







**D019NG**

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**B**  Occ

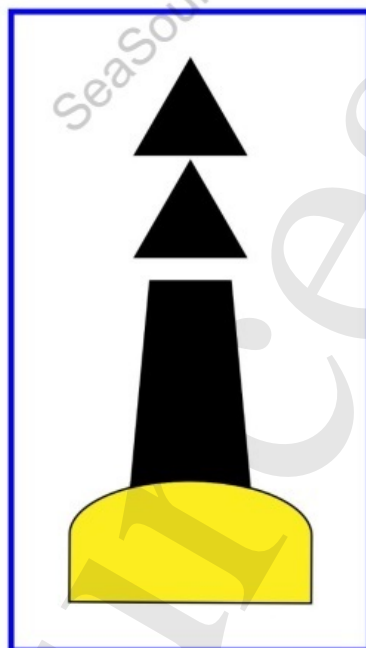
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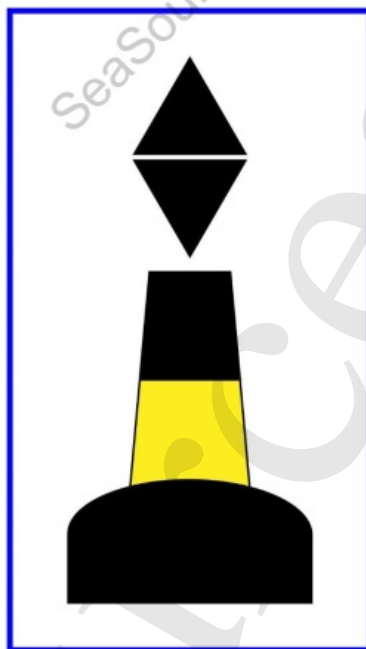
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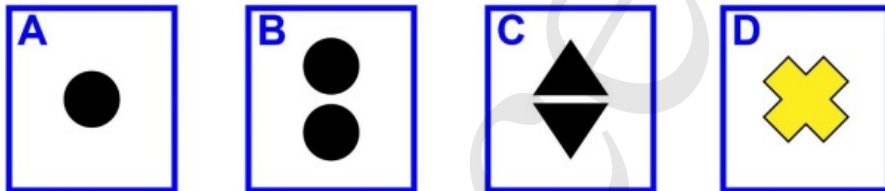


