1. INTRODUCTION weapon arsenal war U-Boat

2. war u-boat menace thing war Allies base operation invasion place

3. U-Boat technology tactics combat success combatant nation vessel type year volume production

4. defeat u-boat threat intelligence coup discovery German enigma device reconstruction device cryptologist code British signal traffic submarine supply vessel rendezvous point convoy area u-boat wait

5. space discovery time development direction finder detection device tide war u-boat fact part war u-boat odd achievement Waffe

6. reportage majority u-boat commander duty fashion type warfare fact figure war attempt u-boat man war criminal manner case submarine crew water counterpart

7. u-boat crewman war selection procedure Waffe cream personnel personality commander discipline u-boat crew man dependent day u-boat veteran community Waffe war memorial

8. mention u-boat ace name achievement u-boat ace achievement submarine warfare sinking enemy warship u-boat engagement u-boat ace enemy vessel cruise officer name u-boat fraternity

9. book reader overview achievement Waffe war study uniform insignia u-boat crew

10. war u-boat action navy total submarine day war u-boat fleet war cruise target event u-boat minefield warship cruise failure u-boat success cruiser pathfinder week force warship space hour cruiser bottom hero member crew boat emblem cross potency u-boat weapon attack shipping

11. thing faction government proportion material ship attack country war side beginning German hope victory war sea determination water coast war zone warning shipping ship war material month total shipping ton ton

12. decision submarine warfare German nation state death citizen command liner tip liner contraband war material form thousand case ammunition shrapnel shell fuse sinking liner loss life outrage

13. consequence isolationism way viewpoint decision war

14. attack passenger ship attack merchant ship German bulk u-boat effort theater number space month ship total ton torpedo victim gunfire adversary crew ship instruction landfall ship bottom end war total enemy ship ton

15. ally effect u-boat summer ton hipping British use cruiser merchantman u-boat surface cruiser gun u-boat war u-boat war case survivor captain u-boat fleet vessel submarine supply war material blockade water end year loss crisis proportion ton October December

16. kaiser support u-boat war effort u-boat crew success ton enemy march total ton ton entry war u-boat campaign knee ton admiralty thing war end year

17. month British convoy system merchant ship degree protection dividend percent ship convoy percent ship time ally series operation flow coast channel coast u-boat Atlantic

18. weapon submarine depth charge u-boat victim entry state war influx warship ally convoy protection duty u-boat loss u-boat loss production loss u-boat position war favor flirtation concept u-Cruisers submarine gun success command faith u-boat wonder weapon victory u-boat loss comparison tonnage level morale u-boat crew year peace negotiation action enemy shipping part u-boat suppression mutiny end u-boat crew order fire vessel flag

19. u-boat port surrender

20. submarine enemy action u-boat crewman action u-boat offensive u-boat weapon potential navy ash

21. war treaty force navy u-boat rise rearmament program u-boat firm technology design know-how

22. family firm engineer build submarine sale power fact firm component u-boat construction accession treaty end year component use assembly u-boat yard number u-boat

23. navy period strength veteran supporter u-boat weapon superior dedication command duty enthusiasm success man level readiness year post commander u-boat

24. war type type boat type u-boat mainstay boat u-boat ace success outbreak war rank

25. day outbreak war command liner cruiser ally intention submarine warfare case propaganda value ally attack passenger liner embarrassment German action kind passenger ship news aircraft carrier month morale blow base flow battleship oak loss life end u-boat strength success sinking oak status u-boat eye fuhrer

26. year consolidation u-boat course year enemy action increase wolf-pack tactics convoy fall German facility operation Atlantic

27. ship ton ship bottom ton loss ship u-boat attack ton year ace achievement fame sinking enemy warship rank knight cross cross score enemy merchant restriction u-boat operation water war zone merchant shipping base German opportunity u-boat operation shipping water coast

28. u-boat crew hero crew percent volunteer caliber practice crew boat construction boat month boat time boat war cruise boat crew machine crew member skill comrade commander

