JOINT INTELLIGENCE PREPARATION OF THE OPERATIONAL ENVIRONMENT (JIPOE)

defence intelligence staff division

STEP 1 & 2

LT KOL MOHAMAD HEIKAL BIN MOHAMAD HAIRI

TRAINING DIRECTORATE
DISD

INTRODUCTION



Defence Intelligence Staff Division

WHAT IS JIPOE?

DEFINITION:

The analytical process used by joint int organisation to produce int assessment, estimate and other int product in support of the JFC decision making process

(MAFJP 5-01.1 JMAP)

INTRODUCTION





Defence Intelligence Staff Division

Cont:

- Is a component of joint op planning and provides specific inputs to the JMAP
- Its Continuous, Systematic and Dynamic Process for Analysing the Environment and Threat
- Purpose Maintain Commander's/ Staff's situational awareness
- Assist the commander and staff to identify the threat's COG, PIR and tasks for the Int Collection Plan

INTRODUCTION





Defence Intelligence Staff Division

WHAT IS DIFFERENT BETWEEN JIPOE AND IPB?

joint doctrine characterizes the IPB as requiring "micro-analysis ... to support component command operations," while saying that "JIPOE and IPB analyses support each other while avoiding a duplication of analytic effort

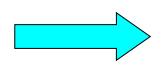
INTELLIGENCE CYCLE







MISSION oriented int cycle



JIPOE Products

- □JIPOE Products:
 - Graphic Overlays
 - Matrices
- □ No specific format:
 - Dependent on the commander and size of op
 - Capabilities of the J2 Staff
 - **❖** JFHQ SOP
- ☐ Level of detail determine by:
 - Planning time and resources aval
 - Size of JFHQ
 - Info sources
 - Analysis and production tool

1a. Review the Situation
1b. Scope the Threats
1c. Identify Significant Operational Environment Characteristics
1d. Identify Areas of Intelligence Interest and Responsibility
1e. Identify CCIR

2a. Analyse Physical Characteristics of the Operational Environment

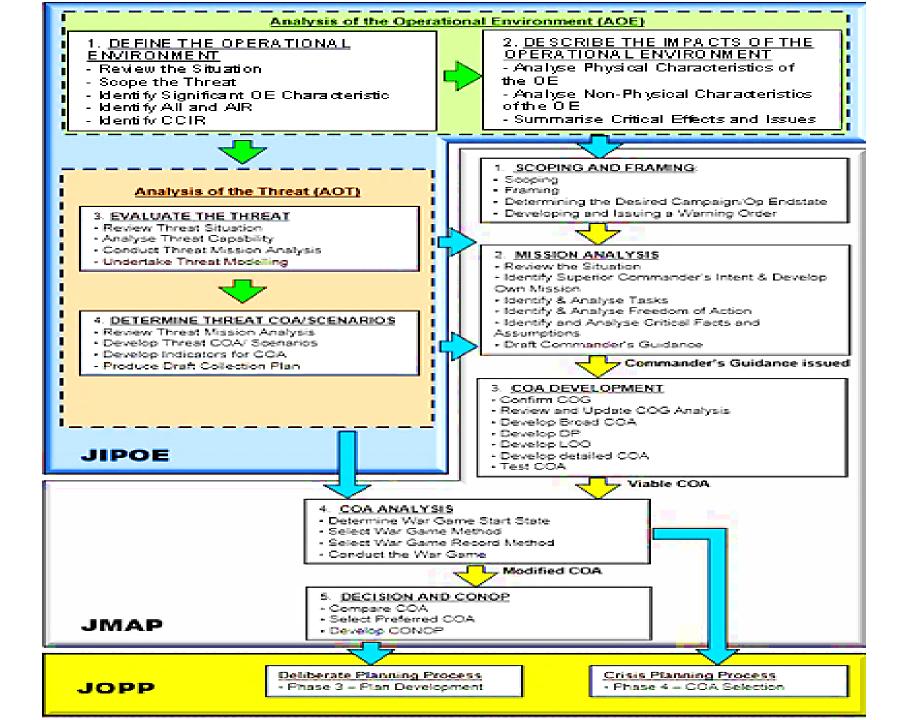
2b. Analyse Non-Physical Characteristics of the Operational Environment

2c. Summarise Critical Effects and Issues

4 -			
		JIPOE	
	1	Define Operational Environment	
	2	Describe the Impact of OE	
	3	Evaluate Threat	
	4	Determine Threat COA/	
		Scenario's	
		3a Poviow Throat Situa	ation

- **4a. Review Threat Mission Analysis**
- 4b. Develop Threat COA/Scenario
- 4c. Develop Indicators for COA
- 4d. Produce Draft Collection Plan

- 3a. Review Threat Situation
- 3b. Analyse Threat Capability
- **3c. Conduct Threat Mission Analysis**
- 3d. Undertake Threat Modelling





LANUNLAND CLAIMED KASUMA ISLAND BELONG TO HER AND DECLARED TO USE MILITARY APPROACH TO OCCUPY KASUMA ISLAND

1a. Review the Situation
1b. Scope the Threats
1c. Identify Significant Operational Environment Characteristics
1d. Identify Areas of Intelligence Interest and Responsibility
1e. Identify CCIR

JIPOE					
1	Define Operational Environment				
2	Describe the Impact of OE				
3	Evaluate Threat				
4	Determine Threat COA/				
	Scenario's				

S1 - Define Operational Environment



Defence Intelligence Staff Division



Sub Step 1 Review The Situation



Sub Step 2 Scope the Threats



Sub Step 3

Identify Significant OE Characteristics



Sub Step 4

 Identify Areas of Intelligence **Interest and Responsibility**



Sub Step 5

- Identify CCIR

- **Define Operational Environment**
- **Describe the Impact of OE**
- **Evaluate Threat**
- **Determine Threat COA/ Scenario's**



A methodically researching all significant characteristic of the OE within the geographical confines of where commander and JOPG members expect the op to be conducted

SS1 - Review The Situation

Defence Intelligence Staff Division

- Quick assessment of the circumstances which created the reqmt for the JIPOE
- ☐ J2 staff will initiate discussion and research to determine:
 - Time aval to dev JIPOE
 - Level of JIPOE (Time constraints and level of detail)
 - Further guidance from the commander or the superior commander
 - Aval of ISR assets
- 1. Define Operational Environment
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

1a. Review the Situation

- 1b. Scope the Threats
- 1c. Identify Significant OE Characteristics
- 1d. Identify Areas of Intelligence

