bruce Ismay at this boat. Woolner sees water coming over forward bulwark of A deck. Goes up to boat deck. Steward Brown Assists loading of Collapsible sees J.Bruce Ismay help women and children into boat. Pantryman Parcey passes two babies to collapsible boat being loaded by Murdoch.
1:55	0159	0135	0112	2357	0457	Caronia hears Titanic, though signals unreadable still. From lifeboat #4 Emily Ryerson notes boat deck is only 20 feet above water which is entering portholes of still lighted cabins which are flooding. Hugh Wooner sees two flashes of gun as Collapsible C is lowered. Hears Murdoch, "Get out of there." Steward Brown sees Ismay climb into collapsible C before it is lowered down. QM Rowe gets into Collapsible C as it is launched. Murdoch orders pantryman Percy into collapsible boat to take charge of babies.
1:56	0200	0136	0113	2358	0458	Collapsible C launched from starboard side by Murdoch & Wilde. Baker Joughin notes some water against port side of ship in his cabin as he has drop of liquor. QM Bright climbs in Collapsible C as it is lowered. Due to port list, Rowe has difficulty getting Collapsible C to slide past rivet heads on the way down.
1:56	0200	0136	0113	2358	0458	Asian hears Titanic call SOS. Asian answers, but receives no reply. Hugh Wollner and Stefansson go down to A deck again.
1:58	0202	0138	0115	2400	0500	Caronia hears Frankfurt working to Titanic.
2:00	0204	0140	0227	0002	0502	Clock in Strauss cabin stops. (Magenta clock wired to ship's system.) ((Estimated from photo of clock.)) Bride opens discharger box to help tune transmitter for Phillips. (Physical evidence in wreck.) Steward Brown turns to helping get collapsible A off roof of officers quarters. Weikman helps load the "last" lifeboat. Joughin talks to "old doctor" outside his room on E deck.
2:01	0205	0141	0118	0003	0503	Collapsible D launched from Port side by Lightoller. QM Bright hangs on after fall to level boat on way down. Woolner & Steffanson leap into Boat D as it passes A deck windows. Approximate time Chief Officer Wilde sent everyone to starboard side to level out list. (per Lightoller) QM Bright says forecastle head was just going under as collapsible D was launched. Lightoller & Hemming go to roof of officers quarters to work on Collapsible B. Weikman helps with "next" boat, but finds deck angle is getting too steep. Lightoller intends to throw Collapsible B bodily down to deck, but has troubles moving boat. From lifeboat #10 Buley says rudder and proppers can be seen. From lifeboat #6 Maj. Peuchen sees stern pointing up "considerable."
2:03	0207	0143	0120	0005	0505	Cape Race to Virginian, "We have not had Titanic for about half an hour. His power must be gone.

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2:03	0207	0143	0120	0005	0505	Rostron on <i>Carpathia</i> thinks he sees a green flare half point on port bow.
						Col. Gracie offers his knife to break loose Collapsible A from roof of officers's quarters.
						Roll to port is increasing.
						Hemming leaves Lightoller at Collapsible B to cross over to starboard to help with Collapsible A.
						Virginian hears Titanic calling very faintly, his power being greatly reduced.
						Steward Brown helps rig "planks" (actually oars) to ease bow of collapsible A down to the boat deck.
						Cook John Collins sees lifeboat A taken down off roof.
						Virginian hears 2 V's signalled faintly in spark similar to Titanic. Probably adjusting spark.
						Lifeboat A breaks oars used as skids to get it down to the starboard boat deck.
						Steward Brown helps hook up tacks to collapsible A. (Note discrepancy with Hemming below.)
						Virginian hears Titanic, call CQ, but unable to read him. Titanic's signals end very abruptly as if power suddenly switched off. His spark rather blurred or ragged.
						Phillips opens main DC power switch to shut down Marconi Apparatus before leaving the Marconi office. Bride & Phillips escape out starboard side of officers quarters.
						Hemming goes down to boat deck. He is told not to hook up tackles on collapsible A.
