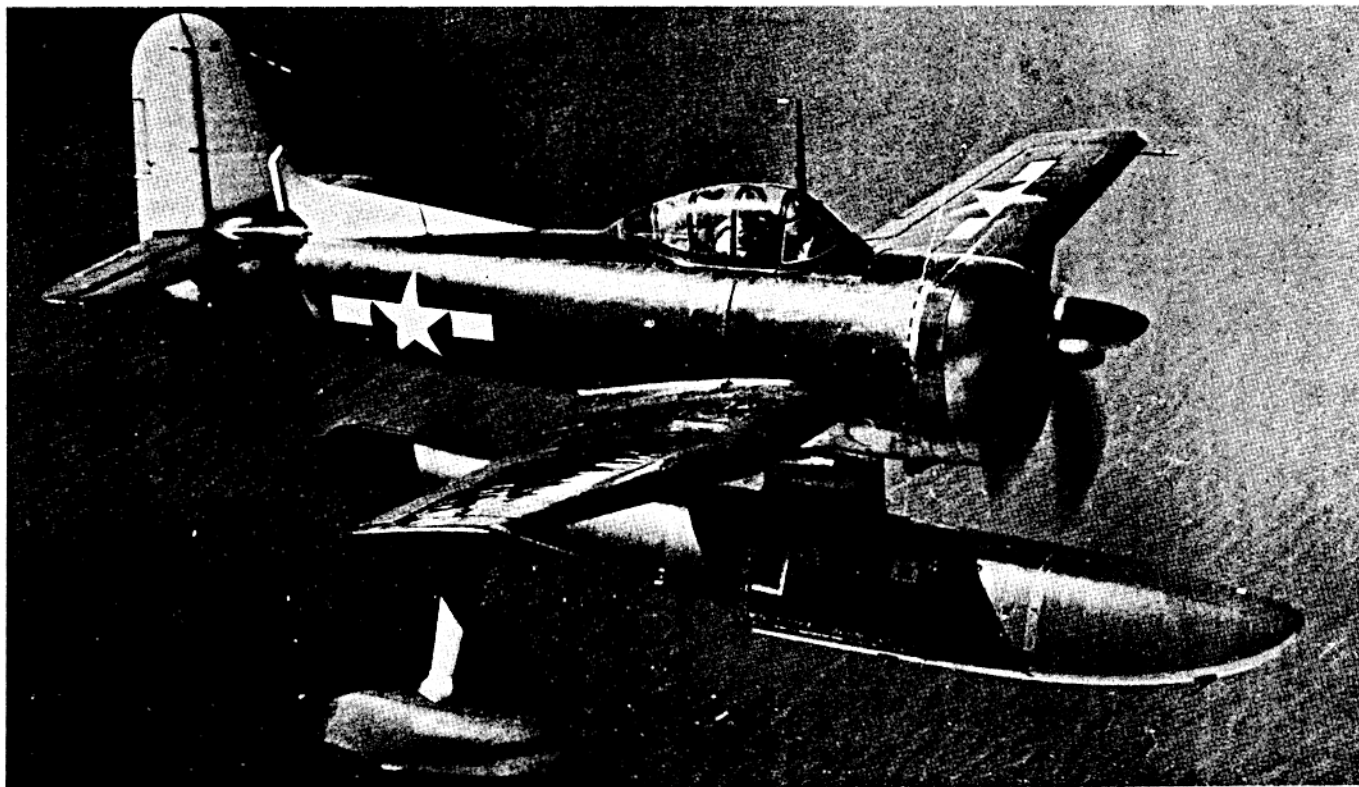
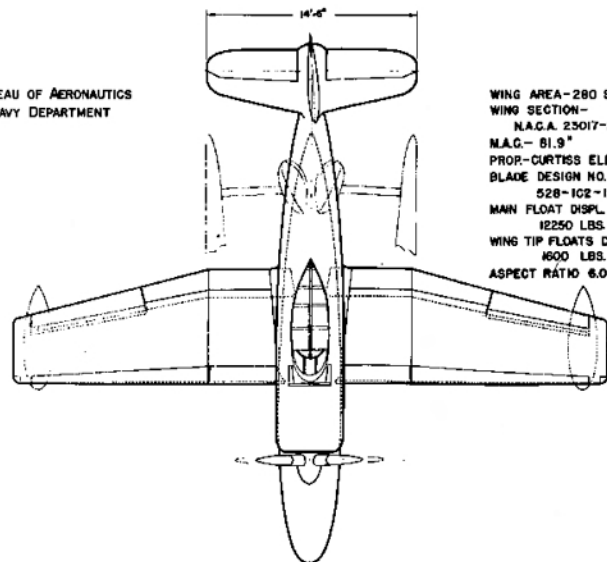
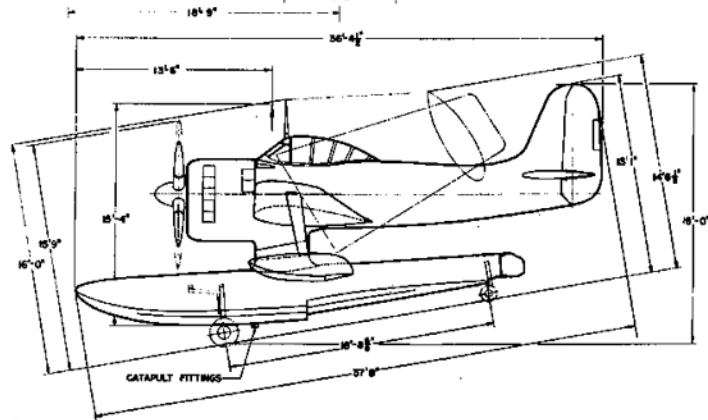
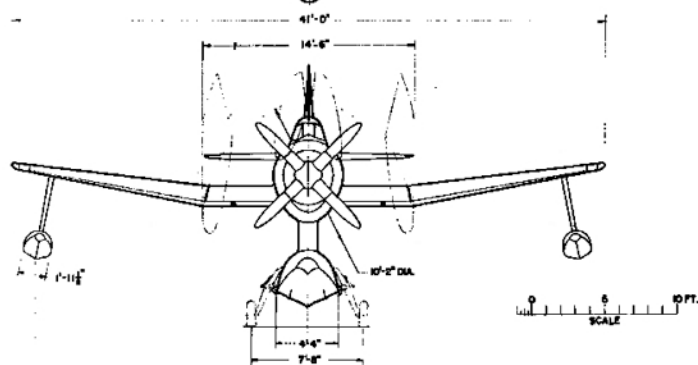