Interest and Responsibility

1e. Identify CCIR

Review The Situation





Quick assessment of the circumstances

- Over decade tension between BLUELAND and LANUNLAND
- LANUNLAND claiming KASUMA Islands as part of their sovereign territory
- Build up military activities for massive mil ops; Harassment over BLUELAND airspace in SoM and SCS
- Both armed forces at highest readiness status (offensive)

Review The Situation





Defence Intelligence Staff Division



15 Oct 18 : Operational readiness

5 Oct 18: JMAP Process

29 Sep 18 : JIPOE Process

250900 H Sep 18 : ID Received

Review The Situation



Aval ISR Assets

All the assets available with ISR capabilities from 3 services for the specific op

	Aerial	Surface
NAVY	2 x Super Lynx 3 x Fennec	1 x NGPV 2 x Frigate 1 x SSK
ARMY	2 x Agusta A109 LOH 1 x Sp Coy (MIB)	1 x Sqn (11 GGK) 1 x Int Coy (MIB)
AIRFORCE	2 x Beechcraft Super King Air B200T MPA 2 x Eurocopter EC 725	1 x Sqn PASKAU

Deduction. ISRs assets may suffice to cover the operations

SS2 - Scope the Threat



- A brief assessment of the operational and environment threat for subsequent research of the environment and determine any limitation on op
- Where an threat can be clearly identified with an intent that will create conflict
- □ Provides an overview of likely threat sources eg HADR – The source of pandemic
- Identify the broad description of the threat

eg LANUN may deploy the Southern Command to engage in the KASUMA Island conflict

- 1. Define Operational Environment
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/Scenario's

1a Review the Situation

1b. Scope the Threats

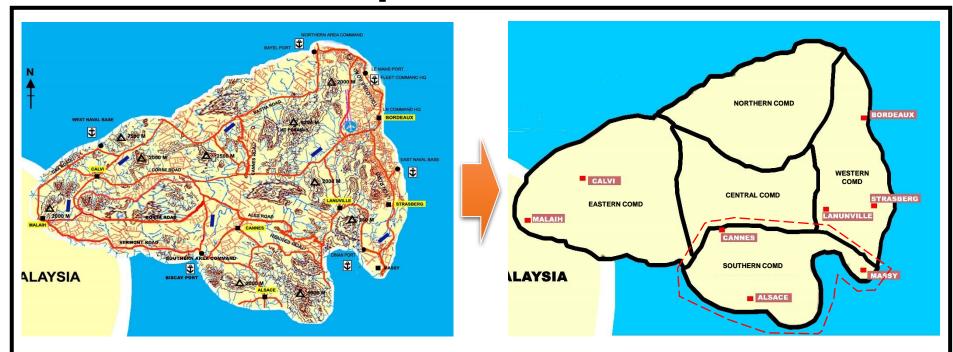
1c. Identify Significant OE Characteristics

1d. Identify Areas of Intelligence

Interest and Responsibility

1e. Identify CCIR

Scope the Threat



7 MILITARY REGIONS (OLD)

5 COMMAND ZONE (NEW)

LAN have tendency to deployed Southern Comd (JTF TIGER) to engage in the conflict.

Consideration factor:

- Geographical Challenges
- Show of force in SCS (Military Built up)
- Concentration of force



Comprehensive research of the physical and non-physical domains which military activity is expected to take place

- 1. Define Operational Environment
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/Scenario's

- 1a. Review the Situation
- 1b. Scope the Threats
- 1c. Identify Significant OE Characteristics
- 1d. Identify Areas of Intelligence
- Interest and Responsibility
- 1e. Identify CCIR