29. sea man condition type foot foot point space machinery equipment torpedo man bunk comrade system watch bedspace comrade shift board shaving luxury wash soap use sea water condition clothes atmosphere foul top toilet ration action man

30. home war cruise best u-boat man train home leave u-boat pay allowance sailor leisure facility u-boat crew

31. squadron condor reconnaissance aircraft disposal move commander control order u-boat enemy convoy

32. type boat ton ton type service effect cruise Atlantic water

33. March month ace crew u-boat u-boat operation u-boat course year strength vessel end year total enemy ship ton

34. success use radar detection u-boat entrance state war arsenal weapon side achievement aircraft carrier ark battleship

35. entry state u-boat water operation ship time American security time harbor light ship navigation light radio traffic u-boat difficulty target area ship month year march action fuel resupply war zone range u-boat end ton shipping vessel American convoy system security result u-boat success water

36. tack u-boat action traffic oil tanker devastation ally convoy tactics success thrust campaign boat water Atlantic incident war sea

37. command troopship cry survivor water troopship troop prisoner war number civilian woman child foot u-boat survivor prisoner war guard ship survivor shark bite water

38. deck survivor position u-boat submarine warship rescue operation step position guaranteeing ship rescue

39. scene number survivor lifeboat preparation arrival warship day sinking liberator bomber flag gun position intention bomber personnel board officer lamp message woman child board bomb number survivor plane base death damage u-boat option rescue survivor board lifeboat scene boat pilot message bridge home attack ground u-boat threat shipping survivor

40. u-boat commander boat crew risk rescue operation

41. year u-boat production strength boat enemy ship ton total measure u-boat loss time

42. beginning ally launch attack u-boat base shipyard sea success Atlantic convoy u-boat wolf-pac march convoy attack ship u-boat joy point u-boat war tide

43. ally enigma device war escort vessel version hand charge u-boat party enigma machine copy code British message u-boat location u-boat destination target ally u-boat loss

44. enigma device part answer code time enemy code time intelligence code period u-boat success introduction version machine intelligence week code success measure hedgehog mortar torpedo aircraft sound engine detection device u-boat field strength ship aircraft death knell u-boat u-boat action Atlantic convoy torpedo

45. u-boat operation Atlantic u-boat loss enemy ship ton number year

46. u-boat activity u-boat action invasion fleet

47. installation snorkel equipment u-boat battery water chance detection ship aircraft case

48. development launching type u-boat vessel type type luxury food storage device torpedo tube need crew service vessel introduction combat service

49. invasion end u-boat base u-boat base u-boat time u-boat loss launching ship ton

50. month war u-boat operation war water

51. dozen u-boat action end war combat action surface force cruiser screen destroyer u-boat escort attack cruiser order hostility target

52. month year u-boat ship ton

53. success year war u-boat deal total enemy ship ton loss spirit man u-boat life adversary determination man respect enemy visitor u-boat memorial wreath tribute navy adversary

54. organization command structure command u-boat capacity tier commander force chain command commander navy post navy command branch administration construction operation

55. line u-boat navy interest command u-boat

56. u-boat command department department

57. u-boat uniform uniform course century item hat uniform world war duplication text deal detail uniform garment difference uniform era study uniform period reader work uniform tradition

58. tunic rouser reefer jacket service dress officer warrant officer reefer jacket issue clothing u-boat crew sea evidence show part occasion regulation trouser footwear

59. reefer jacket worsted cloth collar lapel style skirt pocket flap breast pocket side flap jacket row anchor motif button reefer jacket navy pair pair decoration

60. rank officer mean ring wire braid ring ring ring ring ring majority u-boat rank rank posting flotilla commander

61. sleeve ring wire emblem officer career branch line star cogwheel gilt-wire crown star abolition monarchy

62. officer warrant officer breast jacket emblem eagle swastika wire cellulose cord wire salt air

