

5/12/04 → 5/25/04

**THE SECOND ANNUAL
GREAT POTTER YACHTER
NORTHWEST ESCAPE
AND
MESSABOUT**



May 2004

*“There is nothing – absolutely nothing –
half so much fun doing
as simply messing about in boats.”*

**Kenneth Grahame
“The Wind in the Willows”**

MISSION STATEMENT

The mission,

should you choose to accept it, is to hone the lessons learned from the First Annual Great Potter Yachter Northwest Escape and Messabout, and once again trailer our intrepid sailing vessels to the wilds of Northwest Washington to advance the cause of Potterdom and civilization.

As always,

our ultimate goal will be as the Commodore of the Potter Yachters, Rich McDevitt, has commanded,

HAVE FUN!

NOTE

The enclosed information and charts are for planning and reference only. The listed coordinates have not been verified and the magnetic headings are just to get you pointed in the general direction. The charts are compiled from a chart pack and not meant to be used for navigation. Instead, use a chart such as U.S. 18421, "Strait of San Juan de Fuca to Strait of Georgia Drayton Harbor," scale 1:80,000.

PROPOSED TRAVEL & SAIL PLAN

Day 1: Thursday, May 13, Rendezvous at Orland, CA at 0800. (Approximately 100 miles north of Sacramento on I-5.) Depart at 0800. Stay overnight around Eugene OR. Distance: 375 miles. Driving time: approx. 6+30 hours.

Day 2: Friday, May 14, Drive to Squalicum Harbor, Bellingham, WA. Distance: 375 miles. Driving Time: approx. 6+30 hours. Launch boats and stay overnight.

Day 3: Saturday, May 15, Depart Squalicum Harbor for Inati Bay. Time: 2+20.

Day 4: Sunday, May 16, Depart Inati Bay for Fossil Bay. Time: 4+26.

Day 5: Monday, May 17, Depart Fossil Bay for Reid Harbor. Time: 4+40

Day 6: Tuesday, May 18. Depart Reid Harbor for Deer Harbor. Time: 2+50.

Day 7: Wednesday, May 19, Depart Deer Harbor for West Sound Marina.
Time: 1+20

Day 8: Thursday, May 20, Depart West Sound Marina for Friday Harbor via Little Portion Store, Shaw Island. Time: 3+25.

***Day 9: Friday, May 21**, Open day at Friday Harbor.

Day 10: Saturday, May 22, Depart Friday Harbor for Spencer Spit Head.
Time: 3+00.

Day 11: Sunday, May 23, Depart Spencer Spit Head for Cypress Head.
Time: 3+00.

Day 12: Monday, May 24, Depart Cypress Head for Squalicum Harbor.
Time: 4+30.

Day 13: Tuesday, May 25, Depart Bellingham for points south as desired.

* The open day can be taken at any place enroute. Friday Harbor was identified only for planning and as it is a full service marina next to the town.

**DRIVING
DIRECTIONS**

**ORLAND, CA
TO BELLINGHAM, WA**

1. Take **I-5 NORTH** - go **465.9** mi (to southern edge of Portland, OR)
2. Take the **I-205 NORTH** exit - go **36.6** mi
3. Take the **I-5 NORTH** exit - go **247** mi
4. Take the **Meridian St.** exit (No. 256)
5. Turn left on **Meridian St.** - go **.4** mi
6. Turn right on **Squalicum Way** - go **2** mi
7. Proceed to the **Squalicum Harbor Area**

Total distance: 752 miles. Approx Driving Time: 13 hours.

Notes:

1. I-205 North bypasses the confusion when I-5 goes through Portland, OR. It takes a few more miles, but unless you've been through Portland on I-5, I strongly recommend you take I-205 North until it rejoins I-5 North.
2. The launch ramp is east of the Harbor Center Building at 1801 Roeder Ave. The cost is \$5.00 per launch and there is free public parking. Tel # 360-676-2500.

