

Overhaul of Fear God & Dread Nought

Christopher Carlson Historicon 2017

Admiralty Trilogy Seminar

Introduction

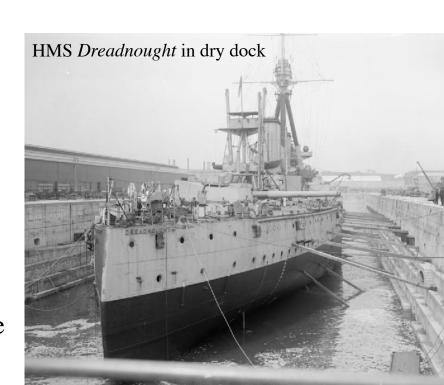


- → Fear God & Dread Nought first edition published in 2001
 - Development hinted at modeling discontinuities
 - Problems weren't perceived as severe and work arounds were put in place to reduce the "edge effects" of the combat system models
 - Development of *Dawn of the Rising Sun* (2004) made it abundantly clear the problems were bigger than first realized
- ◆ Admiralty Trilogy design team began a multi-year effort to correct and unify the combat modeling and the game mechanics for all the games within our system
 - See the Cold Wars 2009 presentation on the ATG website for more details
 - Command at Sea 4th ed (2008) was the first "harmonized" product
- \bullet Overhaul of the *FG&DN* rules began in 2010
 - FG&DN 1.1 Damage Rules revision came out in early 2011 & 2012
 - The rest of the rules are *finally* under full scale revision

Overhaul Overview



- Format The rules will deal exclusively with the game mechanics,
 explanatory and historical information will be moved to a separate product
 - Based on positive feedback we received on *Persian Incursion*
- Visual Detection
 - Ship-to-ship model now the same as in Dawn of the Battleship (DoB)
 - Air-to-ship ranges greatly reduced
 - Ship-to-air ranges increased
 - Visual identification as in *DoB*
 - Searchlight model the same as in DoB
 - Major revision to starshell rules
 - Can be employed in both fire phases
 - Reduced area of effectiveness
 - Night time illumination only reduces the effect of low visibility, doesn't negate it



Overhaul Overview



Gunnery

- FG&DN first edition was the basis for gunnery used in other games
- Long and Extreme range band base chance to hit reduced to 5% and 1% respectively
- Long and Extreme range band gunnery modifiers halved
- Changes to optical rangefinders
 - German RF operator eyesight modifier (Naval SITREP 52)
 - Coincidence RF reduced effective range in poor visibility conditions
 - Speed penalty for Royal Navy ships (Naval SITREP 52)
- Overconcentration now starts after two ships
- Attacks against land targets will be resolved as in DoB

Damage

- Retained the FG&DN 1.1 rules with slight modifications due to *DoB*
- Break out flooding from torpedoes and mines from shells and bombs
- More graceful failure of the torpedo protection system

Visual Detection



- \diamond Ship-to-ship detection changed to conform with DoB
 - Detection ranges rounded to nearest 500 yards
 - Variability simplified, single die roll, no math
 - Roll d100, run across until a column with a higher detection prob is reached
 - Example: 38.0 kyds visibility, roll 68, detection range is under the 75% column

Visibility Range		Probability of Detection and Visual Detection Range (kyds)			
(kyds)	10%	25%	<i>50</i> %	<i>75%</i>	100%
40.0	40.0	38.0	34.5	30.0	27.0
38.0	38.0	36.0	32.5	28.0	26.0
36.0	36.0	34.0	31.0	26.5	24.5
34.0	34.0	32.5	29.0	25.0	23.0

- Air-to-ship detection ranges to be reduced by about half
 - Low grazing angles make it hard to spot wakes
- ♦ Ship-to-air detection ranges will increase by about 1/3
 - Reflects the use of binoculars and narrower search sectors by ship lookouts

Visual Detection



- \bullet Visual identification will be the same as in DoB
 - Very simplistic ship, type, nationality, class die roll
 - Hull down/hull up table entries
- ♦ Searchlight model same as *DoB*
 - Detection die roll approach identical to visual detection
- Starshells
 - To hit die roll the same as any other gunnery attack
 - Starshells cannot be used randomly, requires a previous detection
 - Single die roll to determine where the starshell goes if it misses
 - Combines range and bearing error
 - Effective illumination range is reduced to 1,500 yards
 - Can be used in both Planned and Reaction Fire Phases
- Illumination only reduces the effect of low visibility caused by reduced lighting – no longer a net positive modifier

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Gunnery

- Base chance to hit for Long and Extreme Range Bands reduced from 10% and 5% respectively to 5% and 1%
 - Detailed research into late 19th century and early 20th century gunnery exercises and World War I reports showed we are too optimistic
 - A gun may physically be able to shoot that far, but hitting the target at extreme range is a completely different issue
- Gunnery modifier multiplier for Long and Extreme Range Bands reduced from 2 to 1
- Changes to how optical range finders affect gunnery
 - Germans will get a modifier to allow greater effective range finder range
 - Details in Naval SITREP #52
 - Coincidence range finders will have their maximum effective range reduce by 15% in poor visibility (≤40%)
 - Barr & Stroud range finders have a -1 modifier for speeds ≥20 knots

ROMENT PRICES

Gunnery

- Overconcentration modifier will be changed to allow two ships to fire on the same target without penalty
 - 1924 U.S. Naval War College Gunnery lecture notes addresses the results of an experiment on the impact multiple ships firing at the same target
 - Report will be posted on the ATG website
 - Consistent with a less explicit Royal Navy report
- ◆ Naval gunfire attacks against land targets will be the same as those in *DoB*
 - Critical hit model focuses on a land structure's ability to function
 - Greatly simplifies interactions with coastal defenses

COMPANY TRUOS

Damage

- \bullet Initial changes to FG&DN damage model made in 2011 & 2012
 - Damage control model dependent on the stress to the ship's DC cadre
 - Varies with ship size
 - New ship damage point model put in place in 2012
 - 2012 Standard damage point listing for all ships in AT series posted on the Wargame Vault at no cost
- Weapon damage effects consistent with the energy-based model (2006)
 - See Weapons Effects and Warship Vulnerability presentation on ATG website
- Flooding critical hit level now depends on the cause
 - Shells and bombs tend to cause lower levels of flooding that take longer to develop, torpedoes and mines flood whole compartments instantaneously
 - Torpedoes and mines cause D6+4% flooding
 - Shells, bombs, and subsequent flooding critical hits are D6+1%



Damage

- ◆ Torpedo protection system modified to fail more realistically
 - Current system is pretty much a binary result
 - Modification is subtle but will allow the torpedo protection bulges to fail more gracefully
- Shift to a three state approach
 - TPS system absorbs all of a torpedo's/mine's damage, there is no automatic flooding critical hit (D6+4%)
 - TPS system absorbs 50% of the damage, the automatic flooding critical die roll is halved
 - TPS system absorbs <50% of the damage, the automatic flooding critical inflicts the full amount of the die roll

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Conclusions

- \bullet It's been a long time coming, but the FG&DN overhaul is just about completed
 - The Harmonization Process started over a decade ago 2004
 - Weapon damage model revision completed 2006
 - Command at Sea 4th edition was the first product 2008
 - Revised Damage Point model completed 2012
 - Visual detection and gunnery changes from *Dawn of the Battleship* 2016
- Incorporation of these collective modifications will make FG&DN a more realistic and playable game
- ◆ The players, however, are the ones who grade our work; so pick up this new edition, play it, and give us your feedback