63. warrant officer sleeve ring rank trade mean shoulder strap cloth braid edging center anchor motif trade symbol rank aluminum pip button jacket anchor motif anchor rope shank edge button border era button crown anchor button clothing border finish

64. reefer jacket shirt tie

65. pea jacket pea jacket service dress rank month rank equivalent greatcoat cloth reefer jacket skirt pocket

66. pea jacket outfitter sailor pullover shirt row anchor button example button plastic pea jacket pair button change reefer jacket pair button lapel jacket

67. collar patch pea jacket rank shade pea officer strip braid officer strip braid officer collar braid edging

68. breast pea jacket eagle swastika emblem yarn

69. Rank trade series arm badge rank trade symbol chevron officer anchor trade symbol officer chevron insignia badge cotton embroidery cloth officer example badge

70. officer crown anchor insignia crown trade specialty insignia wide embroidery wearer specialty trade branch

71. parade jacket parade jacket form wear occasion parade award ceremony short body officer mess jacket monkey jacket wool pair anchor button chain button base lapel

72. center front panel row anchor button cuff strip cloth button cuff parade jacket officer officer rank braid

73. crown motif button era parade jacket style era

74. parade jacket eagle swastika emblem breast level button rank trade insignia sleeve fashion pea jacket parade jacket sailor pullover shirt pea jacket sailor collar jacket

75. pullover shirt navy navy world service dress rank pullover shirt effect outfit shirt sailor collar silk neckerchief

76. pullover shirt garment cuff button fastening front shirt chest cornflower cord shirt shirt flap collar

77. eagle swastika emblem shirt silk backing rank trade specialist insignia sleeve manner pea jacket parade jacket exception badge shirt

78. form dress wear board submarine photograph show

79. summer version shirt cornflower cuff insignia backing pullover shirt u-boat crew conjunction parade jacket ceremony parade

80. trouser footwear uniform trouser officer warrant officer reefer jacket material bottom fly front button fastening button waistband brace pocket pocket side

81. officer warrant officer shoe leather shoe leg boot trouser leg shoe ankle-boot

82. rank officer sailor trouser cloth flap fly front leg bottom knee sailor trouser front crease crease navy part rig trouser shaft

83. footwear trouser army jackboot cork sole

84. work shirt cut pullover shirt work shirt moleskin cloth patch pocket breast insignia insignia silk neckerchief moleskin work trouser shirt uniform washing

85. summer tunic photograph show u-boat officer tunic service tropic board ship u-boat water base uniform shore service dress

86. tunic collar patch pocket breast skirt front anchor motif button cuff

87. issue tunic eagle swastika emblem breast pocket sleeve ring tunic rank mean strap insignia button

88. trouser tunic shirt tie shoe

89. work jacket work jacket use grade u-boat personnel jacket patch pocket skirt pocket flap drill fabric button button eagle swastika emblem breast bottom sleeve strap adjustment

90. uniform personnel branch service period training infantry period uniform

91. blouse army stock army clothing personnel version collar pocket patch breast slash pocket shirt blouse button anchor motif

92. eagle swastika emblem breast pocket thread base collar patch army style bar mouse litzen stripe center space bar

93. training shoulder strap trainee soldier career time uniform

94. trouser blouse foot wear jackboot end trouser shaft boot gaiter

95. uniform u-boat personnel uniform tunic drill material fastening patch pocket breast skirt tunic collar neck pocket flap button tunic style dress color breast pocket eagle swastika yarn backing

96. shoulder strap rank officer pattern summer tunic rank jacket braid sleeve cuff

97. shirt pullover type fastening slash patch breast pocket loop shoulder seam shoulder strap eagle swastika breast badge tunic breast pocket

98. wear tunic shirt trouser trouser loop slash pocket button pocket side trouser belt loop pocket fob pocket front panel knee

99. u-boat uniform battledress battledress u-boat crew wear sea evidence form u-boat personnel blouse short garment drill material patch pocket pocket flap jacket button cuff blouse sleeve button fastening