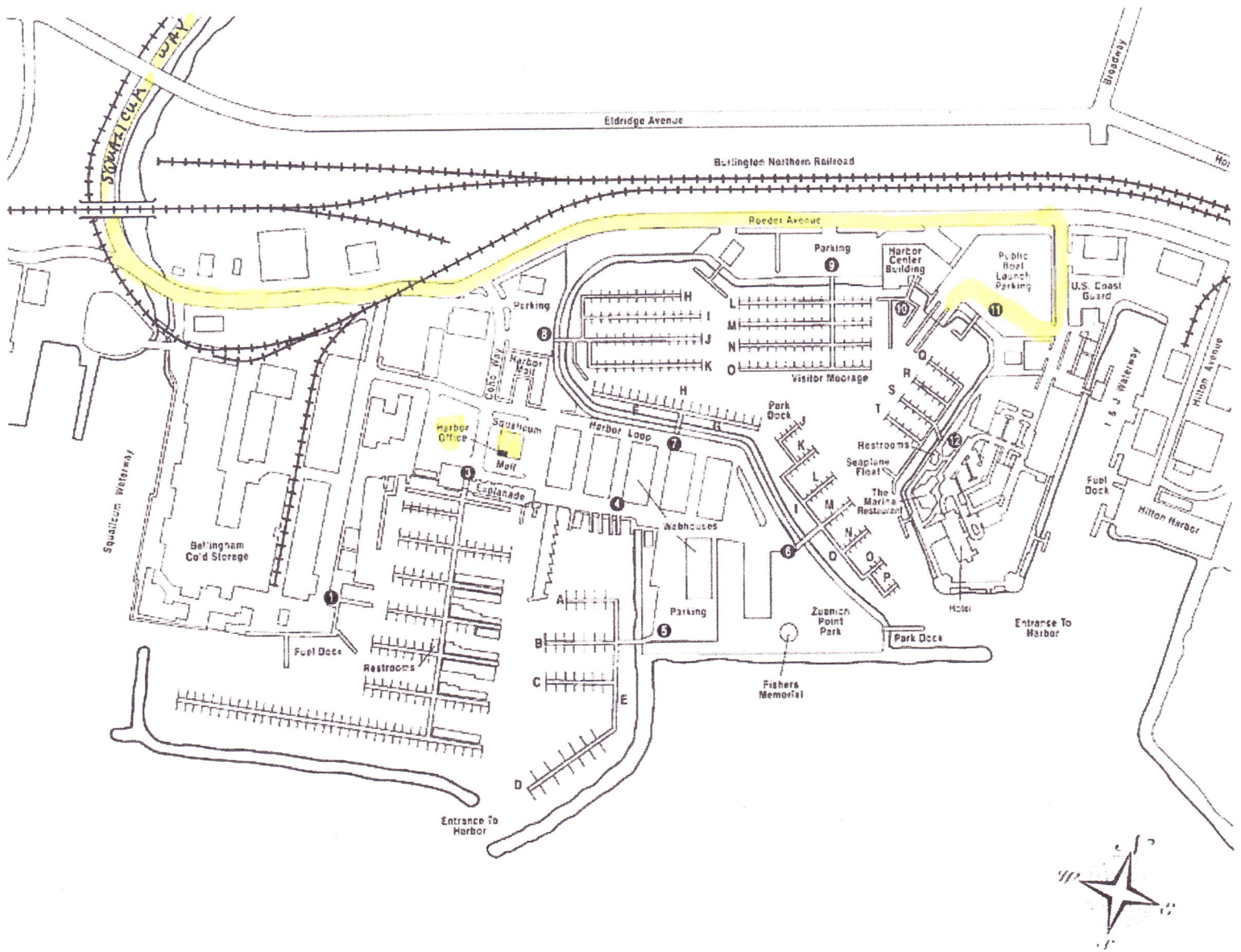
DRIVING DIRECTIONS

BELLINGHAM, WA TO ORLAND, CA

1. From Squawicum Harbor, go north on **Squawicum Way** for **2** mi
2. Turn left on **Meridian St.** - go **0.4** mi
3. Take **I-5 SOUTH** - go **247** mi. (north of Portland, OR)
4. Take the **I-205 SOUTH** exit – go **36.6** mi.
5. Take the **I-5 SOUTH** exit – go **465.9** mi. to Orland, CA

Total distance: 752 miles. Approx Driving Time: 13 hours.

SQUALICUM HARBOR



SQUALICUM HARBOR
Bellingham

Squalicum Harbor: 1801 Roeder Ave, Bellingham WA. 98225. Tel. # 360-676-2542.
Restrooms, shower, and laundry. Groceries, hardware, restaurant and lounge.

Launch: public launch ramp east of Harbor Center Building, 1801 Roeder Ave.
Cost: \$5.00 per launch. Mooring fees: \$.50 per foot, side ties, may have to raft up.

Park: free, but will need to get a long term parking pass from the Harbor Office in the west marina. Park in the long-term parking lot. Parking info: 360-676-2500.

Sailing notes:

1. See Chart # 1

2. Inati Bay Reef Buoy (white with orange) marks a rock near the north end of the entrance. Entrance to the bay is south of the buoy, not between the buoy and Lummi.

Navigation from Squalicum Harbor:

To:	Approximate		
	<u>Mag Hdg</u>	<u>Dist (nm)</u>	<u>Time (3 kts)</u>
Inati Bay	205	7	2+20

Coordinates:

Squalicum 48-45.0 N
Harbor 122-30.0 W

Inati Bay 48-40.4 N
 122-37.2 W

INATI BAY
Lummi Island

Inati Bay: Free. Maintained by Bellingham Yacht Club. Some picnic tables, fireplaces. No other facilities. Anchoring good in 3 to 4 fathoms. Mud bottom.

Sailing notes:

1. See Chart # 1
2. Inati Bay Reef Buoy (white with orange) marks a rock bear the north end of the entrance. Entrance to the bay is south of the buoy, not between the buoy and Lummi.
3. Gusty winds possible northeast of Orcas Island if wind out of south to west. The wind can go from 0 to 40 in seconds. Watch for gusts hitting the water.
4. Be aware of “overfalls” where a current runs over a shallow spot. Overfalls are a lot like standing river rapids. If sailing with the current, it is hard to see them until into them. If sailing against the current and you’re paying attention, you should be able to see them soon enough to avoid.

Navigation from Inati Bay:

To:	<u>Approximate</u> <u>Mag Hdg</u>	<u>Dist (nm)</u>	<u>Time (3 kts)</u>
T.P. 1	305	6.0	2+00
Fossil	245	<u>7.6</u>	<u>2+26</u>
Bay		13.6	4+26

Coordinates:

Inati Bay	48.40.4 N	T.P. 1	48-45.3 N
	122-37.2 W		122-42.0 W
Fossil Bay	48-44.8 N		
	122-53.5 W		

Possibles:

Matia Island State Park, Matia Island: Rolfe Cove at northwest end (Chart 1, red circle 2). Dock and mooring buoys, fees: \$8.00/\$5.00. No water, composting toilet. Might be worthwhile checking out.

48-44.9 N
122-50.7 W

FOSSIL BAY
Sucia Island Marine State Park

Fossil Bay: On the southern side of the island. Approach from the east. Two mooring docks and 16 buoys, fees \$8.00/\$5.00. Water, restrooms, camping, picnic areas, and trails are nearby. No other services.

Sailing notes:

1. See Chart # 2

2. Rocks and reef off northeast entrance to Echo Bay (north of Fossil Bay). Mud Bay (little bay off mid Fossil Bay) empty at low tide.

Navigation from Fossil Bay:

To:	<u>Approximate</u> <u>Mag Hdg</u>	<u>Dist</u>	<u>Time (3 kts)</u>
T.P. 2	210	10.4	3+28
Reid	270	<u>3.6</u>	<u>1+12</u>
Harbor		14.0	4+40

Coordinates:

Fossil Bay 48-44.8 N
122-53.5 W

T.P. 2 48-38.1 N
123-05.5 W

Reid Harbor 48-39.6 N
123-10.3 W

Possibles:

West Beach Resort, Orcas Island: (Chart 2, red circle 9) Gas, groceries. Tel # (360) 376-2240. From Fossil Bay, dist: 4.5 nm. Time 1+30.

48-41.3 N 122-57.5 W

Prevost Harbor Marine State Park: on north side of Stuart Island. Enter on north side of island. Do not enter on southeast side of Satellite Island. Dock and buoys. Fees: \$8.00/\$5.00. Water in campgrounds at Reid Harbor.

48-41.2 N 122-11.9 W

**REID HARBOR
PREVOST HARBOR
Stuart Island**

Reid Harbor: Good place to ride out a storm. Mooring dock and buoys.
Fees: \$8.00/\$5.00. Water and pit toilets on trail behind dinghy dock on north side of bay.
No food available.

Prevost Harbor: on north side of island. Enter from the north. Do not enter on southeast side of Satellite Island. Dock and mooring buoys. Fees: \$8.00/\$5.00. Water and pit toilets in campground at Reid Harbor, a short walk across the isthmus.