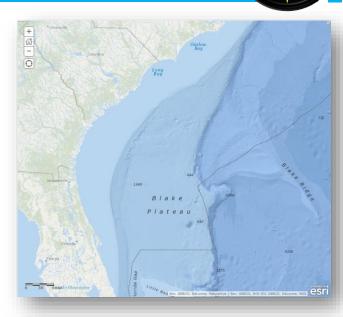




Geospatial

LAND AND ROADS

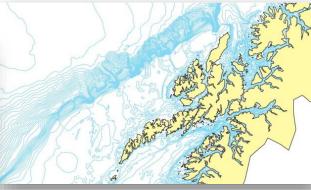
SOILS AND WETLANDS





TOPOGRAPHY AND HYDROGRAPHY













Infrastructure





Line of Communication



HUMAN FACTORS



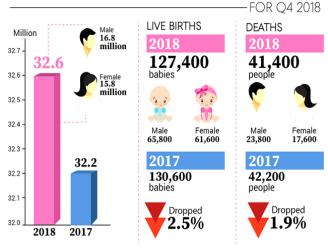


Culture

Government







Health and Environmental Threat

JE ojrus Nipahoro HINI



Defence Intelligence Staff Division

STAKEHOLDERS











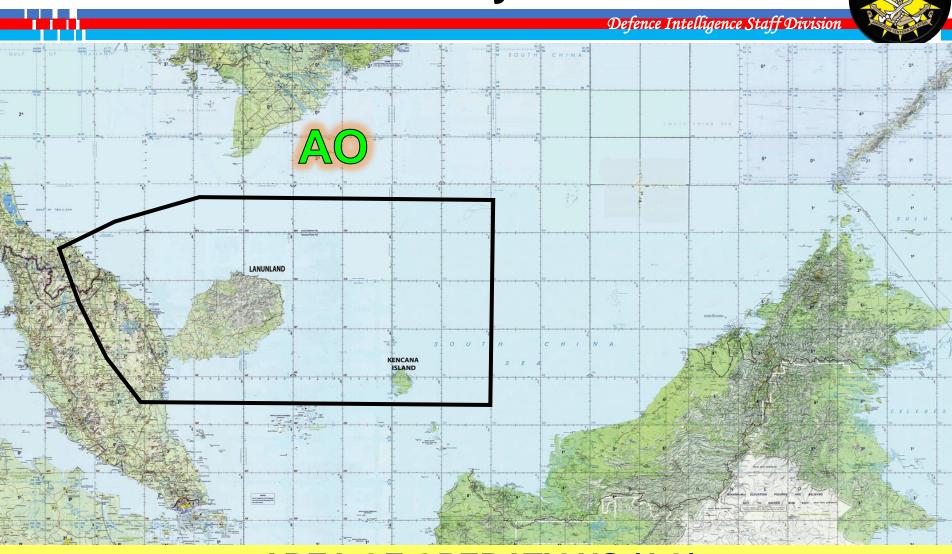






WORLD BANK

SS4 - Identify All & AIR

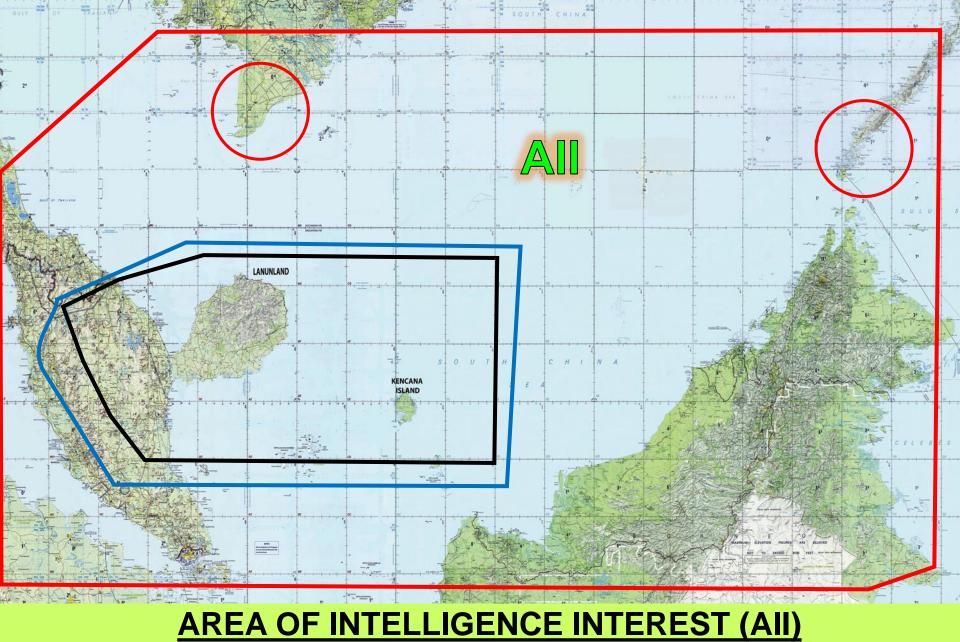


AREA OF OPERATIONS (AO)

... An operational area defined to or by the JFC for land, airspace and maritime forces



AREA OF INTELLIGENCE RESPONSIBILITY (AIR)
Focus of intelligence activities, necessary tasking priority on
ISTAR assets to cover the area



Extend beyond the AIR and include threats from the non-physical domains – Strategic info

SS4 - Identify CCIR



Defence Intelligence Staff Division

- The recommendation of Int Reqmt to the commander
 Commander decides what info is deemed to be critical
 Linked to potential DP and the commander's need for situational awareness
- Minimum number of CCIR to ensure that they are all critical

- 1. Define Operational Environment
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/Scenario's

- 1a. Review the Situation
- 1b. Scope the Threats
- 1c. Identify Significant OE Characteristics
- 1d. Identify Areas of Intelligence
- Interest and Responsibility
- 1e. Identify CCIR

- Priority Intelligence Requirements (PIR)
- Friendly Forces Information Requirements (FFIR)
- Essential Elements of Friendly Information (EEFI)

- 1. Define Operational Environment
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/Scenario's

CCIR: Info reqmt identify by the commander as being critical to facilitating timely decision making



- ☐ The commander utilizes CCIR to estb the priorities for info gathering and reporting
- □ CCIR wording should be in the form of statement, not questions
- ☐ Responsibility to answering CCIR should be assigned to the most appropriate JFHQ branch

CCIR: Info reqmt identify by the comdr as being critical to facilitating timely decision making



Priority Intelligence Requirements (PIR)

- Those IR about the threat, environment and stakeholder for which a commander has an anticipated and stated priority in his task of planning and decision-making
- PIR are approved by the commander, managed by the COS and researched by J2 staff
- Example:
 - Will en use chemical agents on our reserve force before it leaves KASUMA Island?
 - It is the GREENLAND will allow en to use his airbase at JENTAWI?



Friendly Forces Information Requirements (FFIR)

- Info the commander needs about friendly forces in order to develop plans and make effective decisions
- Depending upon the circumstances, info on unit loc, composition, readiness, personnel status and log status
- FFIR are approved by the commander, managed by the COS and researched by the J3 and J5
- Example:
 - > THE UNIT HAS TO CROSS THE RIVER
 - > THE SELECTED COA REQUIRES 6 TAC BRIDGES FOR EXECUTION
 - TAC BRIDGES STATUS A FFIR. (A DROP IN THE OP REQMT RATE BELOW 6 WILL REQUIRE ADJUSTMENTS TO THE PLAN)



Essential Elements of Friendly Information (EEFI)

- How the commander views his unit from the en comdrs perspective
- Info on friendly forces and/or activities the commander deems critical to protect from en collection efforts
- Specific facts about the disposn, capabilities and intentions of own/friendly forces which threat may need to undermine the own/friendly op
- Example:

"THE COUNTER-RECON REPORTS THAT EN RECON HAS PENETRATED THE SY FORCE IN THE SOUTH; THIS WOULD PUT THEM ON A PATH TO IDENTIFY THE TF RESERVE"

THE TF RESERVE LOC AND STR - AN EEFI





- The commander now has to determine what action will prevent the res from being found by the en recon
- He notifies the commander with recommendations
 - Move res?
 - Send out elements to find and destroy recon?
 - Something else?
- EEFI may include:
 - Loc (Units, Res, CPs)
 - Unit strengths
 - Obstacle locations and compositions
- Main objective To prepared OPSEC plan



Defence Intelligence Staff Division

PIR	FFIR	EEFI
LAN labours reactions and military capability in BLUELAND	Availability and readiness of BLUFOR IO	Preparation and deployment to FMB of Abn force
Location of JTF Tiger SSG	Follow on forces / ATG at 7 days NTM	Advance party activity on SCS
LANFOR sustenance capabilities for protracted op	The intensity of POL and ammo for fighter /strike operations	JTF fwd log base
Capability and readiness of LANFOR amph forces	Aircraft availability on D+3 Airborne Op	ISR activity on KASUMA Island
I&W for LANFOR strike and fighter action	AD unit capability to joint TF 3.1 on D+5 specific op	Loc of JTF Reserve

KEY PRODUCTS OF STEP 1



Defence Intelligence Staff Division

- Graphical Overlay (Graphical products which depict where maritime, land and air movement is unrestricted, restricted or severely restricted) <u>example</u>
- Human Factors
- Social and Psychological Matrix/Overlay
- Normalcy Graphic (identify patterns, profiles and deviations from usual activity) <u>example</u>
- Environmental Graphics (may depict historical or forecasted climatic or weather conditions such as temperature, visibility, wind, precipitation, cloud cover and humidity) <u>example</u>