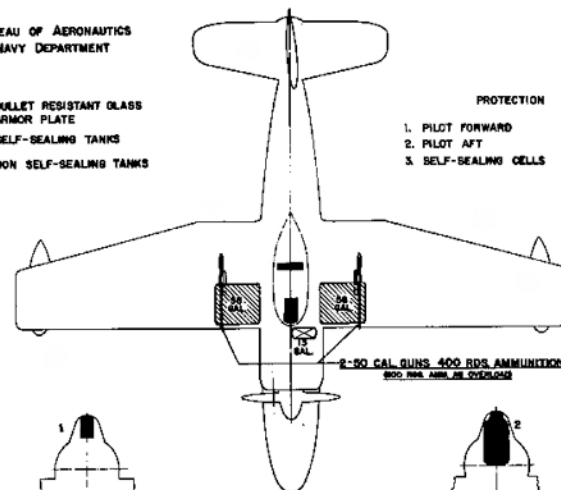
STANDARD AIRCRAFT CHARACTERISTICS
SC-1 "SEAHAWK"

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA-280 SQ.FT.
WING SECTION-
N.A.G. 23017-23010
N.A.G.- 81.9"
PROP.-CURTISS ELECT.
BLADE DESIGN NO.
528-102-12
MAIN FLOAT DISPL.
12250 LBS.
WING TIP FLOATS DISPL.
4600 LBS. (TOTAL)
ASPECT RATIO 6.0

