

## 2023 PHRF-NB Membership/Rating Certificate

This certificate expires on April 30, 2024, or upon change of ownership, whichever comes first.

**Certificate status: Published**

Ratings	
203	229
Spinnaker	Non-Spinnaker

### Administrative Data

<b>Name:</b>	Paul Raterron
<b>Address:</b>	Privacy Protected
<b>Email:</b>	
<b>Primary Phone:</b>	
<b>Secondary Phone:</b>	
<b>Yacht Club:</b>	

### Yacht

<b>Yacht Name:</b> Njorth Star	<b>Sail Number:</b> 811
<b>Designer:</b> Peter Norlin	
<b>Manufacturer:</b> Albin Marine	<b>Model:</b> ALBIN CUMULUS 28
<b>Hull Serial Number:</b> AMNCM216M82C	<b>Date Manufactured:</b> 1982
<b>Other Ratings:</b>	<b>Date Last Rated:</b>

### Boat Measurements

<b>I:</b> 35.1	<b>J:</b> 10.82	<b>LOA:</b> 28.08
<b>P:</b> 35.1	<b>E:</b> 9.84	<b>LWL:</b> 22.33
<b>ISP:</b> 35.1	<b>SPL:</b> 10.82	<b>Draft:</b> Max 4.5
<b>Py:</b>	<b>Ey:</b>	
<b>Beam:</b> 9.25	<b>Displacement:</b> 7055	
<b>Rig Type:</b> Sloop	<b>Rig:</b> Fractional	
<b>Keel Weight:</b> 2810	<b>Keel Material:</b> Iron	
<b>Composite Rigging:</b> no	<b>Other Ballast:</b>	
<b>Mast Material:</b> Aluminum	<b>Spinnaker Type(s):</b> Symmetrical	
<b>Asymmetrical Spinnaker Tacked To:</b>		

### Sails

Headsails to be used (LP%)		Mainsail Measurements	
<b>Headsail 1</b>	130	<b>MHB</b>	
<b>Headsail 2</b>	110	<b>MUW</b>	
<b>Headsail 3</b>		<b>MTW</b>	
<b>Headsail 4</b>		<b>MHW</b>	
		<b>MQW</b>	

### Spinnakers to be used

Spin #	JC	SMG	Foot	Luff	Leech
<b>Spin 1</b>	0	20.42	16.92	30.5	30.5
<b>Spin 2</b>	0	22.1	20.6	36.2	36.2
<b>Spin 3</b>					
<b>Code 0</b>					

**Headsail Credit:** Roller Furling

### Variables

<b>Engine:</b> Inboard	<b>Prop. Type:</b> Folding
<b>Prop. Install:</b> Aperture	<b>Rudder:</b> Spade
<b># of Blades:</b> 2	<b>Keel:</b> Fin Keel

### Comments/Modifications

My boat has a shoal keel (see attached photo). It's draft is 4.5' instead of the standard 5.3'. = +6  
2019-Spinnaker measurements required KER  
2021- No spin onboard. Removed 130 headsail. Revision #1. Revision 2 Added 130% headsail.  
2022- Added sym. spinnaker +7.  
223- Oversized asym spin -6

### Committee Use Only

PHRF #: 17456			
<b>Base Rating</b>	195	<b>Non-Spin Adj.</b>	20
<b>Genoa Spin Adj.</b>	8	<b>Genoa Non-Spin Adj.</b>	8
<b>Mainsail Adj.</b>	0	<b>Furling Adj.</b>	3
<b>Spin. Area Adj.</b>	-6	<b>Whisker Pole Adj.</b>	0
<b>Prop. Adjustment</b>	-3		
<b>Mast Adj.</b>	0	<b>Misc. Adj.</b>	6
<b>Committee Signature</b>	<b>Date</b>		
Katherine Rotsky	2023-05-09		