KEY PRODUCTS OF STEP 1

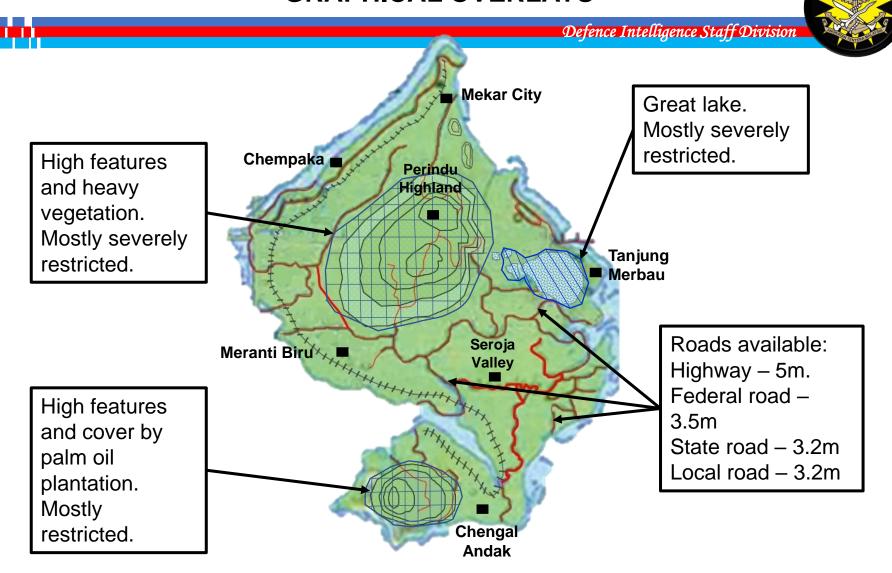
Defence Intelligence Staff Division

➤ Combination Graphics (Key environmental factors that may affect operations may be combined in the one graphic for further illustrative purposes) example

- General Threat Characteristics
- **▶Identification of All, AIR and AO**
- ▶List of CCIR PIR, FFIR and EEFI
- ➤ Step 1 JIPOE brief (includes time constraints, guidance available, ISR assets available and a brief assessment of the threat)
- 1. Define Operational Environment
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/Scenario's

- 1a. Review the Situation
- 1b. Scope the Threats
- 1c. Identify Significant OE Characteristics
- 1d. Identify Areas of Intelligence Interest and Responsibility

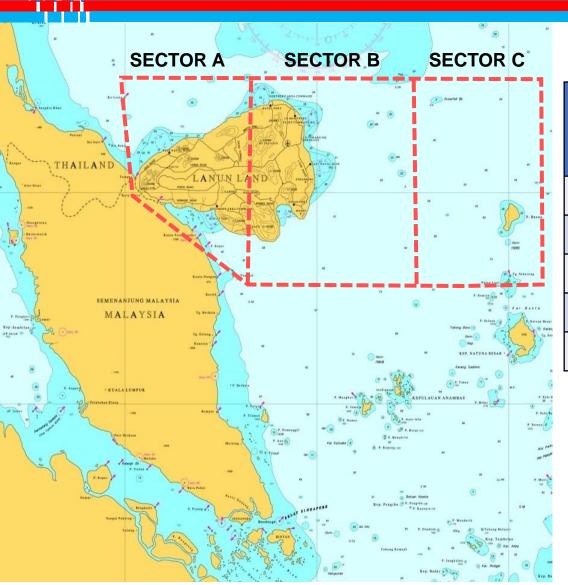
GRAPHICAL OVERLAYS



Sample 2-18

NORMALCY GRAPHICS





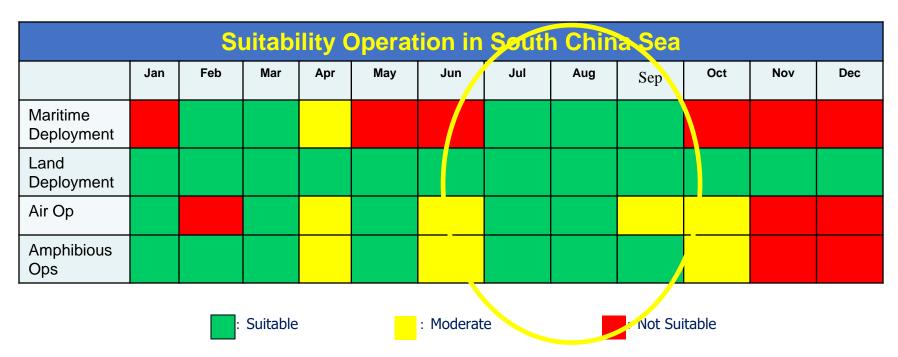
DATE	SECTOR				
	SECTOR A	SECTOR B	SECTOR C		
APR	110	120	100		
MAY	110	110	120		
JUN	100	100	130		
JUL	100	98	135		
AUG	95	90	120		

No of Sortie Flown

ENVIRONMENTAL GRAPHIC



Defence Intelligence Staff Division

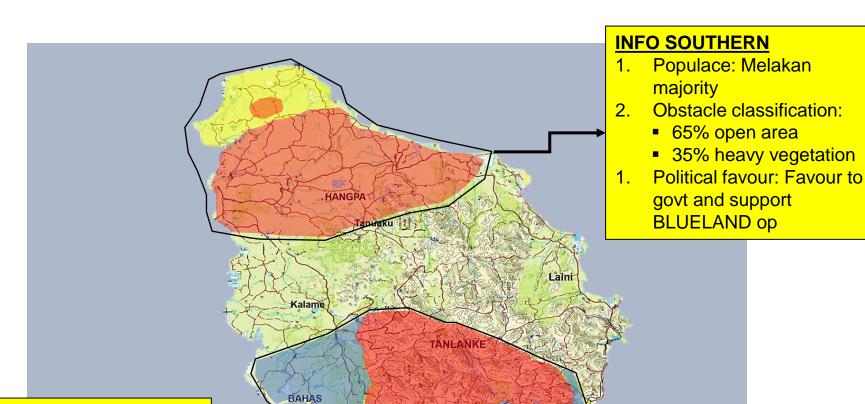


Operation Suitability in AO

GRAPHICAL OVERLAY







Pinrom

INFO NORTHERN

- 1. Populace: Saban majority
- 2. Obstacle classification:
 - 70% hilly and undulate
 - 30% flat and open area
- Political favour: Anti govt and support LANUNLAND op

