

**SENECA ENTERPRISES LTD.**

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**SPRUCE BARK BEETLE REPORT
FH16DMK010**POLYGON: **2015-PHI-016**

HECTARES:

40.98

WALKTHROUGH DISTANCE:

2300

ESTIMATED INFESTED PIXELS FROM

WALKTHROUGH (Code 1-4)

0**0.0%****SUMMARY OF CURRENT INFESTATION**

Walkthrough found no signs of current or old attack. Stand is a mix of Spruce Balsam with Heavy thick balsam areas in places.

NO ATTACK

ACCESS

Access was 170 meter walkin from mainline road.

POLYGON FEATURES (Topography, Terrain, Timber Types, Age)

Areas of swampy wet ground to the north portion of polygon near lake. Relatively flat area with slopes 0-25%in the southeast. North section of polygon tight, dense mainly Balsam stand

SIZE, BOUNDARY and PATTERN OF INFESTATION

No recent or old attack found.

INCIDENCE AND SEVERITY OF ATTACK

No recent or old attack found.

RISK OF BEETLE SPREAD

Minimal as no recent or old attack found on walkthrough.

ACCESS, OPERABILITY and INTEGRATED RESOURCE MANAGEMENT ISSUES

Good access on mainline, 170m walk in to polygon

RECOMMENDATIONS**OPTION 1****NO ACTION**

From walkthrough did not find any signs of recent or old attack.