Sailing notes:

1. See Charts # 2 & 3
2. Rocks and tide rips along north side of Speiden Channel.
3. Reid Harbor = red circle #2
Roche Harbor = red circle #6
Jones Island = red circle #8
Deer Harbor = red circle #13

Navigation from Reid Harbor:

<u>To</u>	<u>Approximate Mag Hdg</u>	<u>Dist</u>	<u>Time (3 kts)</u>
Roche Harbor	155	3.0	1+00
Jones Island	090	6.0	2+00
Deer Harbor	090, 025	8.5	2+50

Coordinates:

Reid Harbor	48-39.6 N 123-10.3 W
Roche Harbor	48-36.7 N 123-09.2 W
Jones	48-37.0 N 123-03.3 W
Deer Harbor	48-37.1 N 123-00.2 W

DEER HARBOR
Orcas Island

Deer Harbor Marina: Tel # (360) 376-3037. Groceries, fuel, guest moorage, restrooms, showers. Fees: \$1.00 per foot. Restaurant and accommodations at Deer Harbor Resort, tel # (360) 376-4420.

Sailing notes:

1. See Chart # 3
2. Exercise care in Pole Pass. Currents flood NW and ebb SE.
3. Shoals south of Fawn Island.
4. Deer Harbor = red circle #13
West Sound = red circle #12
Friday Harbor = red circle #17

Navigation from Deer Harbor:

<u>To:</u>	<u>Approximate</u> <u>Mag Hdg</u>	<u>Dist</u>	<u>Time (3kts)</u>
West Sound	S-E-N	4.0	1+20
Friday Harbor	S	6.0	2+00

Coordinates:

Deer 48-37.1 N
Harbor 123-00.2 W

West 48-37.8 N
Sound 122-57.5 W

Friday 48-32.3 N
Harbor 123-01.0 W

**WEST SOUND MARINA
Orcas Island**

West Sound Marina: Tel # (360) 376-2314. Groceries, fuel, guest moorage, showers.
Fees: \$0.60 per foot. Café and B&B in town.

Sailing notes:

1. See Chart # 3
2. When entering Marina, keep west of Picnic Island.
3. Little Portion Store*, Shaw Island = red circle #15
Friday Harbor =red circle #17

Navigation from West Sound (via Little Portion):

<u>To:</u>	<u>Approximate Mag Hdg</u>	<u>Dist (nm)</u>	<u>Time (3kts)</u>
Little Portion	SE	3.0	1+00
Friday Harbor	070, 195, 245	7.5	2+30

Coordinates:

West 48-37.8 N
Sound 122-57.4 W

Little 48-35.1 N
Portion 122-54.7 W

Friday 48-32.3 N
Harbor 123-01.0 W

* Little Portion Store is located at the Shaw Island Ferry landing and is run by the Benedictine Sisters. There is a fully stocked grocery store and gift store. Dock and beach. Closed Sundays. Tel # (360) 468-2288.

FRIDAY HARBOR
San Juan Island

Friday Harbor: Tel # (360) 378-2688. Full service marina, all services, ferry, nearby accommodations, customs office, lots to do. Fees: \$0.65 per foot.

Sailing notes:
See Chart # 4

Navigation from Friday Harbor:

To:	Approximate <u>Mag Hdg</u>	<u>Dist</u>	<u>Time (3kts)</u>
Spencer Spit	065, 030, 105, 145	9.1	3+02

Coordinates:

Friday Harbor 48-32.3 N
123-01.0 W

Spencer Spit 48-32.3 N
122-51.2 W

Cypress Head 48-34.1 N
122-40.2 W

Rosario 48-38.8 N
122-52.0 W

Possibles from Friday Harbor to:

Cypress Head 065, 025 16.7 5+54
050, 120

or

Rosairo 065, 025, 10.7 3+34
325

SPENCER SPIT
Lopez Island

Spencer Spit State Park: Tel # (360) 468-2251. Fees: \$5.00. Restrooms, water, picnic tables. Buoys + anchoring space.

Sailing notes:

1. See Chart # 4
2. Spencer Spit State Park = red circle #14
Cypress Head = red circle #18
3. **Stay clear of Reef Point** on southern tip Cypress Island.

Navigation from Spencer Spit:

To:	<u>Approximate</u> <u>Mag Hdg</u>	<u>Dist (nm)</u>	<u>Time (3 kts)</u>
Cypress Head	085, 070, 355	9.0	3+00

Coordinates:

Spencer 48-32.3 N
Spit 122-51.2 W

Cypress 48-34.1 N
Head 122-40.2 W

Possibles:

1. Pelican Beach Recreation Site 2.3 nm north of Cypress Head (red circle #1). No fees, picnic tables, mooring buoys. An open beach with breakers so need to use buoys.

48-36.0 N 122-42.0 W

2. Bypass Cypress Island and head for Anacortes. Pull out at Cap Sante (tel # 360-293-0694). Would have to use sling launch ramp, preposition a car **or** hire a van to retrieve vehicles at Bellingham. Distance from Spencer Spit to Cap Sante 12 nm. Time 4+00. (See chart # 5)

48-30.6 N 122-35.9 W

CYPRESS HEAD
Cypress Island

Cypress Head Recreation Site: no fees, mooring buoys, picnic tables, restroom. No water. Use north cove but beware of strong currents with an easterly set. Use buoys, anchoring not recommended. Check Tide tables.

1. See Charts # 4 & # 1
2. Cypress Head Rec Site = red circle # 18
Squalicum Harbor = red circle # 2
3. Depart early morning on May 24 because of currents in Rosario Strait.
4. Eliza Rock at T.P. # 4

Navigation from Cypress Head:

<u>To:</u>	<u>Mag Hdg</u>	<u>Dist (nm)</u>	<u>Time (3 kts)</u>
T.P. 3	315	1.0	0+20
T.P. 4	030	5.7	1+54
SqIm	000	<u>6.8</u>	<u>2+16</u>
Harbor		13 .5	4+30

Coordinates:

Cypress 48-34.1 N
Head 122-40.2W

T.P. 3 48-35.0 N
 122-40.8 W

T.P. 4 48-38.6 N
 122-34.1 W

SqIm 48-45.0 N
Harbor 122-30.0 W

Possibility: Head for Anacortes and pull out at Cap Sante (tel # 360-293-0694).
Distance: 6.0 nm. Time: 2 hrs. (See Chart # 5)

48-30.6 N 122-35.9 W

Rosario Strait, Washington

Predicted Tidal Current

May, 2004

Flood Direction, 335 True.