100. blouse waistband tail-piece side tongue belt attachment friction buckle side waistband standardization fitting blouse example show button button anchor button uniform shoulder strap breast eagle officer chevron braid metal point collar blouse neck button

101. trouser material belt loop cloth belt friction buckle bottom leg strap

102. stock lightweight denim battledress fall use u-boat crew pattern wartime photograph clue battledress flap pocket piece flap cuff blouse button fastening blouse wristband trouser battledress patch pocket knee leg

103. ankle-boot form dress form footwear u-boat cam shoe sole leather material canvas upper heel side toe leather material u-boat running

104. leather clothing form leather jacket personnel u-boat crew button crown

105. personnel jacket leather garment fastening stand-up collar pocket breast ith flap skirt pocket flap bottom sleeve leather strap button fit cuff jacket leather u-boat crew

106. personnel leather jacket deck deck personnel jacket button pair jacket neck weather skirt pocket flap slash pocket level cuff jacket seam chest level jacket engine personnel leather u-boat personnel shoulder strap

107. type jacket material trouser jacket jacket

108. leg piece leather seam leg front pocket button brace

109. wear wear jacket material slash pocket level lining sleeve wrist collar throat strap side rear wearer head

110. overrtrousers material draw-string waist slash opening access trouser

111. cape head shoulder front face ensemble sou'wester form dress watch bridge u-boat tooth Atlantic storm

112. headgear range headgear navy mean crew u-boat section type photograph basis

113. cap cap headgear officer warrant officer version navy wool doeskin top dimension band mohair capband leather peak leather edge binding leather chinstrap anchor motif button

114. insignia officer wire wreath oakleave cockade color top crown insignia mohair band cap

115. warrant wreath oakleave crown cockade crown ribbon streamer top cap use cover use symbol u-boat commander schirmmutze predecessor crown wire stiffener appearance saucer shape crown cap insignia cockade shape eagle emblem

116. set insignia cockade cap insignia color cockade front cap eagle swastika device

117. cap crown wire stiffener appearance officer peak cloth leather cloth grouping band scallop curve cap band oakleave rank up-ward band oakleave cap insignia wire celluloid thread eagle swastika summer top warrant peak leather leather edge binding

118. practice u-boat commander summer top boat commander cover summer month cap variety top top top

119. sailor cap navy wool top band tally ribbon name wearer shore establishment cap sailor top year tally ribbon silk length cap excess tail

120. insignia cockade color plate metal eagle eagle swastika base cockade color

121. ribbon wire block personnel silver personnel tally block letter letter lettering time war block letter cap crown cap

122. cap flat use cotton silk lining flap cap center front rear cap front eagle swastika badge cockade color

123. officer cap aluminum braid flap insignia thread bullion thread u-boat commander rank pattern

124. summer version twill lining eagle swastika insignia thread

125. sailor infantry training version cloth insignia backing

126. cap cap personnel twill material flap peal eye sun grommet side crown ventilation front eagle swastika base cockade color lining cotton officer cap aluminum braid crown

127. sun helmet navy sun helmet use submariner photo u-boat crew man exception rule

128. steel helmet steel helmet personnel army helmet edge type difference army navy pattern insignia side helmet decal shield eagle swastika navy shield army helmet era shield anchor

129. cap cap issue fin personnel u-boat crewman wool tube end end pom-pom cap nickname poodle cap

130. belt buckle accouterment belt rank leather end catch side inside face leather tongue pair hole buckle face buckle side loop belt catch bar prong attachment tongue

131. face buckle disc round edge disc spray edge legend center buckle crown period eagle eagle swastika buckle steel example number alloy aluminum service wear service belt use area material

132. officer service dress belt brow leather buckle claw finish color parade occasion aluminum brocade cloth line brocade belt edge buckle wreath oakleave field anchor crown example slide style belt side buckle buckle line officer silver official version buckle mm-wide fabric belt jacket coat dagger sword strap slit lining pocket flap

133. accouterment form ammunition pouch pistol holster leather strap belt support personnel army pattern