

Ship Reference Sheet							1. Ship Name						
2. Class Name		3. Ship Type	4. Size Class	5. Signature		6. Countermeasures		7. Propulsion		8. Crew	9. Total Mounts		
Radars	Large	Medium	Range (nm)		VSmall	Stealthy	Annex J	Damage and Speed Breakdown					
Name			Small			Function	Percent Damage	0%	25%	50%	75%	90%	100%
							Damage Points	0					
							Surface Speed					0	Sinks
							Submerged Speed					0	Sinks
							Acceleration (kts)		Deceleration	Advance	Spd	Advance	Spd
							from 0-50%	from 51-100%	fm any speed	w/Std Rudder	Loss	w/Hard Rudder	Loss
							Armor						
Sonars	Mode	Type	Range (nm)		50%	25%	Annex M	Embarked Aircraft					
Name			75%			Freq							
							Other Sensors						
Guns	Name	Air Rng	Air Ph	Air Rng	Air Ph	Max	Surf Rng	Surf Ph	Surf Rng	Surf Ph	Surf Dmg	FC	FC
Arc(bb)Mts		Close	Close	Far	Far	alt	Close	Close	Far	Far	Near/Far	Modes	Radar
Surface-to-Surface Missiles	Name	Guidance	Genera-	Min	Surf	Speed	Dist/	Flight	Signature	Rds/	ROF	Damage	Annex D
Arc(bb)Mts			tion	Range	Range	kts	Phase	Profile		Mount	(rds/min)		
Surface-to-Air Missiles	Name	Guidance	Genera-	Min	Speed	Dist/	Air	ATA	Max	Min	Signature	FC	Annex D
Arc(bb)Mts			tion	Range	kts	Phase	Range	Rating	altitude	Altitude		Radar	
Antisubmarine Warfare Weapons	Name	Type	Range	Min Rng	Hit	Speed	Dist/	Dam Pts/	Remarks	Annex E			
Arc(bb)Mts			(nm)	(nm)	Chance	(kts)	Phase	Payload					
Torpedoes	Name	Guidance	Genera-	Range	Speed	Dist/	Damage	Damage	Propulsion	Remarks	Annex F		
Arc(bb)Mts			tion	(nm)	(kts)	Turn	vs. Surf	vs. Sub					
Notes and Remarks													

Ship Reference Sheet					1. Ship Name				Size Class: <input type="text"/>							
2. Class Name	3. Ship Type	4. Displacement	5. Speed	6. Propulsion	7. Crew	8. Total Mounts	9. Aircraft									
Cargo Load		Hold #4			Damage Point Effects											
Hold #1					Percent Damage											
					0%		25%		50%		75%		90%		100%	
Hold #2		Hold #5			Damage Points											
Hold #3		Hold #6			Surface Speed											
Notes and Remarks																

HARPOON FORM 1s 9 October 1996

This form is provided by the publisher for use with *Harpoon*. It may be photocopied for play purposes.

Ship Reference Sheet					1. Ship Name				Size Class: <input type="text"/>							
2. Class Name	3. Ship Type	4. Displacement	5. Speed	6. Propulsion	7. Crew	8. Total Mounts	9. Aircraft									
Cargo Load		Hold #4			Damage Point Effects											
Hold #1					Percent Damage											
					0%		25%		50%		75%		90%		100%	
Hold #2		Hold #5			Damage Points											
Hold #3		Hold #6			Surface Speed											
Guns		Air Rng	Air Ph	Air Rng	Air Ph	Max	Surf Rng	Surf Ph	Surf Rng	Surf Ph	Surf Dmg	FC				
Arc(bb)Mts	Name	Close	Close	Far	Far	alt	Close	Close	Far	Far	Near/Far	Modes				
Surface-to-Air Missiles		Genera-		Min	Speed	Dist/	Air	ATA	Max	Min	Annex D					
Arc(bb)Mts	Name	Guidance	ation	Range	kts	Phase	Range	Rating	altitude	Altitude	Signature					
Notes and Remarks																

HARPOON FORM 1s 9 October 1996

This form is provided by the publisher for use with *Harpoon*. It may be photocopied for play purposes.

Ship Reference Sheet					1. Ship Name				Size Class: <input type="text"/>							
2. Class Name	3. Ship Type	4. Displacement	5. Speed	6. Propulsion	7. Crew	8. Total Mounts	9. Aircraft									
Cargo Load		Hold #4			Damage Point Effects											
Hold #1					Percent Damage											
					0%		25%		50%		75%		90%		100%	
Hold #2		Hold #5			Damage Points											
Hold #3		Hold #6			Surface Speed											
Notes and Remarks																

HARPOON FORM 1s 9 October 1996

This form is provided by the publisher for use with *Command at Sea*. It may be photocopied for play purposes.