Ebb (-) Direction, 175 True.

NOAA, National Ocean Service

Slack		Maximum		Slack		Maximum		Slack		Maximum		Slack	
Water		Current		Water		Current		Water		Current		Water	
Day	Time	Time	Veloc	Time	Time	Veloc	Time	Time	Veloc	Time	Time	Veloc	Time
Time	h.m.	h.m.	knots	h.m.	h.m.	knots	h.m.	h.m.	knots	h.m.	h.m.	knots	h.m.
h.m.	knots												
1		30	1.2	340	733	-2.0	1137	1325	0.7	1603	1938	-1.3	2256
2		112	1.2	359	809	-2.4	1200	1409	1.2	1721	2037	-1.3	2343
3		151	1.2	418	844	-2.7	1228	1450	1.7	1829	2128	-1.4	
4	27	230	1.1	439	919	-3.1	1300	1533	2.1	1928	2215	-1.4	
5	110	309	1.0	505	953	-3.3	1335	1619	2.4	2022	2259	-1.3	
6	155	351	0.9	535	1027	-3.5	1414	1706	2.6	2112	2344	-1.3	
7	246	437	0.7	610	1103	-3.5	1458	1756	2.6	2203			
8		33	-1.1	351	527	0.5	647	1141	-3.3	1547	1846	2.5	2255
9		133	-1.0	510	622	0.3	725	1226	-2.9	1641	1935	2.3	2350
10		243	-1.1		719	0.1		1327	-2.4	1738	2026	2.0	
11	46	356	-1.2		821	0.0		1457	-1.9	1838	2119	1.7	
12	137	458	-1.5		932	-0.1		1618	-1.6	1941	2218	1.5	
13	218	550	-1.9		1214	0.1		1729	-1.4	2046	2323	1.3	
14	253	638	-2.2	1056	1329	0.6	1533	1838	-1.2	2151			
15		20	1.1	322	722	-2.5	1128	1417	1.1	1701	1948	-1.1	2252
16		103	1.0	347	803	-2.7	1200	1456	1.4	1811	2053	-1.1	2346
17		139	0.9	408	842	-2.9	1233	1531	1.7	1909	2144	-1.1	
18	35	215	0.7	424	918	-3.0	1305	1600	1.8	1956	2225	-1.1	
19	123	252	0.6	438	952	-3.0	1336	1625	1.9	2038	2303	-1.1	
20	213	330	0.4	453	1023	-2.9	1408	1656	2.0	2115	2340	-1.1	
21	310	411	0.3	512	1050	-2.8	1441	1732	2.0	2152			
22		21	-1.0		455	0.1		1113	-2.6	1515	1811	2.0	2229
23		109	-0.9		543	-0.1		1133	-2.4	1552	1852	2.0	2308
24		206	-0.9		633	-0.2		1156	-2.2	1631	1934	1.9	2348
25		310	-1.0		725	-0.3		1230	-1.9	1713	2016	1.8	
26	26	405	-1.2		820	-0.4		1320	-1.5	1759	2101	1.6	
27	59	447	-1.4		922	-0.3		1522	-1.2	1848	2149	1.4	
28	126	524	-1.7		1035	-0.1		1651	-1.0	1943	2240	1.2	
29	149	601	-2.1	1031	1158	0.4	1438	1759	-0.8	2048	2332	1.1	
30	211	638	-2.4	1054	1305	0.9	1624	1907	-0.8	2200			
31		21	1.0	233	717	-2.8	1124	1352	1.5	1744	2014	-0.8	2305

All times listed are in Local Time, and all speeds are in knots.

San Juan Channel (south entrance), Washington

Predicted Tidal Current
 Flood Direction, 10 True.
 NOAA, National Ocean Service

May, 2004
 Ebb (-) Direction, 180 True.

Slack		Maximum		Slack		Maximum		Slack		Maximum		Slack	
Water		Current		Water		Current		Water		Current		Water	
Day	Time	Time	Veloc	Time	Time	Veloc	Time	Time	Veloc	Time	Time	Veloc	Time
Time	h.m.	h.m.	knots	h.m.	h.m.	knots	h.m.	h.m.	knots	h.m.	h.m.	knots	h.m.
h.m.	knots												
1	304	615	-3.1	947	1230	2.6	1537	1828	-2.4	2133			
2		31	3.0	334	652	-3.5	1017	1311	3.3	1633	1922	-2.6	2226
3		111	2.8	404	729	-3.8	1050	1353	3.9	1728	2014	-2.7	2317
4		152	2.5	434	807	-4.1	1125	1438	4.4	1823	2104	-2.8	
5	11	236	2.1	506	846	-4.2	1203	1526	4.6	1918	2154	-2.7	
6	109	325	1.7	541	927	-4.1	1246	1618	4.7	2014	2247	-2.5	
7	215	418	1.3	619	1011	-3.9	1335	1713	4.6	2113	2349	-2.2	
8	329	515	0.9	702	1101	-3.4	1430	1809	4.4	2215			
9		106	-2.1	446	617	0.7	755	1202	-2.9	1531	1907	4.0	2319
10		227	-2.2	559	726	0.6	910	1318	-2.4	1636	2010	3.6	
11	19	331	-2.4	703	850	0.7	1103	1439	-2.1	1744	2118	3.3	
12	109	424	-2.7	756	1022	1.2	1251	1554	-2.0	1851	2224	3.0	
13	152	511	-2.9	841	1128	1.8	1412	1703	-1.9	1957	2317	2.8	
14	228	552	-3.1	919	1216	2.4	1518	1808	-1.9	2058			
15		0	2.6	300	629	-3.3	954	1256	2.9	1616	1907	-1.9	2152
16		37	2.3	328	702	-3.4	1025	1331	3.3	1708	1956	-1.9	2242
17		110	1.9	353	732	-3.4	1055	1405	3.5	1755	2038	-1.9	2328
18		144	1.6	416	801	-3.4	1124	1438	3.6	1837	2114	-1.9	
19	14	219	1.3	437	830	-3.3	1153	1514	3.7	1917	2149	-1.8	
20	102	256	1.0	459	900	-3.2	1222	1552	3.7	1957	2225	-1.8	
21	155	338	0.7	524	932	-3.0	1253	1632	3.6	2037	2305	-1.6	
22	255	424	0.5	552	1007	-2.8	1328	1714	3.5	2120	2353	-1.6	
23	401	514	0.3	626	1045	-2.5	1408	1758	3.4	2205			
24		52	-1.6	504	606	0.3	708	1133	-2.1	1453	1843	3.2	2252
25		154	-1.7	559	701	0.3	808	1234	-1.8	1543	1930	3.1	2337
26		245	-1.9	644	804	0.4	940	1345	-1.6	1639	2022	2.9	
27	19	327	-2.3	722	914	0.8	1142	1454	-1.6	1740	2118	2.7	
28	56	406	-2.7	756	1022	1.4	1318	1557	-1.6	1846	2213	2.6	
29	130	445	-3.1	830	1117	2.2	1429	1700	-1.8	1957	2305	2.5	
30	202	525	-3.4	904	1204	3.1	1532	1805	-1.9	2106	2353	2.3	
31	234	607	-3.8	941	1249	3.9	1631	1908	-2.2	2210			