						Collapsible B is "thrown down" to boat deck (per Lightoller). Water coming onto boat deck as boat slams down on deck.
						Steward Brown sees Captain Smith come past collapsible A.
						Scott says Lifeboat #4 gets to stern of the ship. Distance unspecified (@100 yards?).
						Bride & Phillips start toward Lifeboat A to help with launching.
						Captain Smith sends people to starboard side – witnessed by Hemming.
						Baker Jouhin comes to boat deck, sees all boats gone, goes down to A deck.
						Lightoller sees Captain Smith crossing bridge.
						From lifeboat #14 Scarrott sees bridge go under and propellers are clear of water.
						From lifeboat #12 Poindestre says propellers and "everything" visible. Water to officers house.
						From Lifeboat #1 Symons sees ship take a "top cant". Stern out of water.
						Baker Joughin begins throwing deck chairs overboard. He notes that list to port has increased.
						Bride and Phillips climb to top of officer's quarters and cross over toward port side.
						Hemming leaves Collapsible A and crosses to port side through the forebridge.
						Symons in Boat #1 sees lights going off; rows 200 yards away from ship. Starboard nav light still burning. Propellers are just out of the water to Symons.
						Lightoller notes crow's nest is still above water. Bow is now down about 11 degrees.
						Col. Gracie hears water gurgle over bridge railing. He is stopped from going aft by swarm of people come out of first class entrance on boat deck.
						Hemming dives off port side and swims toward lifeboat.
						Capt Smith seen jumping overboard by Bride. (Same anecdote from McGann.)
						Joughin in A deck pantry at base of funnel #3 for drink of water. Hears crash "as if something buckled."
						From lifeboat #1 Stengel hears four sharp sounds like explosions as ship suddenly dips.
						From boat #9 Steward Wm. Ward sees ship "give a sudden lurch forward." Hears volley of musketry.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
2:09	0213	0149	0127	0011	0511	MOST LIKELY TIME BREAKUP OF HULL STRUCTURE BEGINS IN WAY OF B.R. #1. FRONT OF BRIDGE DIPS UNDER.
						Ship takes "dive." Lightoller "walks off" into the water.
						Dillon feels ship "take plunge" then right self. He goes aft.
2:09	0213	0149	0127	0111	0511	Collapsible B washes off port side of boat deck. It comes away first because port list puts that side of boat deck under water first.
						Passengers begin to rush out of forward first class entrance.
						Cook John Collins hears shouts "for all they were worth" from people on forward end of starboard boat deck yelling to go aft. He starts for the stern with child in his arms.
						Joughan hears rush of people running aft overhead on the boat deck. He leaves pantry.
						Passengers begin a rush for collapsible A.
						Col. Gracie fails in first attempt to reach the top of officer's quarters roof.
						Lightoller starts to swim away from starboard side of ship.
2:10	0214	0150	0127	0111	0511	Funnel #1 collapses to port.
						From lifeboat seaman Clench thinks he hears an explosion
						Steward Brown hears report of explosion , sees afterpart "tremble"; lights stil burning then.
						From lifeboat #1 Symons hears second of two explosions
						Lightoller sucked against fiddley grate.
						Wave from funnel overturns collapsible B on top of Bride. B is pushed over wheelhouse roof.
2:10	0214	0150	0127	0012	0512	Weikman is washed away from ship by a wave. Watch stops at 1:50 a.m.
2:10	0214	0150	0127	0012	0512	Postal Clerk J.S. March washed off boat deck. Watch stops at 1:27 a.m.
						Cook John Collins attempts to help family move aft on starboard side of boat deck. He is washed overboard about amidships. He later claims a baby was washed from his grasp.
						Seaman McGann washed off deck. (Apocryphal).
						Wave from funnel #1 washes over top of starboard bridge wing.
						Steward Brown jumps in Collapsible A to cut falls, but is washed out of boat as he does so.
2:10	0214	0150	0127	0012	0512	Collapsible A washes off starboard side of boat deck.