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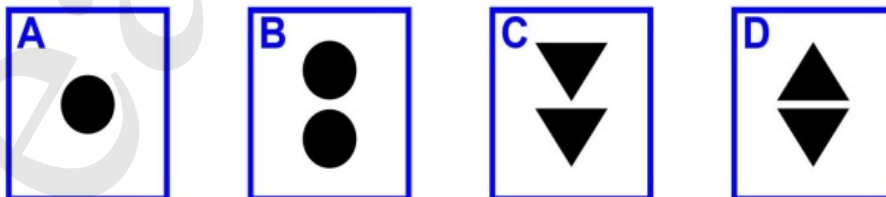
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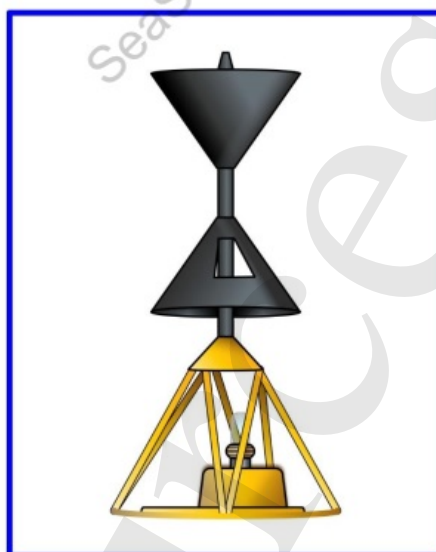
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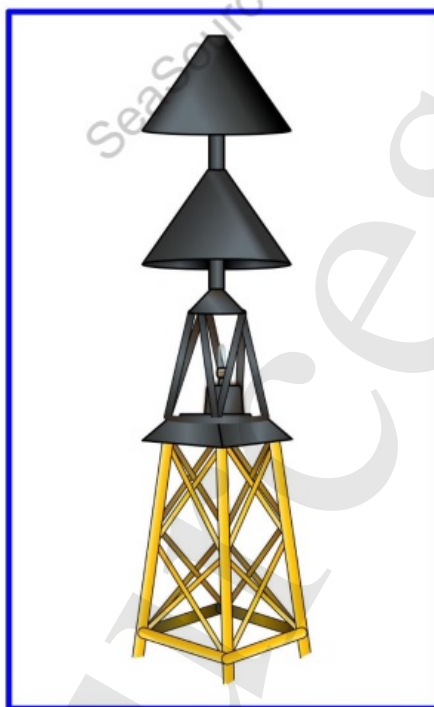
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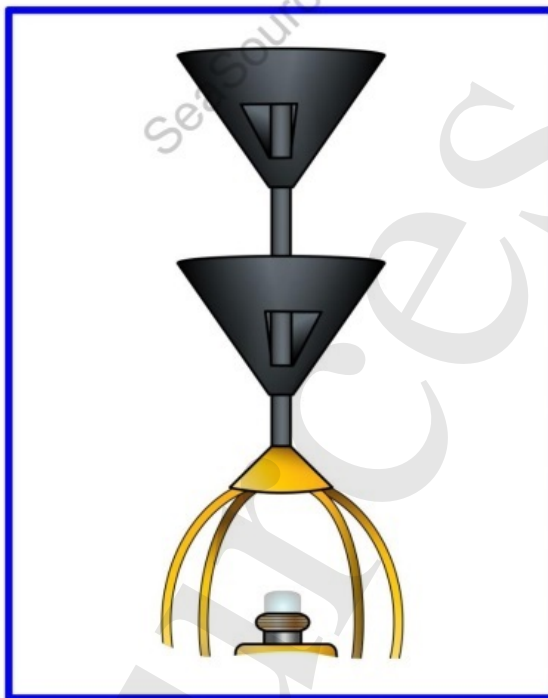
