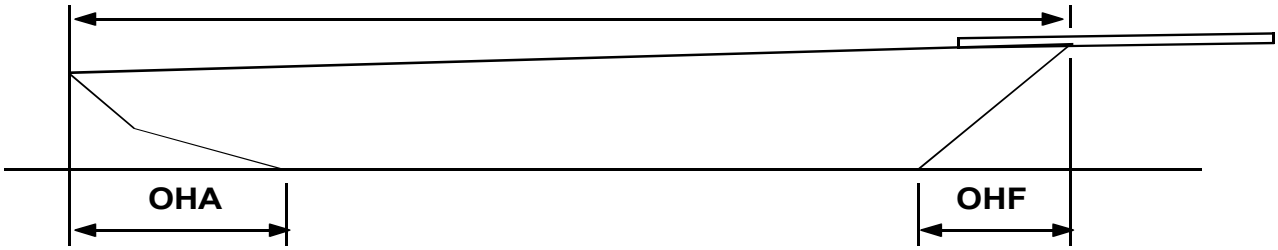
NOVA SCOTIA SCHOONER ASSOCIATION
VESSEL MEASUREMENTS - HULL

SCHOONER: Alexia
DATE MEASURED: 2016-08-04
MEASURED BY: LL & ASR
LOCATION OF MEASUREMENT: Hubbard's

LOA – Intersection of FWD side of stem and top of covering board, or fair extensions of each to the aftermost part of hull or taff rail.



LWL = **LOA** – (**OHF** + **OHA**) Include stem and stern posts, exclude rudder.
Beam = Maximum beam excluding rub rails, etc.

NOTA: All measures to the nearest inch and inserted into the respective shaded boxes in decimal feet.
Use the chart below to convert inches to decimal feet.

Inch	Decimal Foot	Inch	Decimal Foot
1	0.08	7	0.58
2	0.16	8	0.67
3	0.25	9	0.75
4	0.33	10	0.83
5	0.42	11	0.92
6	0.50		

LOA	42.16	Length Overall : Intersection of Forward side of Stem and Top of covering board or fair extension of each to the Aftermost part of hull or taffrail. Includes Stem and Stern Posts but Excludes Rudder
OHF	3.50	Overhang Forward
OHA	5.50	Overhang Aft
LWL	33.16	Length Waterline = LOA – (OHF + OHA)
BEAM	11.33	Maximum Beam Excluding Rub Rails etc.
BC	-1.58	Beam Correction = 2 * (LOA / 4 – BEAM)
PL	37.66	= (LOA + LWL) / 2
L	**36.08**	Length = PL + BC
PA	0.94	Propeller Allowance
RA	0.60	Rig Allowance
RL	**29.18**	**RATED LENGTH**

RL =((L + (2 * √MSA * RA)) / 2.5) * PA

Propeller Allowances	
None	1.00
One feather/fold	0.98
One 2-blade solid	0.96
One 3-blade solid	0.94

Rig Allowances	
Gaff	0.60
Marconi	0.70
Staysail	0.80
Fully-battened/Unstayed	1.00