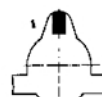


DESCRIPTIVE ARRANGEMENT

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

PROTECTION

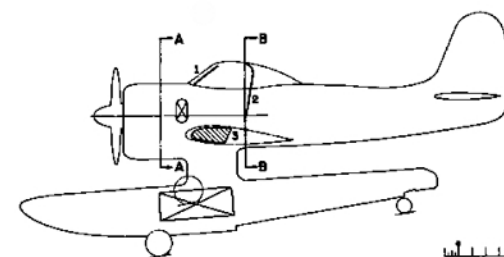
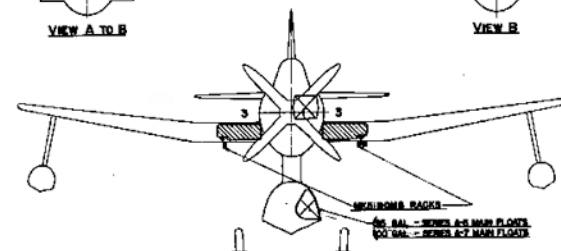
- | | |
|-----------------------|-----------|
| 1. PILOT FORWARD | 335 LBS |
| 2. PILOT AFT | 110.1 LBS |
| 3. SELF-SEALING CELLS | 142 .. |



VIEW A TO B



VIEW B



ARMAMENT & TANKS

MISSION AND DESCRIPTION

Battleship - Cruiser based Scout and rescue airplane.

The SC-1 is a single float seaplane designed for catapulting from battleships and cruisers. It is a rugged seaplane, designed especially for rough water operations. It is equipped with wing slats to reduce landing speeds and the wings fold to permit stowage below deck.

WEIGHTS

Loadings	Lbs.	L.F.
EMPTY.....	6556.....	
BASIC.....	6924.....	
DESIGN.....	7352.....	6.0
MAX. T.O.		
Sea.....	8750.....	5.0
Land.....	9200.....	4.8
Catapult.....	9200.....	4.8
(sea)		
MAX. LAND.		
Sea.....	8750.....	
Land.....	8450.....	
All weights are actual.		

FUEL AND OIL

Gal.	No. Tanks	Location
116	2	wing(protect)
100	1	float (drop)

FUEL GRADE.....100/130
FUEL SPEC.....AN-F-48

OIL

CAPACITY (gal.).....13
SPEC.....AN-O-8
GRADE.....1120

ELECTRONICS

MHF LIAISON.....AN/ARC-5
10 CHAN. VHF CD.....AN/ARC-1
HOMING.....AN/ARR-2
IFF.....AN/APX-2
SEARCH.....AN/APS-4

POWER PLANT

NO. & MODEL.....(1) B-1820-62
MFG.....W.A.C.
SUPERCH.....1 Stage, 1 Speed
PROP. GEAR RATIO.....3:2
PROP. MFG.....Curtiss
PROP. DES. NO.....528-1C2-12
NO. BL/DIA.....4/10'-2"

RATINGS

	BHP	RPM	ALT.
T.O.	1300	2600	SL
MTL.	1300	2600	4000'
NORMAL	1200	2600	5000'

SEE NOTE

SPEC NO. N-805-B

ORDNANCEGUNS

No.	Size	Location	Rds.
2	.50 cal	wing	400

BOMBS

Type	Size	Location	No.
Bomb	250#	wing	2
D. B.	325#	wing	2

SIGHT

MK. 8 Illuminated sight

2 MK. 51 Bomb Racks

DIMENSIONS

SPAN.....41'-0"
LENGTH.....36'-5"
HEIGHT.....16'-0"
WING AREA.....280 sq. ft.
M.A.C.....81.9"

Note: Height is for airplane on beaching gear.



PERFORMANCE SUMMARY

LOADING CONDITION	(1) Scout (Rescue)			
TAKE-OFF WEIGHT	lbs	8691		
Fuel	lbs	1266		
Bombs	lbs			
	lbs			
Wing/Power Loading (A) lbs/sq.ft. lbs/	bhp	30.8/7.2		
Stall Speed--Power off	kn	67.3		
Stall Speed--Power off - No. Fuel	kn	62.2		
Stall Speed--Power on	kn	64.2		
Maximum Speed/Alt (B)	kn/ft	200/4100		
Take-off Distance, deck -- calm	ft			
Take-off Distance, deck	kn. ft			
Take-off Time	Sec.	16		
Rate of climb -- sea level (B)	ft/min	2090		
Service Ceiling	(B) ft	20500		
Time-to-climb 10000 ft. (B)	min	5.7		
Time-to-climb 20000 ft. (B)	min	24.3		
Combat Range/V av 1500 ft. n.mi/kn		560/113		
Combat Radius/V av 1500 ft. n.mi/kn		225/113		
LOADING CONDITION	(2) Combat			
GROSS WEIGHT	lbs	8121		
Engine power		Military		
Fuel	lbs	696		
Bombs/Tanks				
Max. speed at sea level	kn	199		
Max. speed 2200 ft.	kn	204		
Combat speed/Alt.	kn/ft	202/1500		
Rate of climb SL	ft/min	2550		
Ceiling for 500 fpm R/C	ft	18600		
Time-to-climb/Alt.	min/ft	17.5/20000		