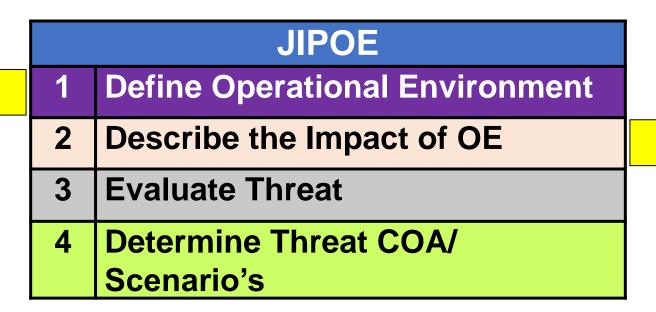
KASUMA ISLAND

1a. Review the Situation
1b. Scope the Threats
1c. Identify Significant Operational Environment Characteristics
1d. Identify Areas of Intelligence Interest and Responsibility
1e. Identify CCIR

2a. Analyse Physical Characteristics of the Operational Environment

2b. Analyse Non-Physical Characteristics of the Operational Environment

2c. Summarise Critical Effects and Issues



DESCRIBE THE IMPACT OF THE OE



Defence Intelligence Staff Division



- Sub Step 1
- Analyse the Physical Characteristics of the Operational Environment



- Sub Step 2
- Analyse the Non-Physical Characteristics of the Operational Environment



- Sub Step 3
- Summarise Critical Effects and Issues

- 1. Define OE
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

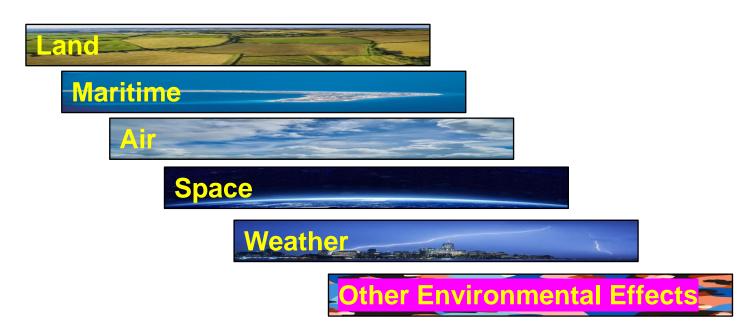


- 1. Define OE
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

Analyse Physical Characteristics of the OE

Defence Intelligence Staff Division

J2 predict or model behaviour of environmental threats and make deductions about the impact of these factors and elements on op or friendly forces of the OE dimensions:



- 1. Define OE
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

2a. Analyse Physical Characteristics of the

OE

2b. Analyse Non-Physical Characteristics of the

OE

2c. Summarise Critical Effects and Issues

Analyse Physical Characteristics of the OF Defence Intelligence Staff Division LAND

Land Dimension

- Describe through terrain or topographic analysis
- To determine its effects on military op both friendly and threat
- ☐ The most important military aspects of terrain are:
 - Observation and fields of fire
 - Cover and concealment
 - Obstacles
 - Key terrain
 - Avenues of approach
- 1. Define OE
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

2a. Analyse Physical Characteristics of the

OE

2b. Analyse Non-Physical Characteristics of the

OE

2c. Summarise Critical Effects and Issues

Analyse Physical Characteristics of the OF



Cont:

- ☐ It also includes facts on:
 - Urban areas
 - Factories
 - Railways
 - Logistical nodes
 - Ammo dumps
 - Roads
 - Other land infrastructure
 - ***** LOC

Analyse Physical Characteristics of the OE

Defence Intelligence Staff Division

Environment	Characteristic Effects (How the characteristic affect the op)		Deduction (how the effect will influence the op)
Land	O Identify potential engagement areas Identify defensible terrain and weapons system positions	open ground where manoeuvring forces are most vulnerable to observation and fires	This area will expose the own or threat troops movement to hostile force observation
	FoF Identify area with a direct line of sight that weapons may cover/fire upon effectively from a given position	clear view within the firing range of	North of Sector B will give advantage to threat if they occupied the particular area
	C The protection from the effects of weapons fires, direct, indirect, and air to ground C Protection from observation, either from the ground or both	Most of area in south east KASUMA Island plant by palm oil plantation which provide a good cover and concealment	The palm oil plantation area will provide a good cover for own/friendly troops. However it's also will give an advantage to threat and jeopardize our fire support plan

Analyse Physical Characteristics of the OF

Defence Intelligence Staff Division

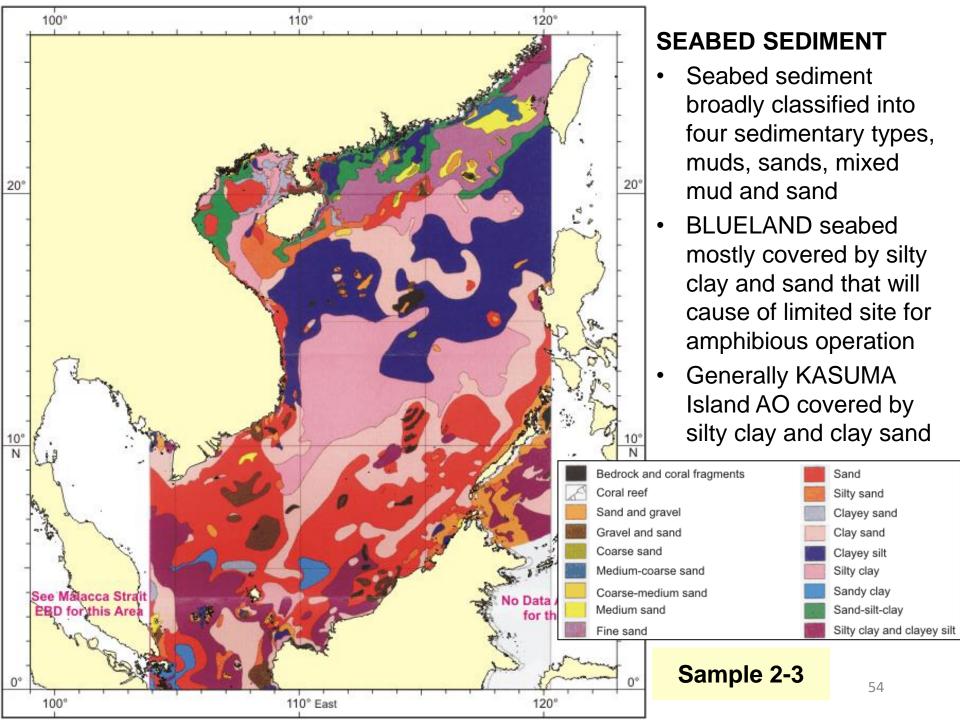
Environment		Characteristic	Effects (How the characteristic	Deduction (how the
			affect the op)	effect will influence the
				op)
Land	0	Vegetation	Huge river of KUANSO will limit the	The river will speed
		Surface drainage	movement of troops	down the op
		Surface materials		momentum and
		Surface configuration		expose troop to hostile
		■ Obstacles (natural		force strike
		and manmade)		
		Transportation		
		systems		
		■ Effects of actual or		
		projected weather		
	K	Some terrain feature	3 spot of high ground at Sector C	Its provide good
		(natural or manmade)	provide with good observation and	observation and field
		which, if controlled, will	fields of Fire	of fire for both forces
		give a marked	- transportation choke-points such	
		advantage to whoever	as a water crossing	
		controls it	- mountain gap, or road junction	
	Α	A ground route of an	KASUMA road and railway system	This situation will limit
		attacking force of a	do not prepared a variety of option	the available MSR and
		given size leading to its	to be a good LOC	ASR
		objective or to key		
		terrain in its path		