Air Data Card						1. Aircraft Type	2. Mission	3. Cannon	4. Cannon ATA	5. Defensive ATA Light (Full) Load ()	
6. Cruise Range (nm)	7. Internal Fuel (kg)	8. Ceiling (m)	9 Payload (kg)	10. Inflight Refuel?	12. Size	12. Signature	13. Platform Type				
14. Countermeasures	15. Engine Type										
Radars						SPEEDS					
<i>Name</i>	<i>Range Large</i>	<i>Range Medium</i>	<i>Range Small</i>	<i>Range VSmall</i>	<i>Range Stealthy</i>	<i>Annex L Function</i>	<i>Throttle Setting in knots (nm per phase)</i>				
							<i>Altitude</i>	<i>Cruise</i>	<i>Full Mil</i>	<i>Afterburner</i>	<i>Mach 1.0</i>
							<i>V/Low:</i>	()	()	()	660 (2.8)
							<i>Medium:</i>	()	()	()	649 (2.7)
							<i>High:</i>	()	()	()	573 (2.4)
							<i>VHigh:</i>	()	()	()	573 (2.4)
Sonars						Other Sensors			Annex B, Rules Booklet		
<i>Name</i>	<i>Mode</i>	<i>Type</i>	<i>Range (nm)</i>			<i>Annex M Freq</i>	<i>Name/Type</i>			<i>Performance</i>	
			75%	50%	25%						
Ordnance Loadout											
<i>Name</i>	<i>Type</i>	<i>Number Carried</i>	<i>Guidance</i>	<i>Min Range</i>	<i>Max Range</i>	<i>ATA or % Hit</i>	<i>Damage Pts. Ship/Sub</i>	<i>Speed in knots (nm per phase)</i>	<i>Remarks</i>	Annex E, F, G, H	
							/	()			
							/	()			
							/	()			
							/	()			
Remarks											

Air Data Card						1. Aircraft Type	2. Mission	3. Cannon	4. Cannon ATA	5. Defensive ATA Light (Full) Load ()	
6. Cruise Range (nm)	7. Internal Fuel (kg)	8. Ceiling (m)	9 Payload (kg)	10. Inflight Refuel?	12. Size	12. Signature	13. Platform Type				
14. Countermeasures	15. Engine Type										
Radars						SPEEDS					
<i>Name</i>	<i>Range Large</i>	<i>Range Medium</i>	<i>Range Small</i>	<i>Range VSmall</i>	<i>Range Stealthy</i>	<i>Annex L Function</i>	<i>Throttle Setting in knots (nm per phase)</i>				
							<i>Altitude</i>	<i>Cruise</i>	<i>Full Mil</i>	<i>Afterburner</i>	<i>Mach 1.0</i>
							<i>V/Low:</i>	()	()	()	660 (2.8)
							<i>Medium:</i>	()	()	()	649 (2.7)
							<i>High:</i>	()	()	()	573 (2.4)
							<i>VHigh:</i>	()	()	()	573 (2.4)
Sonars						Other Sensors			Annex B, Rules Booklet		
<i>Name</i>	<i>Mode</i>	<i>Type</i>	<i>Range (nm)</i>			<i>Annex M Freq</i>	<i>Name/Type</i>			<i>Performance</i>	
			75%	50%	25%						
Ordnance Loadout											
<i>Name</i>	<i>Type</i>	<i>Number Carried</i>	<i>Guidance</i>	<i>Min Range</i>	<i>Max Range</i>	<i>ATA or % Hit</i>	<i>Damage Pts. Ship/Sub</i>	<i>Speed in knots (nm per phase)</i>	<i>Remarks</i>	Annex E, F, G, H	
							/	()			
							/	()			
							/	()			
							/	()			
Remarks											

AIRCRAFT MISSION PLANNING FORM			1. Aircraft Name/Designation		
2. Engine Type (circle one) Piston / TJ / TF / TP / TS	3. Max Payload (kg)	Speeds:	Cruise	Full Mil Power	Afterburner
4. Basic Range (nm)	5. Mission Type	V/Low			
6. Ordnance Loadout Description		Med			
		High			
7. Loadout Weight (kg)	Clean / Load1 / Load2	VHigh			

Status Payload Carried
 Clean: 0 - 15%
 Load1: 16 - 61%
 Load2: 61 - 100%
 (do not count drop tanks as part of
 load for endurance purposes)

Outbound Altitude: _____
 Return Altitude: _____

ENDURANCE MODIFIERS

	Cruise	FMP	Afterburner
Turbojet	1.0	3.5	12
Turbofan	1.0	4.0	24
Turboprop	1.0	1.5	--
Turboshaft	1.0	1.5	--
Piston	1.0	1.5	--

MISSION SUMMARY
 Distance to target: _____ nm
 Range required: _____ nm
 Combat Margin: _____ nm
 Mission Range: _____ nm
 Final Aircraft Rng: _____ nm
 Reserve: _____ nm
 Loiter Time: _____ min

Customary reserve is
15% of Mission Range

Decide on ordnance load to be carried,
total individual weapon weights, double
check against maximum payload

Use Annex B or Harpoon
Form 20 to find out what
ordnance loads are
permitted

Compute percentage of max payload
carried, not counting drop tanks in
percentage

Mission Range = Outbound Leg _____ nm * Load/Alt reduction _____
 + Return Leg _____ nm * Load/Alt reduction _____ = _____ nm

Combat Margin = _____ min/60 * Cruise Spd _____ kts * FMP
 or Afterburner Endurance Modifier _____ = _____ nm

Add Combat Margin _____ nm to Mission Range
 _____ nm = new Mission Range _____ nm

Is Basic Range more
than Mission Range?