						Col. Gracie uses wave to leap from boat deck to top of first class entrance above grand stairway.
						John Poingdestre, seaman, thinks ship broke apart at funnel #1. From lifeboat #12.
						From Lifeboat #2 Osman sees ship explode" after it got to certain angle
						Lightoller surfaces and is dragged under again.
						Col. Gracie is pulled under water while holding onto deck rail.
						Water filling boiler room #1 and engine room causes middle of hull to sink.
						From Lifeboat #4 Ranger sees after end come back slowly to a level keel.
						From Lifeboat #4 Scott sees after end come back slowly to even keel.
2:11	0215	0151	0128	0013	0513	Joughin transfers pocket watch from front to "stern" pocket; notes time as "quarter past two."
						From boat #4 Ranger sees lights "going out" as stern regains even keel. Lights burning on after end.
						Daniel Buckley sees lights going out from lifeboat 13.
						Alfred Crawford, steward, sees lights going out on the forward part of the ship
						Weikman sees floating deck chairs, begins to swim for them.

Linear Hours	April 14 Titanic	Bridge Time (Bells)	April 15 Titanic	New York Hours	GMT London	Description of Events
						Cook John Collins surfaces, sees lights on after end of ship, then starts to swim for dark object.
						Gracie surfaces, but does not see Titanic in haze on water
						Lightoller surfaces again and sees stern still afloat -- thinks ship is intact.
						Joughin sees people rushing aft into well deck as ship lists to port. People thrown in "heap."
						Dillon sees funnel #4 tilted toward him on poop deck.
						Joughin walks along starboard side of stern toward the poop.
2:16	0220	0156	0133	0018	0518	Water reaches fireboxes in boiler room #2; coal soot blows out funnel #3. Lights out in the after part of the ship. Titanic disappears from view of most people in lifeboats.
						Boxhall sees lights go out on the ship.
						From Lifeboat #1 Symons sees all the lights go out.
						Steward C.E. Andrews sees the lights go out altogether from lifeboat 16.
						From Lifeboat #7 Jewell sees lights went out forward, then he heard some explosions "two or three."
2:16	0220	0156	0133	0018	0518	Robert Norman's watch stops at 3:07 a.m. which in 4/13 hours is 2:20 a.m. in 4/14 hours.
						Lightoller reaches lifeboat B. At this point there are "quite a few" people in water around the lifeboat
2:16	0220	0156	0133	0018	0518	Daisy Minahan hears someone in boat #4 say that it is 2:20 a.m.
2:16	0220	0156	0133	0018	0518	Boxhall tells people in his lifeboat the time is 2:20 a.m.
2:17	0221	0157	0134	0019	0519	Funnel #2 topples, Base kicking to port, top falling in water to starboard.
						From lifeboat seaman Clench hears his second explosion.
						Jack Thayer watches funnel #2 topple; decides to leave the ship.
						Lightoller next to Collapsible B is almost struck by falling funnel. Most people around boat disappear.
2:17	0221	0157	0134	0019	0519	Jack Thayer jumps into the ocean from starboard side.
2:18	0222	0158	0135	0020	0520	Col. Gracie's pocket watch stops at 2:22 a.m. in April 14th hours.
2:18	0222	0158	0135	0020	0520	Jack Thayer's watch stops at 2:22 a.m. in April 14th hours.
						From lifeboat #5 Olliver hears several small explosions.
						Rowe hears sound like distant thunder.
						From Lifeboat #6 Maj. Peuchen hears last of three explosions from above water.
						Cook John Collins hears explosion, sees stern "blown up." (Probably meant upended.)
						From Lifeboat # 10 Evans sees ship "part" between third and fourth funnels. Sees about 200 feet afloat
						Buley sees ship break in two in way of recip engine room.
						Olliver witnesses breakup from lifeboat.
						Frederick Scott, Greaser, sees ship break at after funnel from lifeboat #4.
						From Lifeboat #4 Ranger sees forward end go "underneath, " and break off.
						From Lifeboat #10 Buley sees bow sink, then stern "came up" for about "five minutes."