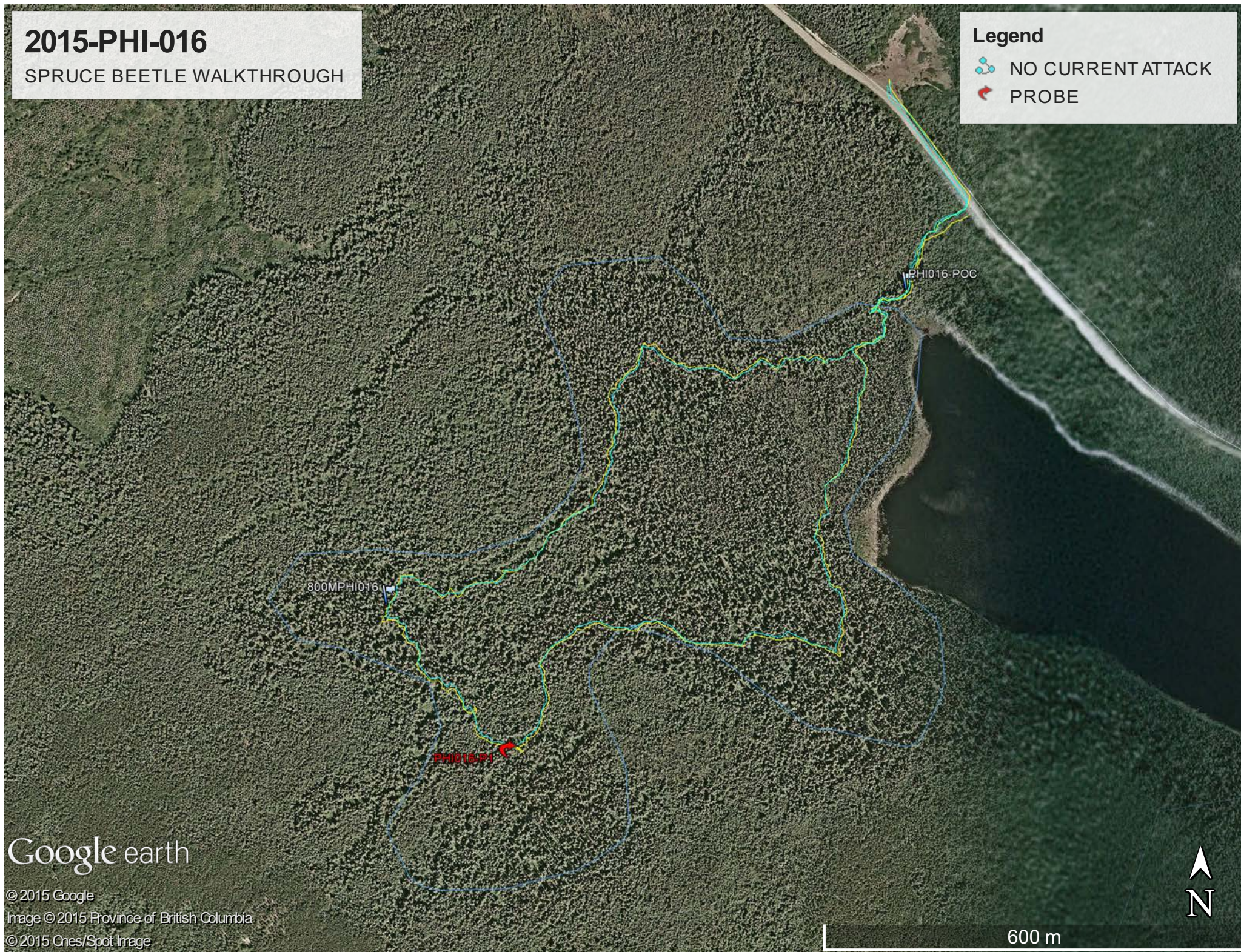
OPTION 2**MONITOR**

2015-PHI-016

SPRUCE BEETLE WALKTHROUGH

Legend

-  NO CURRENT ATTACK
-  PROBE



OF NOTE- Results taken from a 100m Probe Line established at 1 per 50 hectares to represent

DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES
			2015		2014		2013		
			1	2	3	4	5	6	
17.5-25.0	3.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	3.3
25.1-30.0	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	21.2
30.1-35.0	7.1	42.6	0.0	0.0	0.0	0.0	0.0	0.0	42.6
35.1-40.0	9.4	47	0.0	0.0	0.0	0.0	0.0	0.0	0
40.1-45.0	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	23.2
45.1-50.0	13.8	0	0.0	0.0	0.0	0.0	0.0	0.0	27.6
50.1-55.0	16.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0
55.1-60.0	18.7	0	0.0	0.0	0.0	0.0	0.0	0.0	56.1
60.1 +	25.3	0	0.0	0.0	0.0	0.0	0.0	0.0	25.3
TOTALS	113.1	113.1	0.0	0	0.0	0.0	0.0	0	199.3

TABLE 4- Spruce Beetle Attack Density and Larval Density Rating			
MEAN NO. OF ENTRANCE HOLES PER 225 cm2 PHLOEM SAMPLE	< 1 LOW Attack Density	MEAN NO. OF LIVING LARVAE PER 225 cm2 PHLOEM SAMPLE	< 4.9 LOW Mean Larval Density
	1.0- 1.9 MOD Attack Density		5.0 - 14.9 MOD Mean Larval Density
	2.0 - 3.9 HIGH Attack Density		15-24.9 HIGH Mean Larval Density
	< 3.9 SEVERE Attack Density		>24.9 EXTREME Mean Larval Density
0.00		0.00	

TABLE 2- Spruce Beetle Management Options after Walkthrough						
% 2015 ATTACK	0.0%	0.0	SANITATION AND SALVAGE HARVEST PRIORITY RATING			
% 2014 ATTACK	0.0%	##	LIGHT	0-599	LEAVE (Monitor, Trap Trees, Baits, etc)	0.0
% 2013 ATTACK	0.0%	##	MODERATE	600-999	PROBE (To Obtain Further Info)	
% HOST IN STAND	50.0%	##	HEAVY	1000+	RECOMMEND CRUISING/ LOGGING	

ONE PROBE LINE, NO BARK SAMPLE NO ATTACK

SUMMARY OF ALL CARDS FS1111						NUMBER OF CARDS		1		
ACCESS -		Access was 170 meter walkin from mainline road.								
POLYGON FEATURES -		Areas of swampy wet ground to the north portion of polygon near lake. Relatively flat area with slopes 0-25%in the southeast. North section of polygon tight, dense mainly Balsam stand								
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES	
			2015		2014		2013			
			1	2	3	4	5	6	BL	AT
17.5-25.0	3.3	2	0	0	0	0	0	0	1	0
25.1-30.0	5.3	1	0	0	0	0	0	0	4	0
30.1-35.0	7.1	6	0	0	0	0	0	0	6	0
35.1-40.0	9.4	5	0	0	0	0	0	0	0	0
40.1-45.0	11.6	1	0	0	0	0	0	0	2	0
45.1-50.0	13.8	0	0	0	0	0	0	0	2	0
50.1-55.0	16.2	0	0	0	0	0	0	0	0	0
55.1-60.0	18.7	0	0	0	0	0	0	0	3	0
60.1 +	25.3	0	0	0	0	0	0	0	1	0
TOTALS		15	0	0	0	0	0	0	19	0
BARK SAMPLES 15 cm x 15 cm		NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE ADULTS	NO. CALLOW	FRESH (GREEN) BLOWDOWN			
							Attacked Y r	Y r	Unattacked	
0		0	0	0	0	0	0		0	0
SIZE, BOUNDARY AND PATTERN OF THE INFESTATION										
No recent or old attack found.										
INCIDENCE AND SEVERITY OF THE INFESTATION										
No recent or old attack found.										
RISK OF BEETLE SPREAD										
Minimal as no recent or old attack found on walkthrough.										
ACCESS, OPERABILITY AND INTEGRATED RESOURCE MANAGEMENT ISSUES										
Good access on mainline, 170m walk in to polygon										