Tides for Bellingham starting with May 14, 2004.

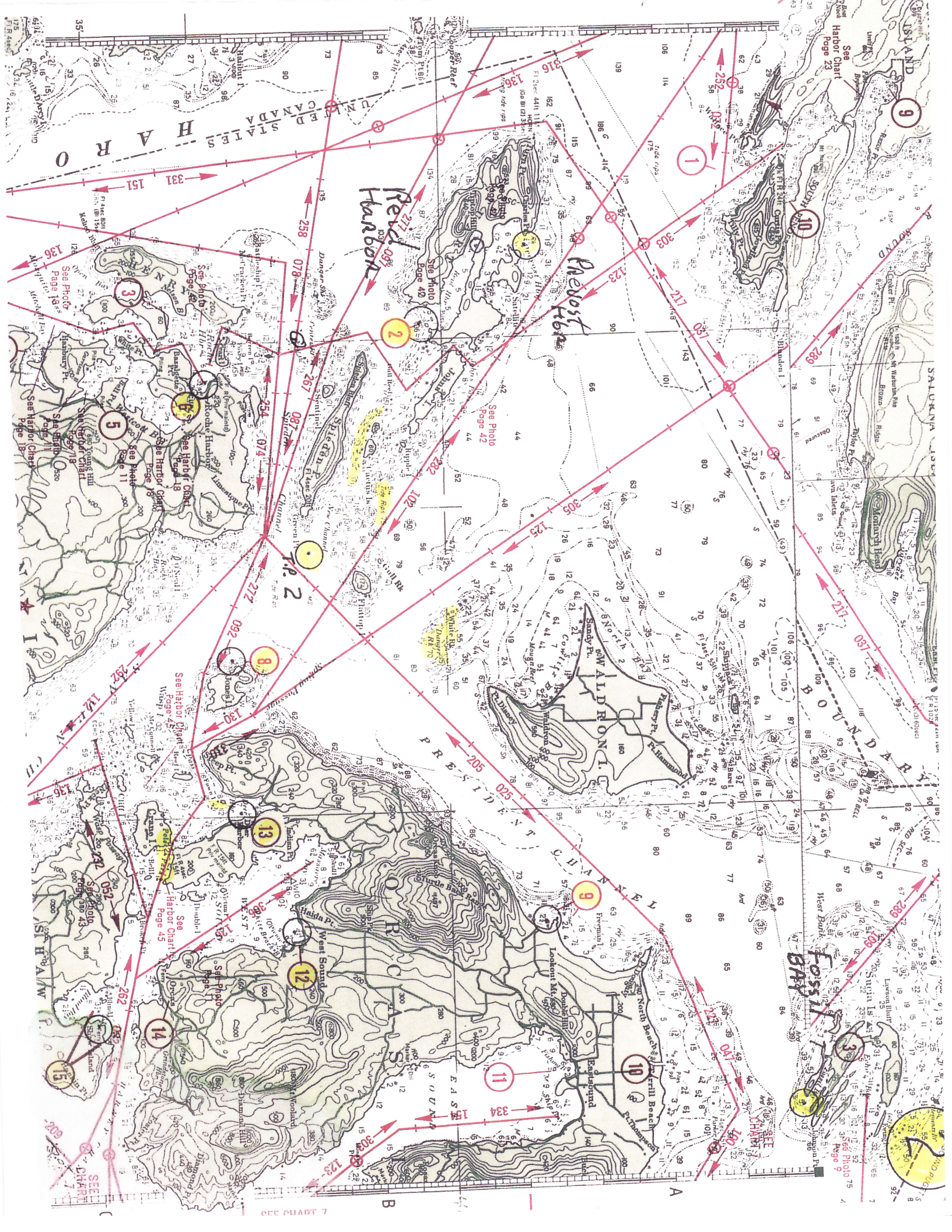
Day	High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible	
F	14	High	2:44 AM	8.5	5:29 AM	Rise	4:01 AM	24
	14	Low	9:49 AM	2.5	8:44 PM	Set	4:07 PM	
	14	High	3:13 PM	5.7				
	14	Low	8:46 PM	2.8				
Sa	15	High	3:12 AM	8.3	5:28 AM	Rise	4:15 AM	16
	15	Low	10:19 AM	1.5	8:45 PM	Set	5:17 PM	
	15	High	4:27 PM	6.2				
	15	Low	9:37 PM	3.7				
Su	16	High	3:35 AM	8.1	5:26 AM	Rise	4:30 AM	9
	16	Low	10:45 AM	0.5	8:47 PM	Set	6:27 PM	
	16	High	5:28 PM	6.8				
	16	Low	10:25 PM	4.6				
M	17	High	3:52 AM	7.8	5:25 AM	Rise	4:46 AM	4
	17	Low	11:10 AM	-0.3	8:48 PM	Set	7:37 PM	
	17	High	6:21 PM	7.3				
	17	Low	11:11 PM	5.2				
Tu	18	High	4:06 AM	7.6	5:24 AM	Rise	5:04 AM	1
	18	Low	11:36 AM	-1.0	8:49 PM	Set	8:47 PM	
	18	High	7:07 PM	7.8				
	18	Low	11:57 PM	5.8				
W	19	High	4:18 AM	7.5	5:23 AM	Rise	5:27 AM	0
	19	Low	12:04 PM	-1.6	8:51 PM	Set	9:56 PM	
	19	High	7:50 PM	8.1				
Th	20	Low	12:46 AM	6.2	5:22 AM	Rise	5:56 AM	0
	20	High	4:33 AM	7.3	8:52 PM	Set	11:01 PM	
	20	Low	12:35 PM	-1.8				
	20	High	8:32 PM	8.3				
F	21	Low	1:39 AM	6.5	5:21 AM	Rise	6:34 AM	2
	21	High	4:51 AM	7.2	8:53 PM	Set	11:58 PM	
	21	Low	1:09 PM	-1.8				
	21	High	9:14 PM	8.4				
Sa	22	Low	2:43 AM	6.6	5:20 AM	Rise	7:22 AM	6
	22	High	5:11 AM	7.0	8:54 PM			
	22	Low	1:47 PM	-1.7				
	22	High	9:59 PM	8.4				
Su	23	Low	2:29 PM	-1.5	5:18 AM	Set	12:45 AM	12
	23	High	10:45 PM	8.3	8:56 PM	Rise	8:19 AM	
M	24	Low	3:14 PM	-1.0	5:18 AM	Set	1:22 AM	19
	24	High	11:32 PM	8.3	8:57 PM	Rise	9:25 AM	
Tu	25	Low	4:02 PM	-0.4	5:17 AM	Set	1:51 AM	27
	25				8:58 PM	Rise	10:34 AM	
W	26	High	12:14 AM	8.2	5:16 AM	Set	2:14 AM	36
	26	Low	4:54 PM	0.3	8:59 PM	Rise	11:47 AM	
	26		0:00 00	4.3				