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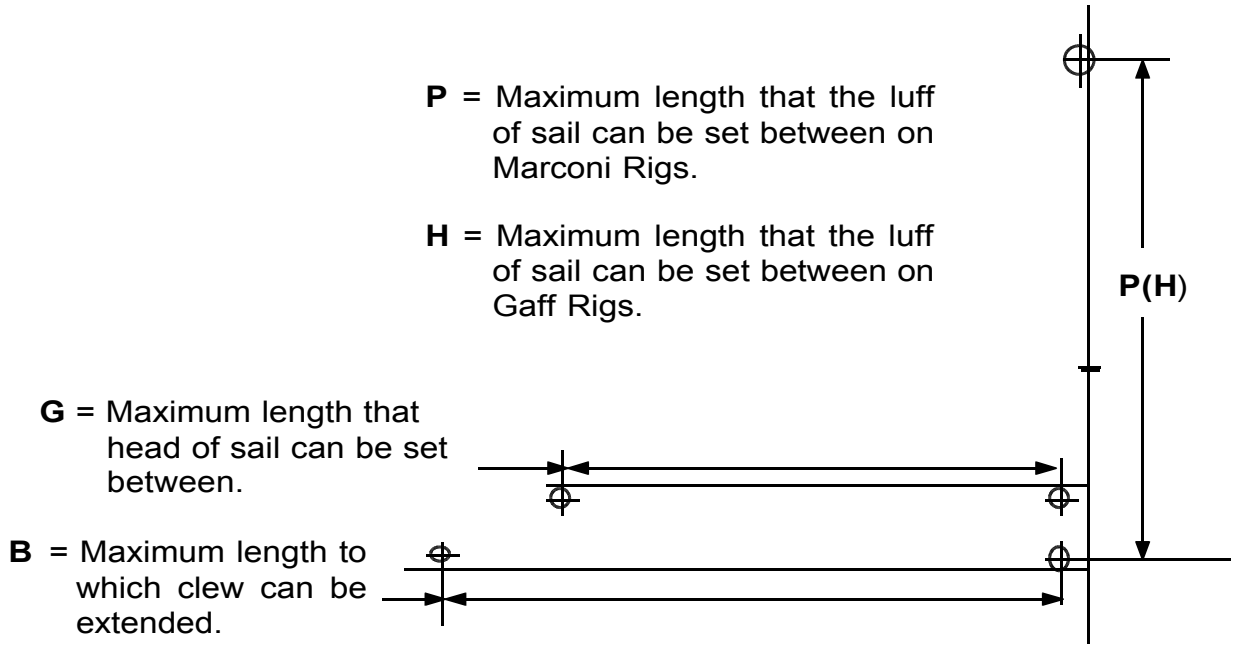
VESSEL MEASUREMENTS - RIG : MAINSAIL



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	MARCONI		GAFF	
P		Maximum Luff : Maximum length that the luff of sail can be set between.	27.75	**H**
B (Marc.)		Maximum Clew : Maximum length to which clew can be extended.	22.08	**B (Gaff)**
		Maximum Gaff : Maximum length that head of sail can be set between.	15.75	**G**

AREA of MARCONI RIG

$$\frac{0.5 \times (B \times P)}{2}$$

$$\frac{0.5 \times (B \times P)}{2}$$

0.00 **Square Feet**

AREA of GAFF RIG

$$\frac{(B \times H) + (G \times D)}{2} \quad \text{Where } D = 0.96\ ((B \times B) + H)^{1/2}$$

$$\frac{(B \times H)+(G \times 0.96 \times \text{ROOT}((B \times B)+(H \times)))}{2}$$

574.46 **Square Feet**

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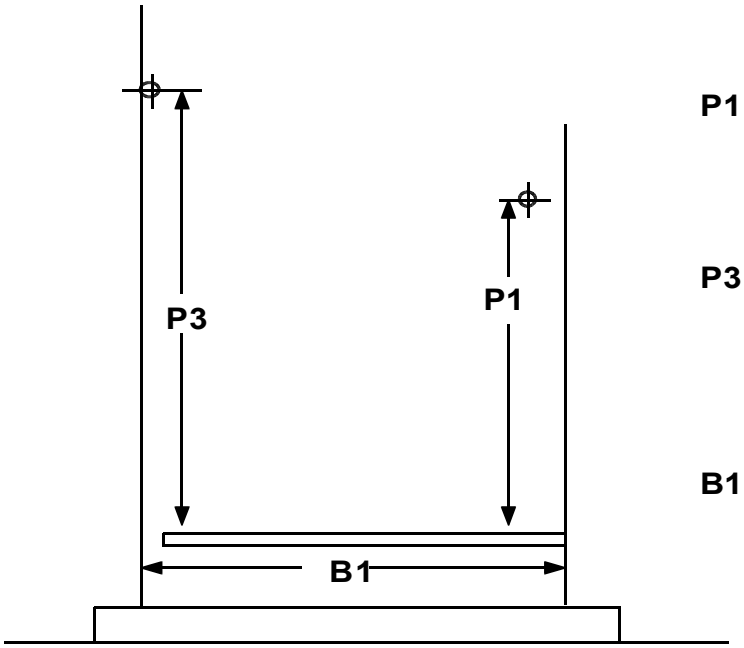
VESSEL MEASUREMENTS - RIG : AREA BETWEEN THE MASTS



P1 = Length from top of boom in lowest position to highest block on aft side of foremast. It will be the peak halyard or fisherman halyard.