						From Lifeboat #1 Symons thinks stern will float after it rights itself. Break abaft expansion plate.
						Frank Evans, seaman, sees ship part between third and fourth funnels from lifeboat 10.
						George Symons, lookout, thinks the poop will float by itself after breakup.
						From Lifeboat #1 Symons sees bow go "down clear."
						Poingdestre sees ship "short" after bow section sinks.
						Evans thinks about 200 feet of stern floated after breakup.
2:21	0225	0201	01:38	0023	0523	Austin Partner's pocket timepiece stops (found on his body). Stopped at 2:25 a.m.

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						Pitman asks Lifeboat #5 to go back, but passengers implore him not to return.
						Maj Peuchen hears cries of people on upended stern of ship.
						Joughin feels stern sinking as if it is “going away” from him.
2:23	0227	0203	0140	0025	0525	Titanic’s Stern Disappears. Ship Is Now Totally Gone.
2:23	0227	0203	0140	0025	0525	Stewardess Annie Robinson notes time on her watch as 1:40 a.m.
						Joughin floats off poop as stern sinks; he does not think his hair even got wet.
						Numerous witnesses report hearing underwater explosions after stern disappears.
						Dillon picked up by Lifeboat #4.
				0030	0530	Olympic asks if Virginian has heard anything about Titanic. He says, "No." Calls to Titanic not answered.
				0030	0530	Olympic asks Helig Olav for news of Titanic. Olav replies “No.”
						Olympic unable to get reply from Sable Island.
						Steward Brown reaches overturned collapsible B; finds 15 or 16 men on it.
						Mount Temple passes “schooner” green light. Hears schooner’s fog whistle. Starboards helm.
						Mount Temple sees “tramp” steamer ahead after turn to avoid schooner.
				0106	0606	Mount Temple runs into ice on way to Titanic distress coordinates.
				0115	0615	Virginian signals Baltic. He tries to send our message for Titanic, but his signals died utterly away.
				0125	0625	Mount Temple hears Carpathia send, “If you are there we are firing rockets.”
				0135	0635	Baltic sends message for Titanic.
				0140	0640	Carpathia calls Titanic.
				0158	0658	Birma thinks he hears Titanic, so sends, “Steaming full speed for you. Shall arrive you 6-0 in morning. Hope you are safe. We are only 50 miles now.”
						P.A.S. Franklin, New York head of WSL, awakened at home by reporters inquiring about <i>Titanic</i> .
				0200	0700	Carpathia calls Titanic. Ypiranga says have not heard from Titanic since 11-50 p.m.
				0202	0702	Carpathia stops.
				0232	0732	Carpathia picks up lifeboat #2.
				0300	0800	WSL New York asks <i>Olympic</i> to communicate with <i>Titanic</i> .
				0305	0805	News reports from Cape Race— Titanic called CQD after striking iceberg.
				0330	0830	Celtic sends message to Caronia for Titanic. The Caronia after trying for two hours to get through to Titanic tells Celtic impossible to clear his message to Titanic. Celtic then cancels message.
				0510	1010	Olympic signals Asian. Asian has German oil tank in tow for Halifax. Asian’s speed 5 knots. Asian says, “I last heard Titanic at 4:58 a.m. GMT calling SOS.”
				0530	1030	Olympic asks LaBretagne for news, but “he knows nothing.”
				0545	1045	Olympic asks asian for news, but is referred to Baltic.
				0602	1102	Californian comes on recovery scene per Rostron of Carpathia.
				0615	1115	WSL New York cables WSL Liverpool about wireless reports Titanic has struck iceberg.
				0605	1105	<i>Olympic</i> replies to WSL New York with Titanic’s last coordinates 41.46 N, 50.14 W.
				0632	1132	Last of lifeboats picked up in 41 46 N, 50 14 W per BOT final report.
				0645	1145	Mount Temple hears Carpathia report rescued 20 boat loads.

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				0710	1210	Baltic in communication with Carpathia receives news regarding Titanic's passengers.