Tides for Orcas, Orcas Island starting with May 14, 2004.

Day	High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible	
F	14	High	2:39 AM	7.7	5:31 AM	Rise	4:03 AM	24
	14	Low	9:34 AM	2.3	8:45 PM	Set	4:09 PM	
	14	High	3:08 PM	5.2				
	14	Low	8:31 PM	2.6				
Sa	15	High	3:07 AM	7.6	5:30 AM	Rise	4:17 AM	16
	15	Low	10:04 AM	1.4	8:47 PM	Set	5:19 PM	
	15	High	4:22 PM	5.7				
	15	Low	9:22 PM	3.4				
Su	16	High	3:30 AM	7.4	5:29 AM	Rise	4:32 AM	9
	16	Low	10:30 AM	0.5	8:48 PM	Set	6:29 PM	
	16	High	5:23 PM	6.2				
	16	Low	10:10 PM	4.2				
M	17	High	3:47 AM	7.1	5:28 AM	Rise	4:48 AM	4
	17	Low	10:55 AM	-0.3	8:49 PM	Set	7:39 PM	
	17	High	6:16 PM	6.7				
	17	Low	10:56 PM	4.9				
Tu	18	High	4:01 AM	6.9	5:26 AM	Rise	5:07 AM	1
	18	Low	11:21 AM	-0.9	8:51 PM	Set	8:49 PM	
	18	High	7:02 PM	7.1				
	18	Low	11:42 PM	5.4				
W	19	High	4:13 AM	6.8	5:25 AM	Rise	5:30 AM	0
	19	Low	11:49 AM	-1.4	8:52 PM	Set	9:57 PM	
	19	High	7:45 PM	7.4				
Th	20	Low	12:31 AM	5.8	5:24 AM	Rise	5:59 AM	0
	20	High	4:28 AM	6.7	8:53 PM	Set	11:02 PM	
	20	Low	12:20 PM	-1.7				
	20	High	8:27 PM	7.6				
F	21	Low	1:24 AM	6.0	5:23 AM	Rise	6:37 AM	2
	21	High	4:46 AM	6.6	8:54 PM	Set	11:59 PM	
	21	Low	12:54 PM	-1.7				
	21	High	9:09 PM	7.7				
Sa	22	Low	2:28 AM	6.1	5:22 AM	Rise	7:25 AM	6
	22	High	5:06 AM	6.4	8:56 PM			
	22	Low	1:32 PM	-1.6				
	22	High	9:54 PM	7.7				
Su	23	Low	2:14 PM	-1.4	5:21 AM	Set	12:46 AM	12
	23	High	10:40 PM	7.6	8:57 PM	Rise	8:22 AM	
M	24	Low	2:59 PM	-0.9	5:20 AM	Set	1:23 AM	19
	24	High	11:27 PM	7.6	8:58 PM	Rise	9:27 AM	
Tu	25	Low	3:47 PM	-0.4	5:19 AM	Set	1:52 AM	27
	25				8:59 PM	Rise	10:37 AM	
W	26	High	12:09 AM	7.5	5:18 AM	Set	2:15 AM	36
	26	Low	4:39 PM	0.3	9:00 PM	Rise	11:49 AM	
	26		0:00 00	3.9				

Tides for Friday Harbor, San Juan Island starting with May 14, 2004.

Day	High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible	
F	14	High	2:34 AM	7.8	5:32 AM	Rise	4:03 AM	24
	14	Low	9:28 AM	2.5	8:46 PM	Set	4:09 PM	
	14	High	3:03 PM	5.3				
	14	Low	8:25 PM	2.8				
Sa	15	High	3:02 AM	7.6	5:31 AM	Rise	4:18 AM	16
	15	Low	9:58 AM	1.4	8:47 PM	Set	5:19 PM	
	15	High	4:17 PM	5.7				
	15	Low	9:16 PM	3.6				
Su	16	High	3:25 AM	7.5	5:29 AM	Rise	4:32 AM	9
	16	Low	10:24 AM	0.5	8:48 PM	Set	6:29 PM	
	16	High	5:18 PM	6.3				
	16	Low	10:04 PM	4.5				
M	17	High	3:42 AM	7.2	5:28 AM	Rise	4:48 AM	4
	17	Low	10:49 AM	-0.3	8:49 PM	Set	7:39 PM	
	17	High	6:11 PM	6.7				
	17	Low	10:50 PM	5.1				
Tu	18	High	3:56 AM	7.0	5:27 AM	Rise	5:07 AM	1
	18	Low	11:15 AM	-0.9	8:51 PM	Set	8:49 PM	
	18	High	6:57 PM	7.2				
	18	Low	11:36 PM	5.7				
W	19	High	4:08 AM	6.9	5:26 AM	Rise	5:30 AM	0
	19	Low	11:43 AM	-1.5	8:52 PM	Set	9:57 PM	
	19	High	7:40 PM	7.5				
Th	20	Low	12:25 AM	6.1	5:25 AM	Rise	6:00 AM	0
	20	High	4:23 AM	6.7	8:53 PM	Set	11:02 PM	
	20	Low	12:14 PM	-1.8				
	20	High	8:22 PM	7.6				
F	21	Low	1:18 AM	6.4	5:23 AM	Rise	6:37 AM	2
	21	High	4:41 AM	6.6	8:54 PM	Set	11:59 PM	
	21	Low	12:48 PM	-1.8				
	21	High	9:04 PM	7.7				
Sa	22	Low	2:22 AM	6.5	5:22 AM	Rise	7:25 AM	6
	22	High	5:01 AM	6.5	8:56 PM			
	22	Low	1:26 PM	-1.7				
	22	High	9:49 PM	7.7				
Su	23	Low	2:08 PM	-1.4	5:21 AM	Set	12:46 AM	12
	23	High	10:35 PM	7.6	8:57 PM	Rise	8:23 AM	
M	24	Low	2:53 PM	-0.9	5:20 AM	Set	1:23 AM	19
	24	High	11:22 PM	7.6	8:58 PM	Rise	9:28 AM	
Tu	25	Low	3:41 PM	-0.4	5:19 AM	Set	1:52 AM	27
	25				8:59 PM	Rise	10:37 AM	
W	26	High	12:04 AM	7.6	5:19 AM	Set	2:15 AM	36
	26	Low	4:33 PM	0.3	9:00 PM	Rise	11:49 AM	
	26		0:00 00	3.9				