P3 = Length from top of boom when parallel to deck to highest block on fore side of mainmast, or highest block on aft side of mainmast if no fisherman is to be carried.

B1 = Distance from fore side of mainmast to aft side of foremast at boom height parallel to deck or cabin top.

NOTA: All measures to the nearest inch and inserted into the respective shaded boxes in decimal feet.
Use the chart below to convert inches to decimal feet.

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1	0.08
2	0.16
3	0.25
4	0.33
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6	0.50

Inch	Decimal Foot
7	0.58
8	0.67
9	0.75
10	0.83
11	0.92

ALL RIGS

P1	32.50	Length from top of boom in lowest position to highest block on aft side of foremast peak halyard or fisherman halyard.
P3	38.00	Length from top of boom when parallel to deck to highest block on fore side of mainmast **or** highest block on aft side of mainmast if no fisherman is to be carried.
B1	13.58	Distance from fore side of mainmast to aft side of foremast at boom height parallel to deck or cabin top.

AREA $0.75 \frac{((P1+P3)}{2} \times B1)$

359.02 **Square Feet**

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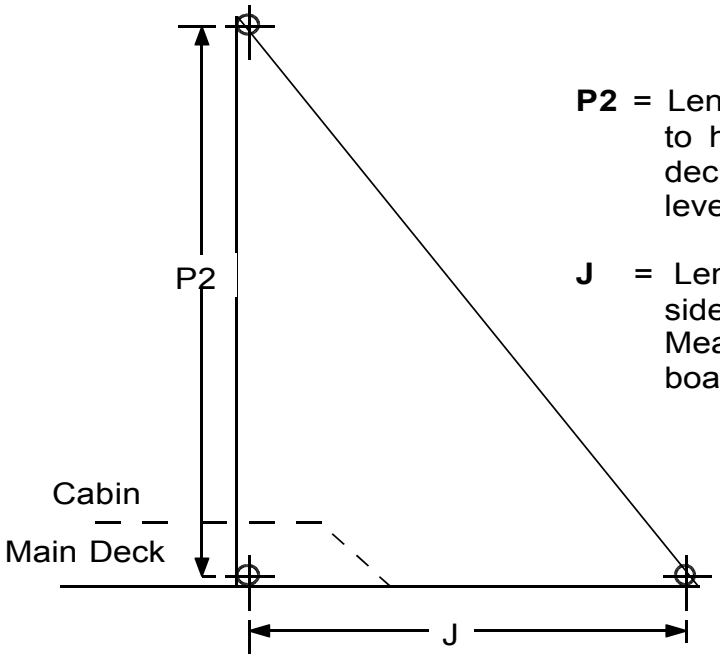
VESSEL MEASUREMENTS - RIG : AREA FORE TRIANGLE



P2 = Length along forward side of foremast to highest jib halyard block from main deck level. Project cabin top to deck level at centre-line of boat.

J = Length from foremost stay fitting to fore side of foremast at main deck level. Measure cabin length inside or outside boat as necessary.

NOTA: All measures to the nearest inch and inserted into the respective shaded boxes in decimal feet. Use the chart below to convert inches to decimal feet.

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5	0.42	11	0.92
6	0.50		

ALL RIGS

P2	32.33	Length along forward side of foremast to highest jib haliard block from main deck level. Project cabin top to deck level at centerline of vessel.
J	16.33	Length from foremost stay fitting to fore side of foremast at main deck level. Measure cabin length inside or outside vessel as necessary.

AREA 0.50 x (P x J)

263.97 **Square Feet**