No
Add _____ drop tanks * _____ nm
per drop tank = _____ nm added

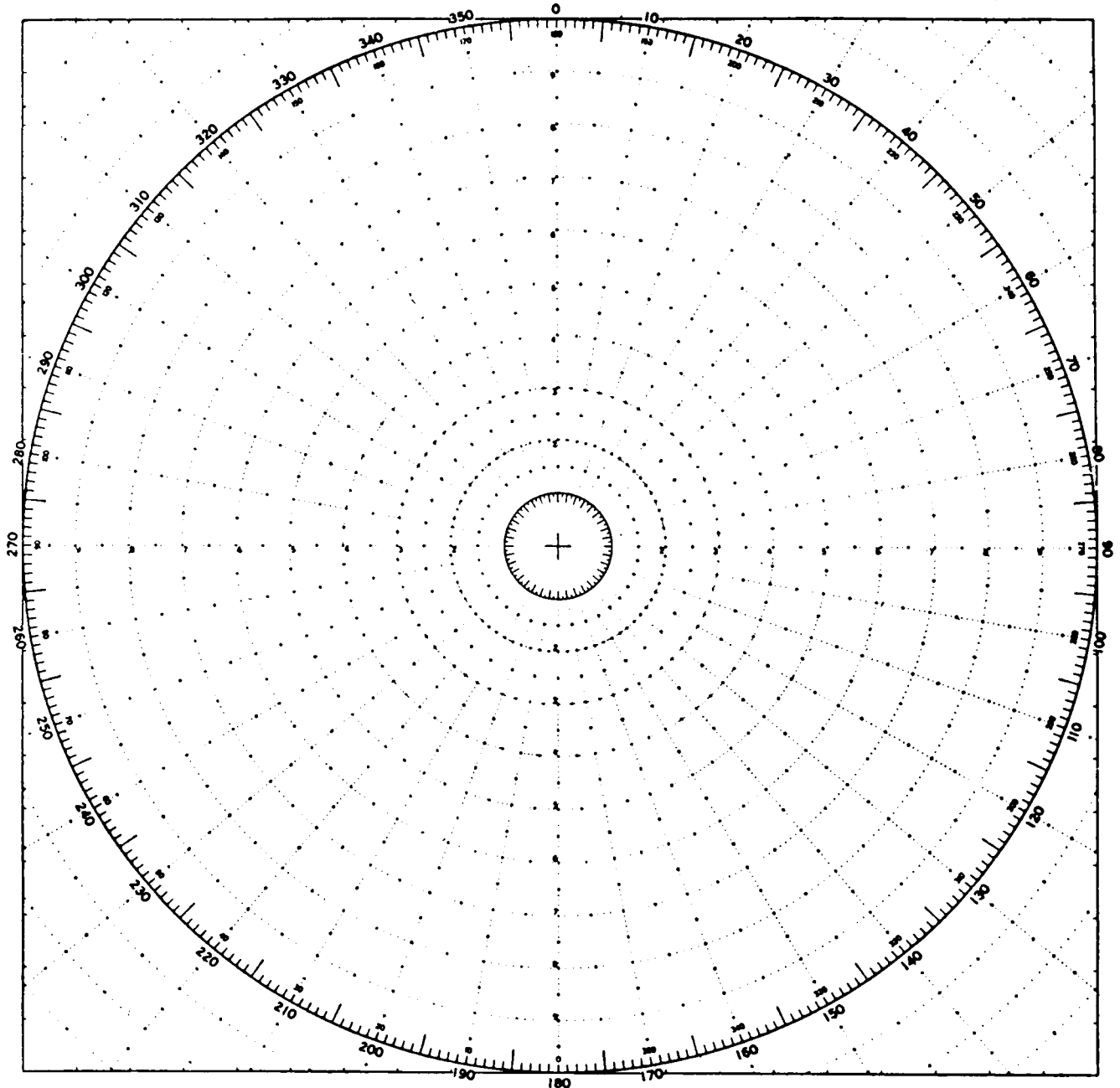
Yes
Total aircraft range = Basic Range
_____ nm + added drop tank range
_____ nm = _____ nm

Yes
Is Aircraft Range more
than Mission Range?

No
Change loadout, add drop
tanks, change Combat
Margin, or abort mission

Reserve = Aircraft Range
_____ nm - Mission Range
_____ nm = _____ nm

Formation Plotting Board



Formation Name: _____

Flagship: _____

Top of Chart is:



True
North



PIM



Threat
Axis

Guide: _____

Scale: _____

Prepared By: _____

Date: _____

Notes: _____