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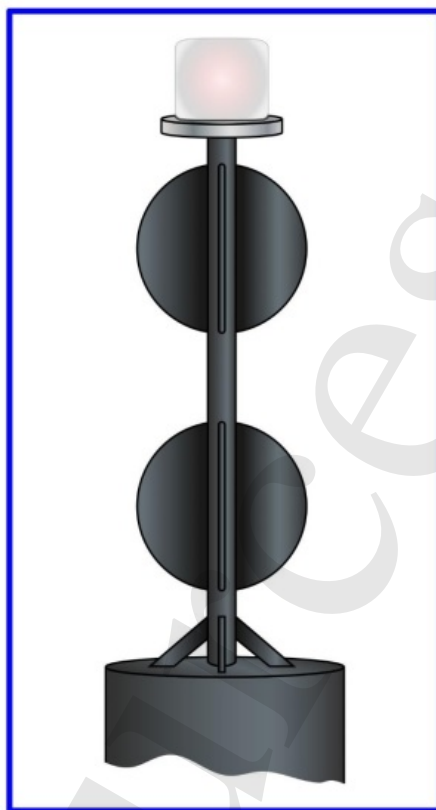
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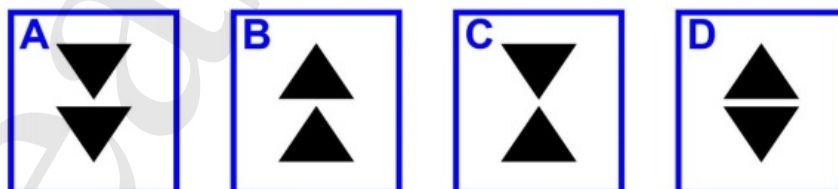


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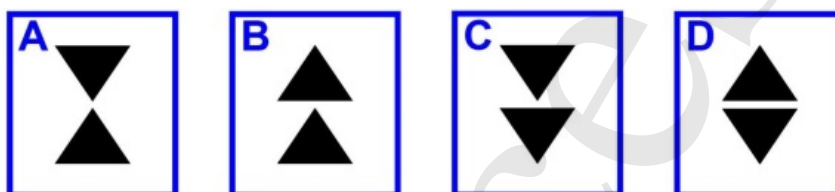
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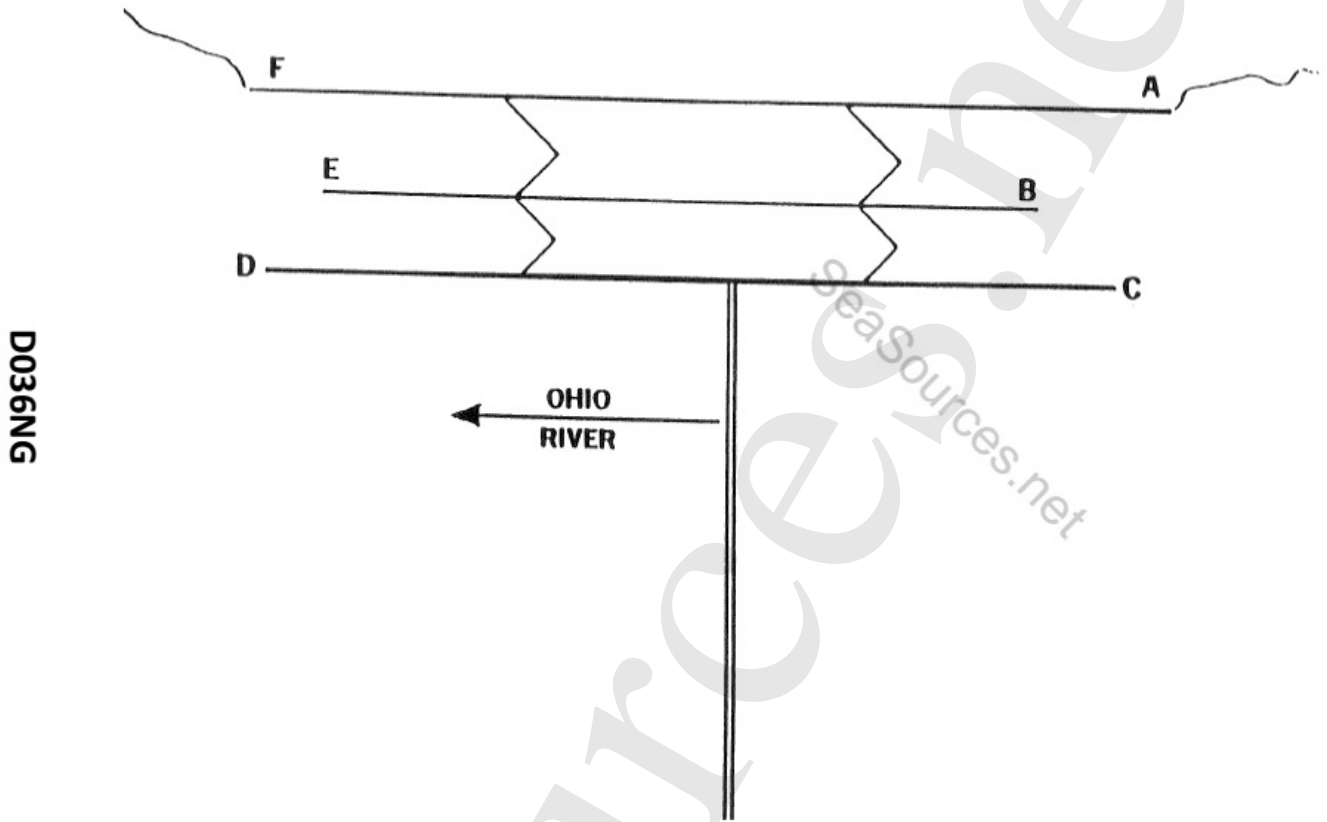