Analyse Physical Characteristics of the OE

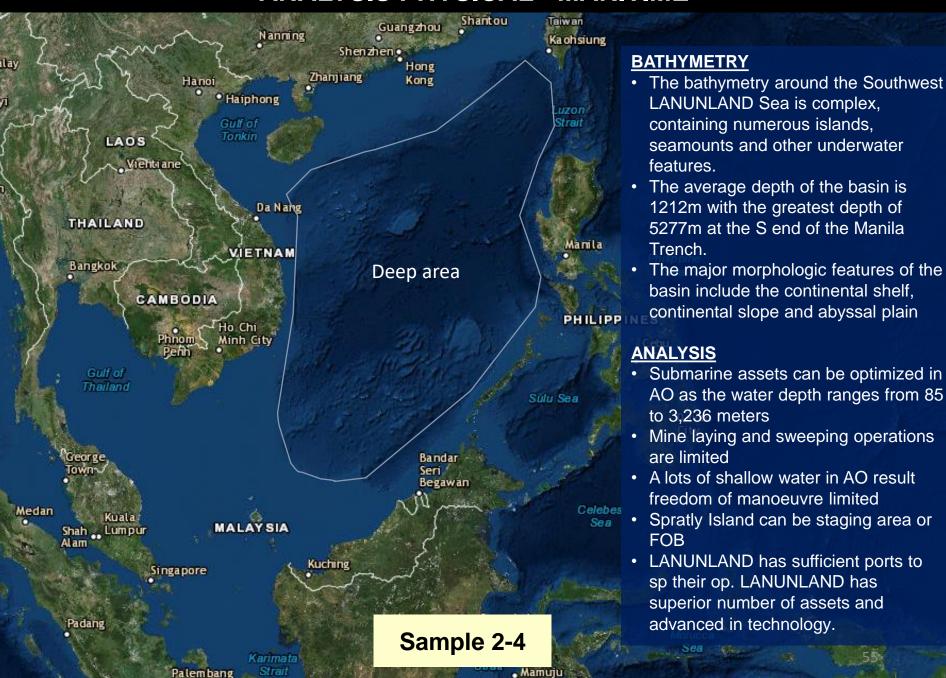


Maritime Dimension

- Pertains to key military aspects of the maritime environment which could impact most notably maritime operations
- This factor include:
 - Manoeuvre space and chokepoints
 - Harbours and anchorages
 - Ports, airfields and naval bases
 - Shipping routes
 - Hydrographic and topographic characteristics of the ocean floor
 - Littoral (beaches, ports, obstacles etc)



ANALYSIS PHYSICAL - MARITIME



Banj armasin

Analyse Physical Characteristics of the OE





Air Dimension

- □ Involves an analysis of all factors of the operational environment that may affect friendly and threat air op
- □ Threat infrastructure that supports either offensive air operations or defence against air attacks should be analyzed
- □ Require analysts to consider not only terrain and weather, but aspects such as airspace issues as well

- 1. Define OE
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

2a. Analyse Physical Characteristics of the

OE

2b. Analyse Non-Physical Characteristics of the

OE

2c. Summarise Critical Effects and Issues



Defence Intelligence Staff Division

Cont:

- ☐ This factor may include:
 - Airports
 - ❖ POL aval
 - Aircraft
 - Maintenance & manufacturing facilities
 - Air navigation
 - Air traffic control

Analyse Physical Characteristics of the OE

		Defence Into	elligence Staff Division
ENVIRONMENT	CHARACTERISTICS	EFFECTS	DEDUCTION
Aerospace	KASUMA Island have 2 airports facilities	 Air landed op, log built up by air and reinforcement is possible Airfield can be use as FOB 	 2 airports provide enough facilities for long term military op
	Only 1 aircraft maintenance center developed in KASUMA	 1 maintenance centre could not facilitate huge military operational requirement 	 This centre need to be defend by all means Aircraft main repair will be provided at current centre at Subang
	 Air traffic control at KASUMA National Airport equipped with Flight data processing systems, Short-term conflict alert and Minimum safe altitude warning 	 Enhance a controller's situation awareness within his assigned airspace 	 This facilities are needed in support of a seamless global air traffic management system during conflict

Sample 2-6

Analyse Physical Characteristics of the OF





Space

- Space-based capabilities include position, navigation, timing, earth observation and communications
- Situational understanding of satellite health and availability are critical to contemporary military activity

- 1. Define OE
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

2a. Analyse Physical Characteristics of the

OE

2b. Analyse Non-Physical Characteristics of the

OE

2c. Summarise Critical Effects and Issues

Analyse Physical Characteristics of the OF

Defence Intelligence Staff Division







- The main features of the climate (temperate, cold, arctic, tropic, subtropics)
- Change of seasons; thaw; duration of the day (sunrise, sunset, twilight etc and their general affects on the preparation execution of the forthcoming military action)
- Cloud cover, low ceiling/visibility, fog, precipitation (rainfall, snow etc)
- Winds, waves (high seas sea state 5 and higher) and surf height
- Temperatures (sea, air, mean and extreme temperatures etc)
- ☐ Humidity and its affect on the use of weapons/equipment and fatigue of personnel; thermal crossover and transmissivity
- Precipitation (rainfall, snow etc) and its affect on off-road trafficability;
 currents, tides etc