				0715	1215	Baltic turns round for Liverpool, having steamed 134 miles west toward Titanic.
				0745	1245	Olympic signals "Ismy," New York: "Since midnight, when her position was 41.46 north 50.14 west, have been unable to communicate. We are now 310 miles from her, 9 a.m. under full power. Will inform you once if hear anything."
				0755	1255	Carpathia tells Baltic it is proceeding to Halifax or New York with about 800 survivors.
				0800	1300	Carpathia to Virginian – we are leaving here with about 800 passengers on board.
				0830	1330	Both operators on Virginiian stood by all night and exchanged positions and news re: Titanic with Californian, Frankfurt, Parisian, and Carpathia who were all bound for scene of disaster.
				0830	1330	Californian receives confirmation from Asian of Titanic calling for aid. No new information.
				0835	1335	Dow Jones News Service reports WSL New York says passengers being taken off in boats.
				0902	1402	Dow Jones News Service quotes WSL official saying "no danger Titanic will sink."
				0925	1425	Olympic learns from Parisian that Carpathia has picked up about 20 passengers & Baltic is assisting.
				0930	1430	Franklin tells reporters Titanic was still afloat 6 hours after accident.
				0933	1433	Dow Jones News Service reports Titanic passengers left in boats after 3:30 this morning.
				0943	0443	Montreal reports Titanic still afloat and making slowly for Halifax.
				1012	1512	Mesaba tells Olympic "no information" about Titanic. Warns of ice in area.
				1025	1525	Olympic sends: "Ismy New York, Parisian reports Carpathia in attendance and picked up 20 boats of passengers and Baltic returning to give assistance."
				1033	1533	WSL New York to Captain Smith: "Anxiously awaiting information and probable disposition passengers."
				1035	1535	Parisian warns of ice in latitude 41.22.
				1115	1615	WSL New York asks New Haven Railroad to prepare train to pick up passengers in Halifax.
				1207	1707	Dow Jones News Service reports that office of Horton Davidson, Titanic Passenger, received wireless that "All passengers are safe and Titanic taken in tow by Virginian."
				1212	1712	Dow Jones News Service publishes tht Titanic is under way and proceeding to New York.
				1300	1800	WSL New York gets report from Parisian that Carpathia picked up 20 boats of passengers.
				1310	1810	New Haven RR tels WSL New York that train will be ready by 5 or 6 p.m.
				1400	1900	WSL New York asks Olympic to communicate with Virginian about Titanic.
				1501	2001	Dow Jones News Service publishes that WSL is starting train to Halifax.
				1600	2100	Carpathia tells Olympic, "South point pack ice 44.46 north. Also says, "Fear absolutely no hope searching Titanic's position. About 675 souls saved. Titanic sank about 2.20 a.m. in 41.16 north; 50.14 west."
				1820	2320	Olympic confirms to WSL New York that Titanic sank at 2:20 a.m.
				1830	2330	"Yamsi" wireless messge to WSL New York confirms Ismy aboard Carpathia.
				0802	1302	April 16 – WSL publishes that Titanic has sunk with 1,500 deaths.

NOTE: RADIO MESSAGE TIMES

Radio messages are shown based on their New York times as published in the British Board of Trade Final Report ("Mersey") on the sinking. These times appear to be 9 minutes later than events on the ship, or three minutes earlier than actual New York hours, for a total difference of 12 minutes. No explanation for these time differences has ever been forthcoming. The New York times shown agree reasonably well with events on the ship with only one major exception, the times quoted for the last signals received by Virginian are after Titanic's radio office would have been submerged, per the stopped timepieces of Weikman, March, Thayer, and Gracie. Therefore, as necessary the published New York times for these last receptions by Virginian BOT times have been ignored and the messages placed where logic dictates.

CAUTION: Times Presented In This Chronology Are Approximations Made To The Best Of The Author's Ability. Times Presented In This Chronology Have An Assumed Accuracy Of Plus-Or-Minus 10 percent, or 6 Minutes.

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