UNITED STATES HARBOR CHART

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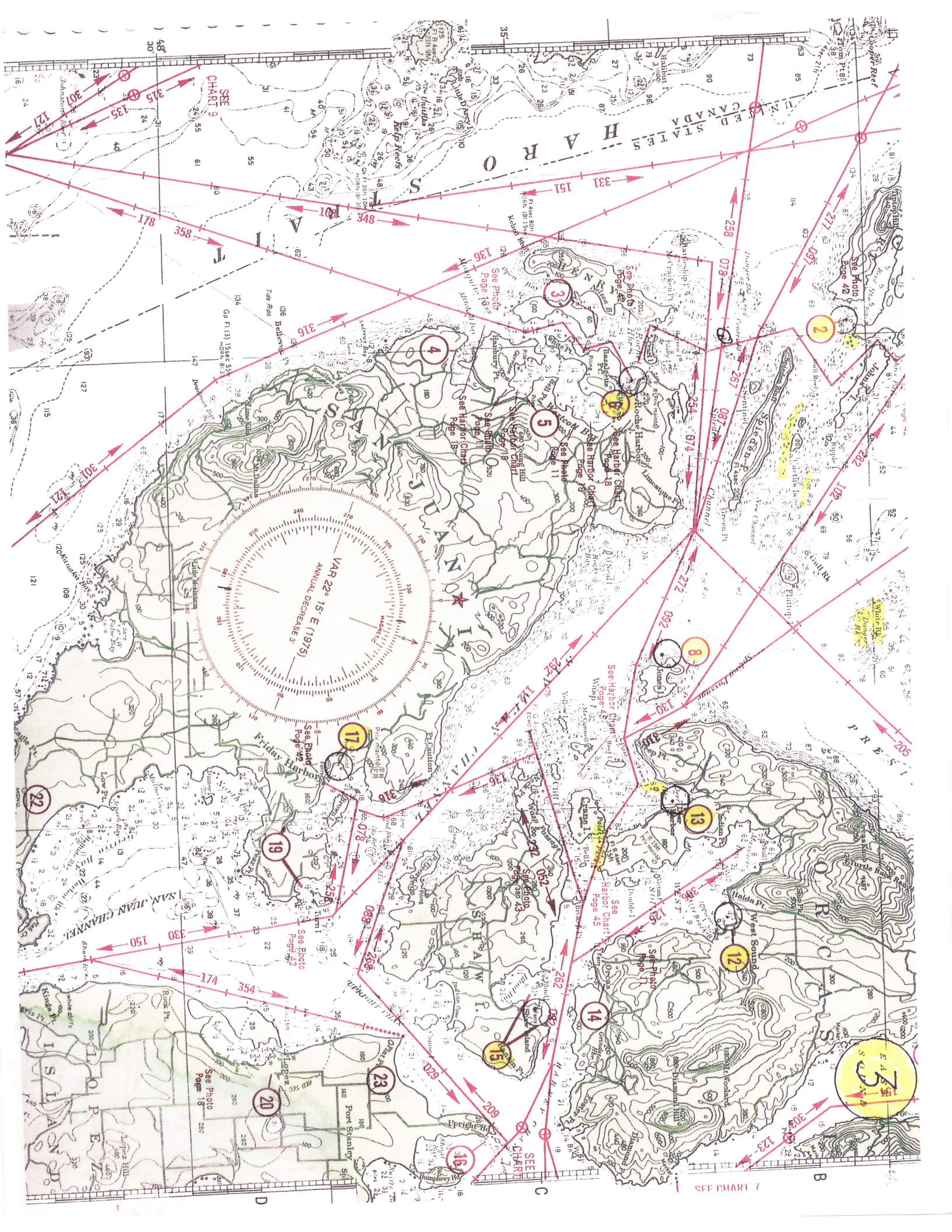
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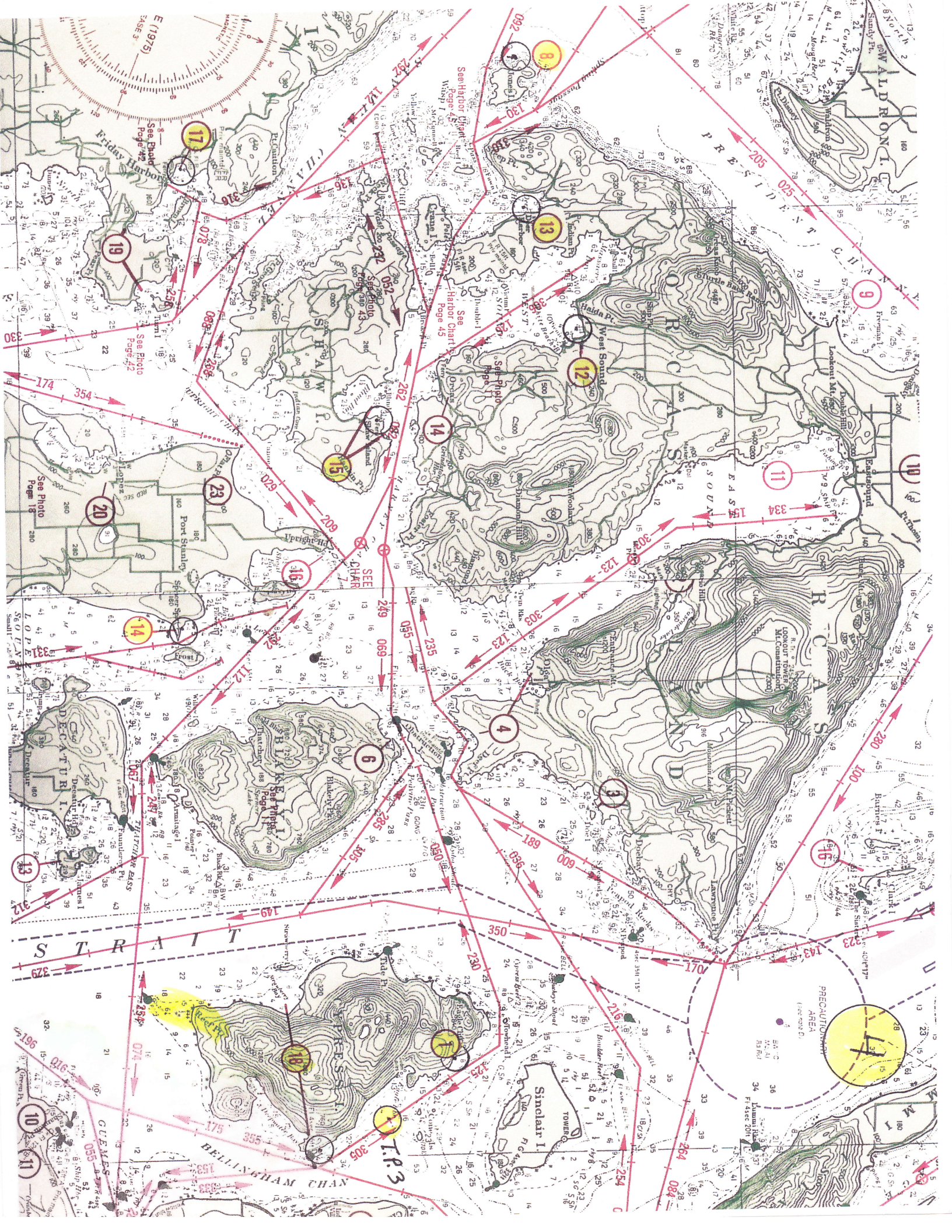
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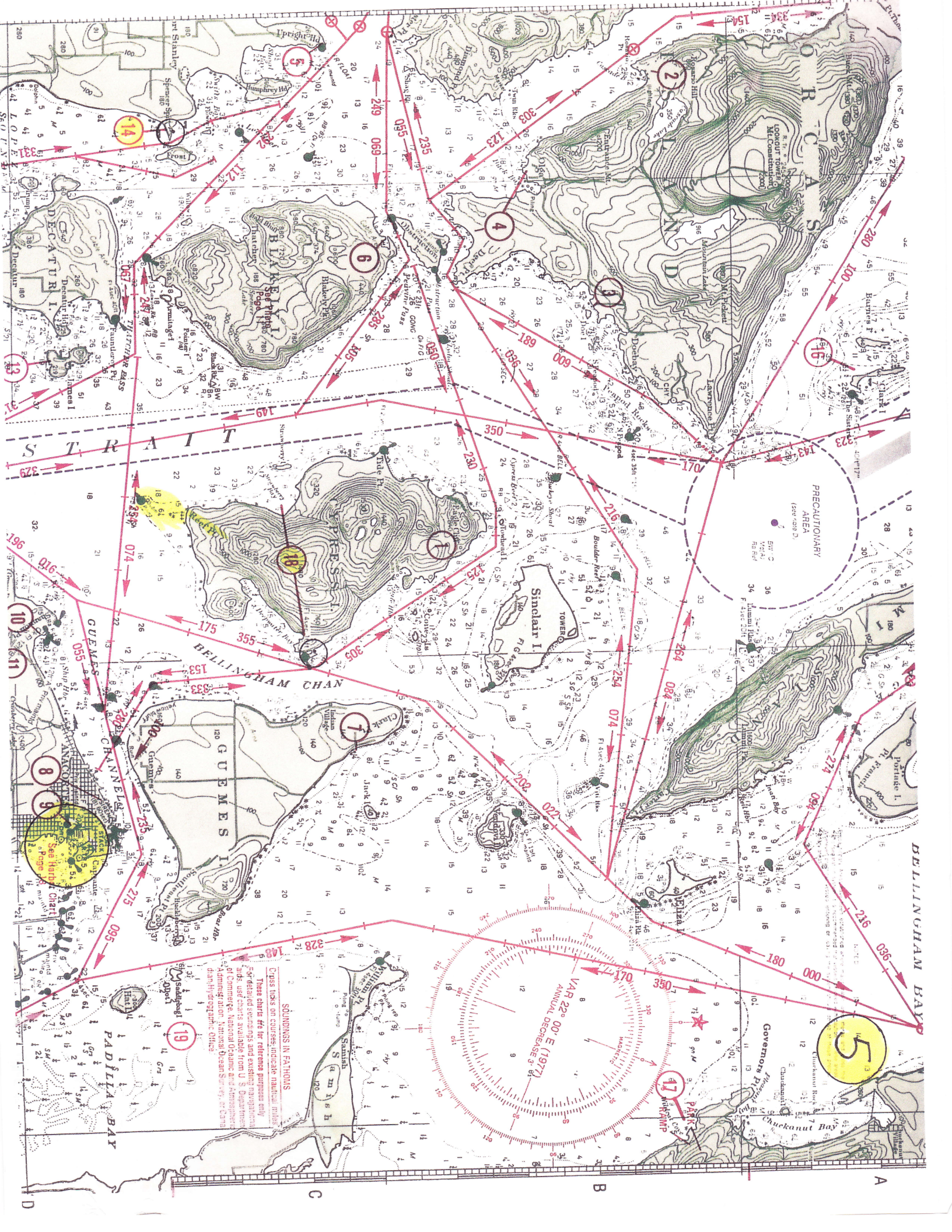
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SOUNDINGS IN FATHOMS
 Cross lines on courses indicate magnetic miles.
 These charts are for reference purposes only.
 For detailed soundings and existing regulations
 and use charts available from U.S. Department
 of Commerce, National Oceanic and Atmospheric
 Administration, National Ocean Service, or Cana-
 dian Hydrographic Office.