Analyse Physical Characteristics of the OF

	The state of the s
Defence Intelligence Staff Division	Ancadara
3 8 - 33	EITER

	ISR OPERATIONS			
Elements	Critical Value	Impact		
Ceiling—cloud	≤ 200 ft	Engagement range		
and sky cover	≤ 1,000 ft	Aerial observation		
Wind	> 60 knots	Equipment damage		
Precipitation	>2.54 mm/h	Audio sensors and radar effectiveness		
	> 12.7 mm/h	Speed of personnel and equipment movement		
	> 50 mm/12 hrs	Speed of personnel and equipment movement; traffic ability and storage of equipment		
Thunderstorms and lightning	Any occurrence within 3 nm	Troop and equipment safety; false alarms and false readings		
Temperature (Surface)	20 > °C > 50	Emplacement site selection		



Weather Effect on Amphibious Op

Weather Effect During NE Monsoon						
	Weaponries	Sensor	Comm	Mobility	Resup	Morale
Capital Ship						
Small Craft						
Support Ship						
Amphibious						
MCM						
Submarine						

Favourable

Moderate

Not Favourable

Sample 2-11



- □ Provide an overview of the other natural phenomena issues that potentially can affect the employment of military forces on both sides
- □ Issues of natural disaster, hygiene problem, disease or famine
- ☐ It may effect morale, the level of personnel and medical support required for op

- 1. Define OE
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

2a. Analyse Physical Characteristics of the

OE

2b. Analyse Non-Physical Characteristics of the

OE

2c. Summarise Critical Effects and Issues



Other Environmental Characteristics & Effects

ELEMENT	CHARACTERISTICS	EFFECTS	DEDUCTIONS
	 The environment in KASUMA is tropical A high level of health countermeasures is to be taken by deployed forces 	Personnel should be medically fit and extensively immunised against diseases requiring 30 days to complete the process	This could affect the preparations and timing of any significant land deployment
Environmental Hazards	Thunderstorm and lighting on Apr 17 because of between Monsoon Season	The land will muddy and the weather is rainy	Manoeuvre is restricted and MS BOS is required to standby to be deployed
	 Lots of illegal immigrants from LAN 	 Cleanliness and sanitary issue along with the increasing of slums Unvaccinated children 	Need to vaccine mil per with proper vaccination and give awareness regarding health care

Analyse Non Physical Characteristics of the Open



- ☐ Look beyond the "obvious" geospatial limits of the AO
- □ A detailed description of the human domain of the OE focused on operational threats
- □ Involves analysis of communications, media and information technology which govern the distribution and use of information to a population
- ☐ Includes an analysis of the effects of the threat information activities on own/friendly forces

- 1. Define OE
- 2. Describe the Impact of OE
- 3. Evaluate Threat
- 4. Determine Threat COA/ Scenario's

2a. Analyse Physical Characteristics of the OE

2b. Analyse Non-Physical Characteristics of the OE

2c. Summarise Critical Effects and Issues





- □ Relevant data on international, regional, national socio-political stakeholders
- ☐ The main characteristics of the political system (system of government; executive, judiciary, legislature etc)
- ☐ Form of government; administrative divisions; legal system; constitutional system and constitutional issues; ruling regime; political parties and leaders; human rights; political stability; internal threats (political extremism, terrorism, insurgency, serious crime/drugs etc)
- ☐ Language, social institutions and attitudes and similar factors

Analyse Non Physical Characteristics of the Ok



Human Factors Characteristics & Effects

ELEMENT	CHARACTERISTICS	EFFECTS	DEDUCTION
	- BLUELAND foreign policy based on neutrality and maintaining peaceful relations with all countries	- Limit the aggressive action towards others	- This situation will produce uncertainty within the society support on LAN military aggression
Socio political	- LAN Regime unstable political situation	- This leadership crisis will influence LAN strategic decision making	- President of LAN still have an authority to launch military campaign where war still cannot be avoided
	- 35% of main population in LAN sharing a similarity on culture and language as Malaysian	 The society probably will not support their leader strategic decision This will influence the emotional sensitivity of the people 	- Psyop plan will determine degree of support toward LAN leadership and government



Information Domain

- □ Involves analysis of communications, media and information technology, which govern the distribution and use of information to a population
- □ It may include threat information activities where a capability and intent may exist

INFO CHARACTERISTICS & EFFECTS

ELEMENT	CHARACTERISTICS	EFFECTS	DEDUCTIONS
	LANUNLAND have cyber warfare capability	The system created strong wall for LAN from any cyber aggression	Vulnerable to cyber attack and prevent reaction against military onslaught
Information	from BLUELAND Peninsular and 1	digital data, which includes telephone,	[·
	The latest trend in KASUMA is the Fixed 4G LTE technology	Many KASUMAN who live in rural and remote areas can now access a good telephone and broadband internet service	This will provide best platform to conduct psyop





Defence Intelligence Staff Division

Threat IO Capabilities and Effects

Capability	Elements	Effects
CORE	EW	- Collections of Information's/Data - Deception (Dummy Radio Network/False Info) - Jamming (Comms & RADAR) ESM: Surveillance, Interception, Direction Finding, Intelligence, Gathering & Analysis, LANUNLANDERS Warning & Threat Warnings EPM: Emission Control, Spectrum Management, Wartime Reserve Mode & Cryptography
	Psyop: - Propaganda	 Ops Against The National Will: Reducing the will of the population Ops Against Opposing Commanders: Destabilizing the enemy's leadership Ops Against Tps: Demoralize the enemy troops Internal Conflict: Create tension among people through political issues/religion/culture
	Military Deception	- Dummy asset/eqpts or installations
	Cyber Warfare	- Espionage and national security breaches - Sabotage (C2 Center, COMCEN, mil eqpts, banking sys, pwr plant, broadcast stn, transportation sys, stock market, economic center etc)
	OPSEC	Identifying essential elements of friendly info & subsequently analyzing friendly actions & other activities

Analyse Non Physical Characteristics of the Ok



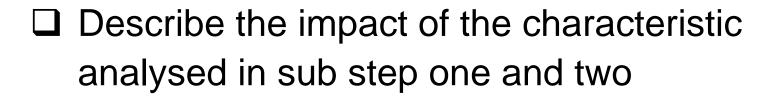
Defence Intelligence Staff Division

Cont:

Capability	Elements	Effects	
	Information Assurance (IA)	Providing restoration of info sys incorporating protection, detection, and reaction capabilities	
	Counter-Intelligence (CI)	Info gathered & activities conducted to protect against espionage, sabotage & subversion	
SUPPORTING	Protective Security	To safeguard personnel, material & info from espionage, sabotage, damage & theft	
	Preventive Security	Neutralizing effectiveness of hostile intelligence efforts & the acquisition of intelligence concerning its organization, motives, intention & mission	
	Counterpropaganda	 Preventive: Form of propaganda awareness programs Counteractions: To reduce or neutralize the effects of hostile propaganda Rumors: Disseminated talk or opinion 	