BRITISH
COLUMBIA



BEETLE PROBE CARD

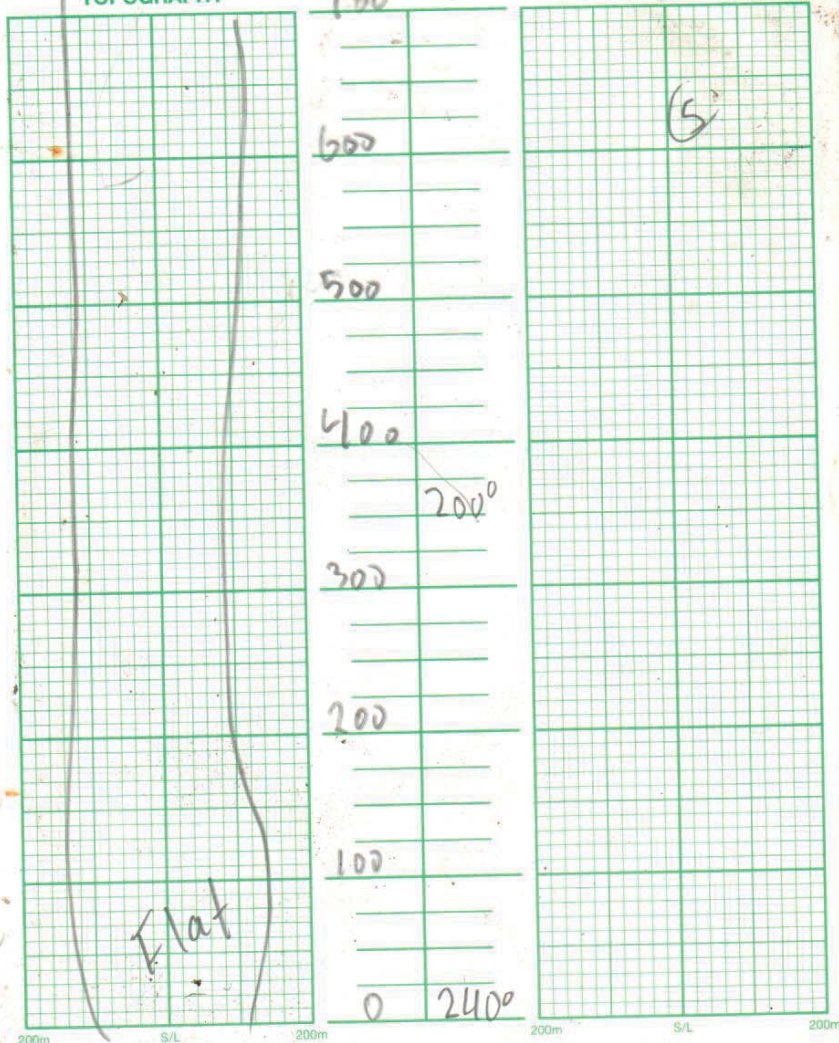
P1

LOCATION 5448128 PH1016 6102952		ELEVATION 1070		LATITUDE		PAGE OF					
BEARING 34	STRIP LINE NO P1	STRIP WIDTH 10m	DISTANCE 100m	BEETLE SPECIES ☐ SB ☐ MPB ☐ DFB							
DIAMETER CLASS	SURFACE AREA FACTOR	NUMBER OF HEALTHY HOSTS	BARK BEETLE CODE BY YEAR OF ATTACK						OTHER TREE SPECIES		
			1	2	3	4	5	6	MAIN	OTHER	
12.5 - 17.4	2.0										
17.5 - 25.0	3.3										
25.1 - 30.0	5.3										
30.1 - 35.0	7.1										
35.1 - 40.0	9.4										
40.1 - 45.0	11.6										
45.1 - 50.0	13.8										
50.1 - 55.0	16.2										
55.1 - 60.0	18.7										
60.1 -	25.3										
TOTALS		15							19		
BARK SAMPLES 15cm x 15cm	NO. ENTRANCE HOLES	NO. PARENT ADULTS	NO. LARVAE	NO. PUPAE	NO. CALLOW ADULTS	FRESH (GREEN) BLOWDOWN					
						Attacked	Unattacked				
COMMENTS No ATTACK											
CREW NAMES JAMES KELLY						DATE Y M D 15 11 13					

TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



Flat

STRIP NO.: 1

DIRECTION:

240°, 200'

START STRIP:

0-700

JOB NO.:

PHI-016

DATE:

NOV 13, 15

CREW:

REMARKS:

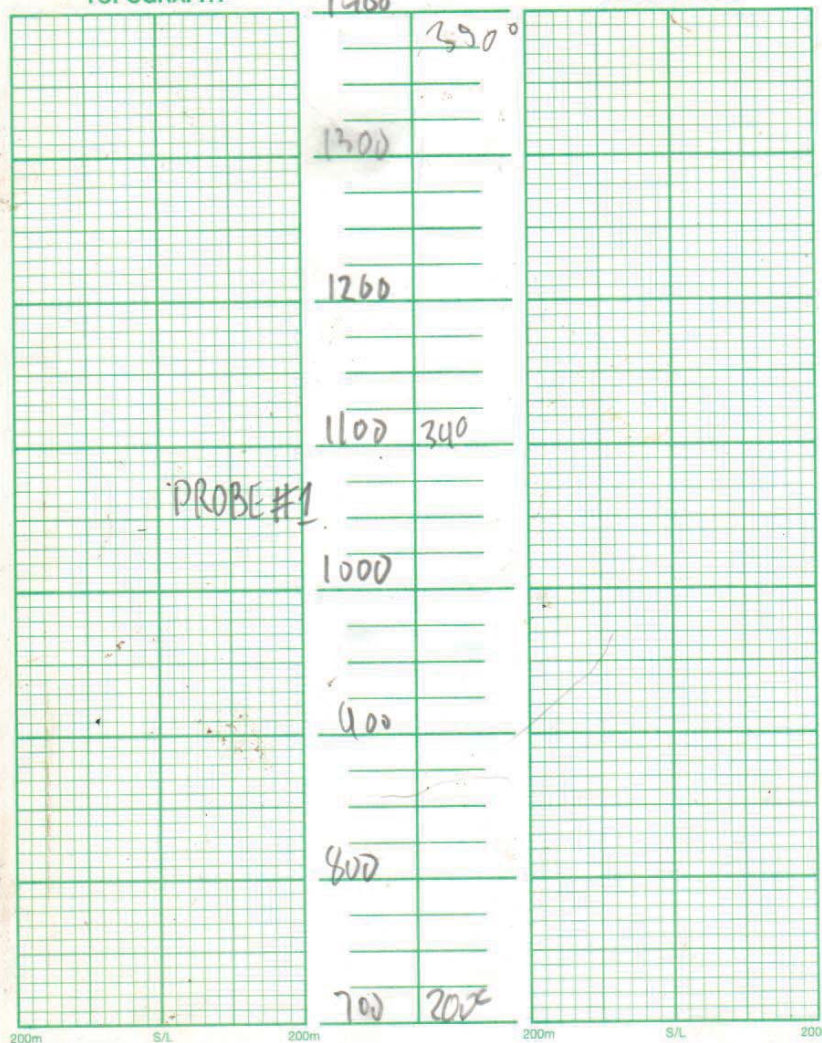


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TOPOGRAPHY

STRIP No. 1

TIMBER TYPE



PROBE #1

STRIP NO.: 1

DIRECTION:

200° 340'

START STRIP:

100-1400

JOB NO.:

PHI-016

DATE:

NOV 13, 15

CREW:

REMARKS:



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TOPOGRAPHY

STRIP No. 1

TIMBER TYPE

TOPOGRAPHY	STRIP No. <u>1</u>	TIMBER TYPE
	2300	
	2200	
	2100	
	2000	
	1900	
	1800	
	1700	
	1600	
	1500	
	1400	
	350°	

STRIP NO.:

1

DIRECTION:

350°

START STRIP:

1400 - 2300

JOB NO.:

PHI-016

DATE:

NOV 13, 15

CREW:

REMARKS:

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