

Worksheet 1: Maritime Planning									
INCIDENT									
Search Target (description) :			asdfasdfa						
LKP (lat/long) :			6'55'25 LS , 106'58'53 BT						
@Time (UTC)			201108240614G						
Hours of Drift (a)			10.0						
SEA CURRENT									
Sea / tidal current/knots			2.0 (T)			4.0 knots			
Sea Current vector/distance:			2.0 (T)		4.0 knots		10.0 (a)hrs =		40.0 nm
SURFACE WIND and CALCULATION OF WIND CURRENT									
Surface winds/knots			3.0 (T)		5.0 knots		Wind Current Divergence = Reciprocal Surface Wind - 30 for LKP greater than 10 South Latitude		
Reciprocal of Surface Winds/Knots (b)			3.0 (T)		5.0 knots		- 30 T =		3.0(T) 5.0 knots
Wind current vector: (use reciprocal bearing and divergence (Figure I-1)			10.0 (a)hours x		0.178 knots (Figure I-1) =		3.0 (T)		1.78 nm
TARGET LEEWAY									
Leeway Angles (divergence) (Table I.1 or I.2)			Reciprocal Surface Wind (b)			3.0(T)		± 31.0 (T)	
Leeway vector: (LW)			L W (L)			332.0 (T)		L W (R) 34.0(T)	
Leeway speed: (knots) = (Multiplier x Wind Speed) ± Modifier (Table I.1 or I.2)			[0.013 Multiplier x 5.0 Wind Speed = 0.065] ± 0.27 Modifier = 0.335						
Leeway distance:			Leeway speed		0.335 x(a) 10.0 hrs		3.35 nm		
DRIFT ERROR									
Distance (L)			44.71685 nm		Distance (R)			44.66295 nm	
de (L):(12.5 to 33% of Distance L)			5.58960625 nm		de (R):(12.5 to 33% of Distance R)			5.58286875 nm	
Distance Left/Right =		3.4507551 nm	De = $\frac{[de (L) + de (R) + Distance L/R]}{2}$				De = 7.311615		
FIX									
Distress craft error (x): (Table J.1, J.2 or J.3)					0.1 nm				
Search craft error (y): (Table J.1, J.2 or J.3)					0.1 nm				
TOTAL ERROR (E)									
Total probable error (E): $E=\sqrt{(De^2 + x^2 + y^2)}$					E 7.3129826				
SEARCH AREA									
Safety factor (circle) (fs)			1.1						
Search radius (E x fs)			8.04428086nm						
Search radius rounded up to whole figure:			9.0 nm						
Sea Current vector/distance:			324.0 nm²						