NOTES

(A) HMF at Maximum Critical Altitude

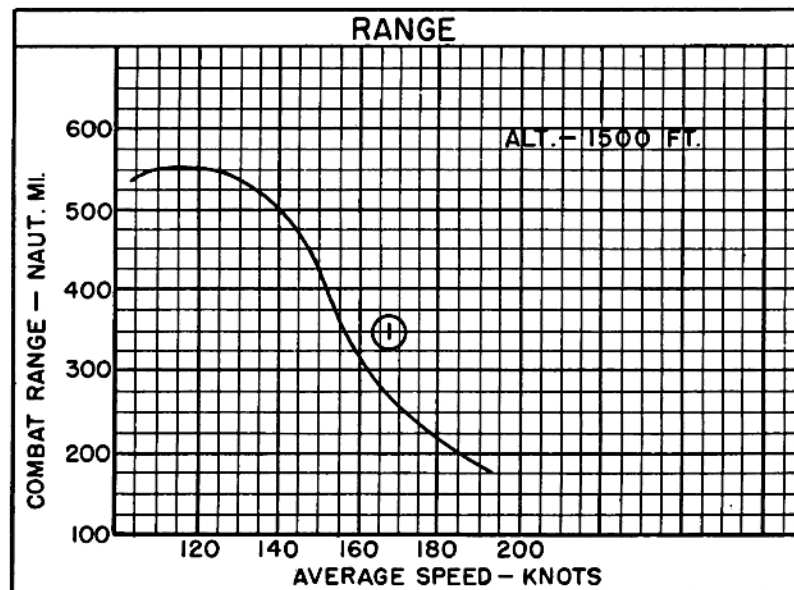
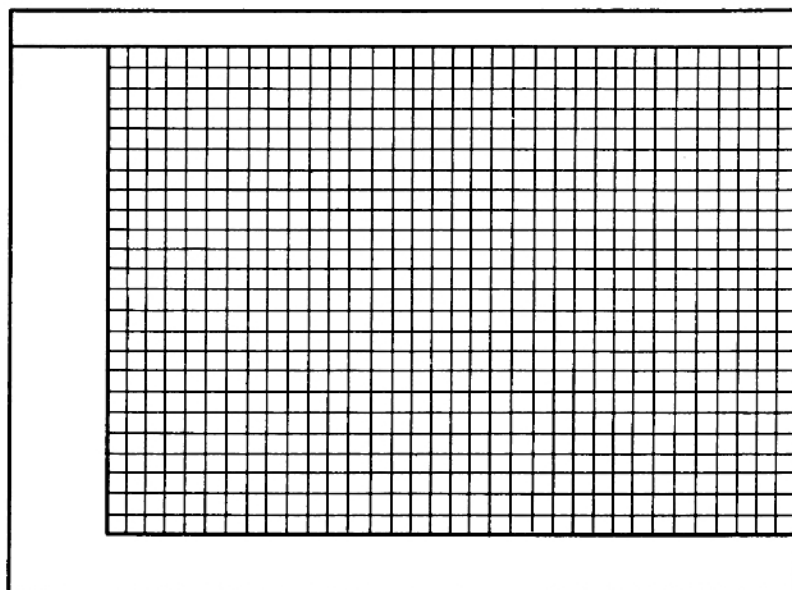
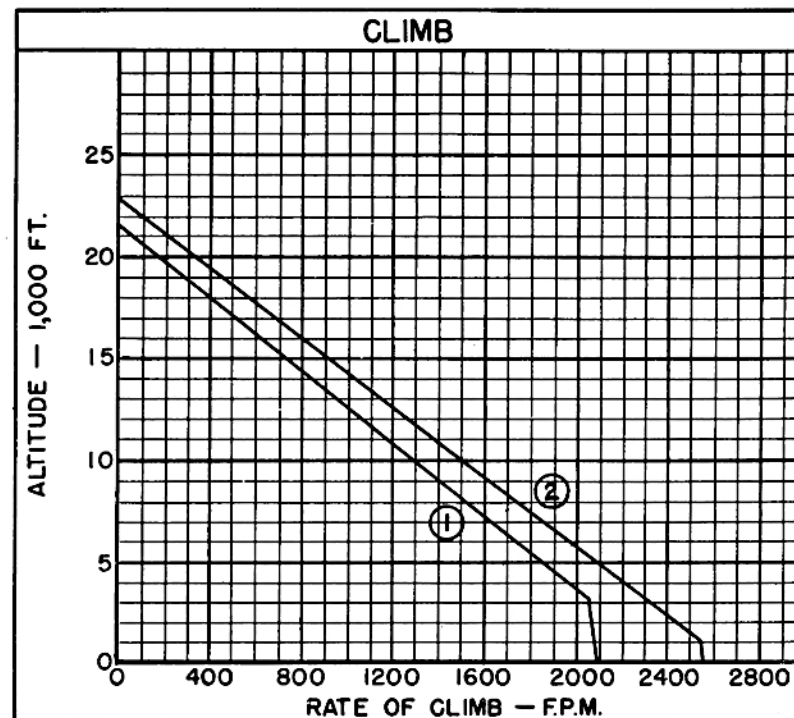
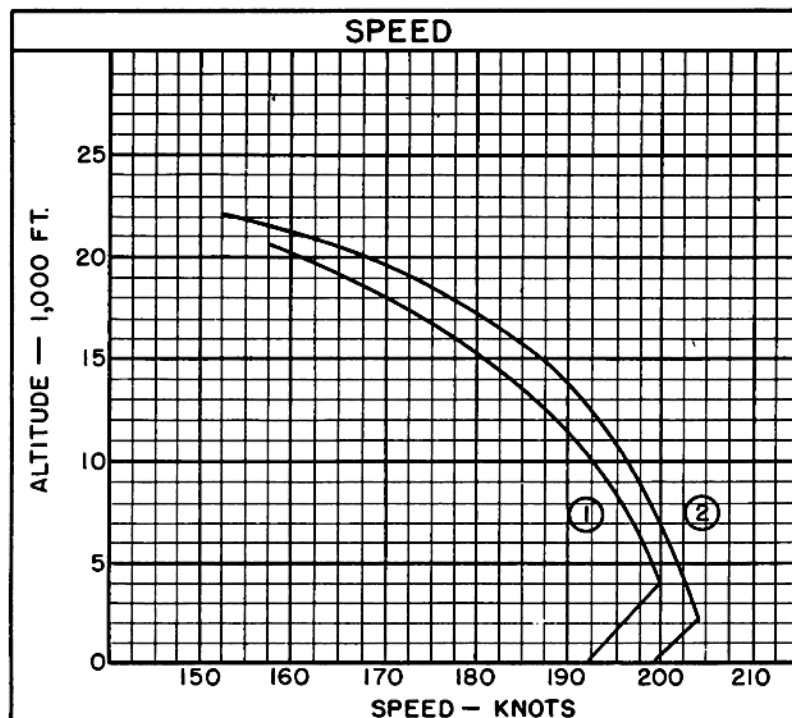
(B) Normal HMF

Performance is based on flight test of the SC-1 airplane. Range and radius are based on flight test fuel consumption data of the SC-1 airplane increased by 5%.

AN/APS-4 droppable radar carried on right wing bomb-rack.

Two wing bomb-racks aboard in all conditions. Sway bracing installed only when external stores are carried.

NOTES CONTINUED ON LAST PAGE



LOADING CONDITION COLUMN NUMBER

NOTES

Air-SEA Rescue provisions (ladder and 1 man bunk inside fuselage aft of pilot) carried in all conditions.

Revised float with 95 gal. CO₂ purged tank in lieu of bomb-bay is incorporated.

Combat radius is .4 of maximum combat range at 1500 ft.

Engine ratings from Flight Test:

	<u>Bhp.</u>	<u>Rpm.</u>	<u>Alt.</u>
T.O.	1300	2600	
Mil.	1300	2600	1100
Norm.	1200	2500	3000