ASCOPE/PEMSII Analysis

	P (Political)	E (Economic)	M (Military/ Police)	S (Social)	l (Infra)	l (Info)
A (Areas)	Political Areas (District Boundary, Party affiliation areas)	Economic areas (bazaars, shops, markets)	Military Areas (Coalition/LN bases, historic ambush/IED sites)	Social Areas (parks and other meeting areas)	Irrigation networks, water tables, medical coverage	Radio/TV/newspa pers (where people gather for word-of-mouth)
S (Structure)	Political Structures (town halls, government offices)	Economic Structures (banks, markets, storage facilities)	Military/Police buildings (police HQ, Military HQ locations)	Social Structures (Masjid, restaurants, bars, etc.)	Infrastructure Structures (roads, bridges, power lines, walls, dams)	Info Structures (Cell/Radio/TV towers, print shops)
C (Capabilities)	Political Capabilities (Dispute resolution, Insurgent capabilities)	Economic Capabilities (access to banks, ability to withstand natural disasters)	Military Capabilities (security posture, strengths and weaknesses)	Social Capabilities (Strength of local & national ties)	Infrastructure Capabilities (Ability to build/maintain roads, walls, dams)	Info Capabilities (Literacy rate, availability of media/phone service)
O (Organization s)	Political Organizations (Political parties and other power brokers, UN)	Economic Organizations (Banks, large land holders, big businesses)	Military Organizations (What units of military, police, insurgent are present)	Social Organizations (tribes, clans, families, youth groups, NGO/IGO)	Infrastructure Organizations (Government ministries, construction companies)	Info Organizations (NEWS groups, influential people who pass word)
P (People)	Political People (Governors, councils, elders)	Economic People (Bankers, landholders, merchants)	Military People (Leaders from coalition, LN and insurgent forces)	Social People (Religious leaders, influential families)	Infrastructure People (Builders, contractors, development councils)	Info People (Media owners, mullahs, heads of powerful families
E (Event)	Political Events (elections, council meetings)	Economic Events (drought, harvest, business open/ close)	Military Events (kinetic events, loss of leadership, operations)	Social Events (holidays, weddings, religious days)	Infrastructure Events (road/bride construction, well digging, scheduled maintenance)	Info Events (IO campaigns, project openings, CIVCAS events)



□ Deduction on how they effect the fol key op aspects:

Mobility

- 1. Define OE.
- 2. Describe the Impact of OE.
- 3. Evaluate the Threat.
- 4. Determine Adversaries COA.

- 2a. Analyse Physical Characteristics of the OE.
- 2b. Analyse Non Physical Characteristics of the OF
- 2c. Summarise Critical Effects and Issues.



Military Capability (own/friendly and threat)

- Weapon system and tactics
- ISR
- C4
- Logistics
- Personnel
- Targeting
- 1. Define OE.
- 2. Describe the Impact of OE.
- 3. Evaluate the Threat.
- 4. Determine Adversaries COA.

- 2a. Analyse Physical Characteristics of the OE.
- **2b.** Analyse Non Physical Characteristics of the OE.
- **2c. Summarise Critical Effects and Issues.**



- Information operation
- Other critical effects and issues related to key operation aspects

- 1. Define OE.
- 2. Describe the Impact of OE.
- 3. Evaluate the Threat.
- 4. Determine Adversaries COA.

- 2a. Analyse Physical Characteristics of the OE.
- 2b. Analyse Non Physical Characteristics of the OE.
- 2c. Summarise Critical Effects and Issues.

SUMMARIES CRITICAL EFFECTS AND ISSUES

ELEMENT	ISSUES	CRITICAL EFFECT					
Mobility							
Ground	 BLUELAND coastal areas along the approximately 2,300 km covering the South LANUNLAND Sea in the north and west and the Sulu Sea and Sulawesi to the east. While its land borders with neighbouring countries is 2,486 km long, covering 2,026 km with 460 km of Borneo and Brunei. 	Bridge across the main routes are the choke point for both parties.					
Maritime	 Open sea between the Spratly Islands with BPA / BRJ and East Coast BLUELAND Shallow waters within an islands and reefs. SLOCs in SCS between Spratly Islands and BPA / BRJ. The waves height <1.2m causes the choppy water. 	Shallow water causes the limited operation for submarine mostly in the south of the island group, SCS and coral					

Cont:

ELEMENT	ISSUES	CRITICAL EFFECT					
Airspace	 Main ALOC in SCS between All and BPA/BRJ. Conflict area is apart from main land 	 AC outside the range detection radar. Difficulties in identifying an aircraft. Aircraft may masquerade as civil aircraft. AAR require to distance flights. 					
Military Capability							
C4	Deception for offensive manoeuvre must be fully coordinated at highest tac HQ for coordination of disguising LANFOR mov (no redundancy and leaking)	•LAN has sophisticated secure communications, will provide sufficient collection opportunities and capability of operating with C3 throughout the AO					
Targeting	LANFOR will destroy the BLF bases/ports/supply depot to disrupt BLF operation.	BLUELAND not capable to launch any military operation.					
Logistic	Using civ airports and ports as necessary to support any mil op.	Time taken to support the mil op					
Personnel	Less exercise conducted within the dispute area to get BLUELAND's mil pilots familiar with the area.	 Most of the ac sqn with the man power are from west BLUELAND. If the conflict prolong, it will demoralize the men. 					

KEY PRODUCTS OF STEP 2



Defence Intelligence Staff Division

- Physical characteristic graphics (Combination Graphics, normalcy graphic, environmental graphic, etc)
- Descriptions of applicable non-physical characteristic of the OE (Human factors, IO, etc)
- Summary of critical effects and issues describing the impact of both characteristics the OE on key operational aspects
- ☐ JIPOE Brief on Step 2

- 1. Define OF.
- 2. Describe the Impact of OE.
- 3. Evaluate the Threat.
- 4. Determine Adversaries COA.



KEY PRODUCTS OF STEP 1 AND STEP 2

Step 1: Define Operational Environment

+

Step 2: Describe the Impact of OE

ANALYSIS OF THE OPERATIONAL ENVIRONMENT (AOE)

- 1. Define Operational Environment.
- 2. Describe the Impact of OE.
- 3. Evaluate the Threat.
- 4. Determine Adversaries COA.