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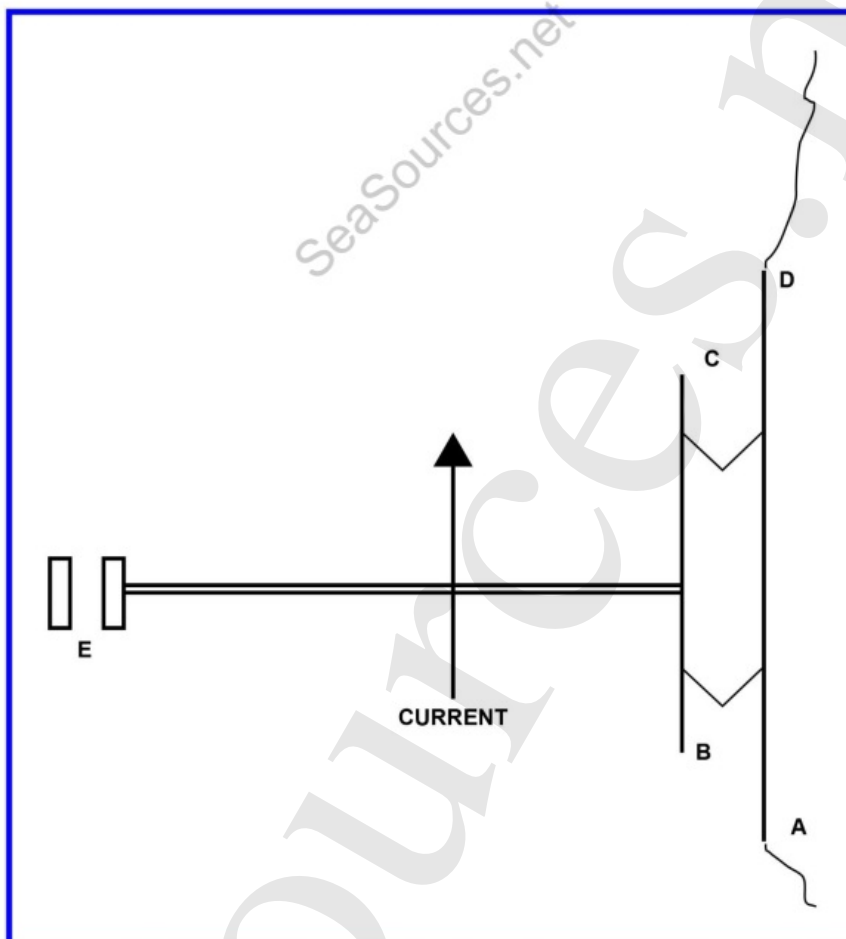


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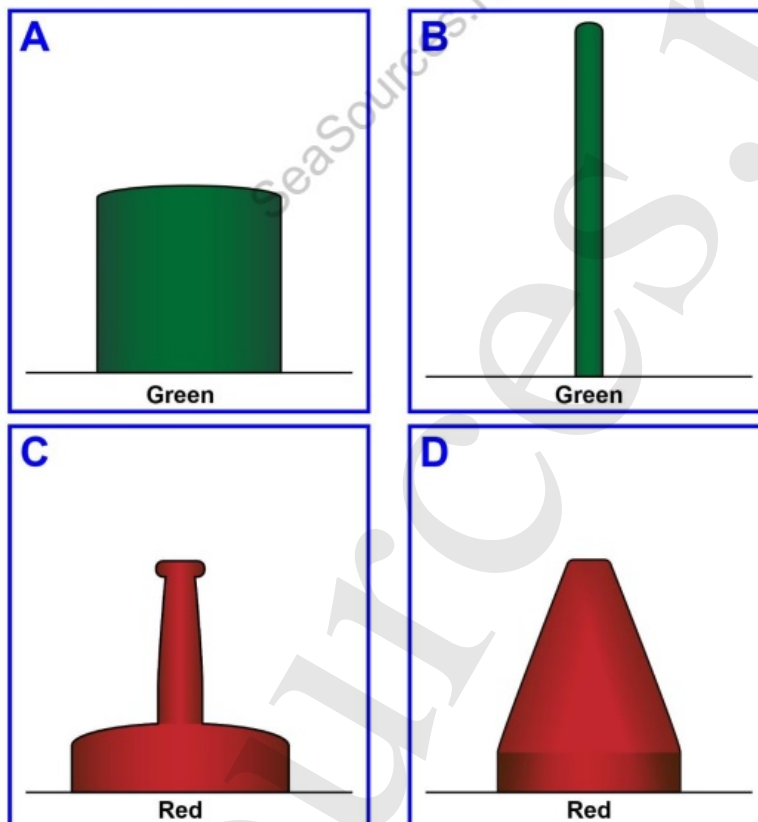
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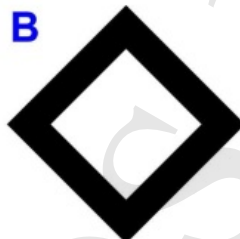
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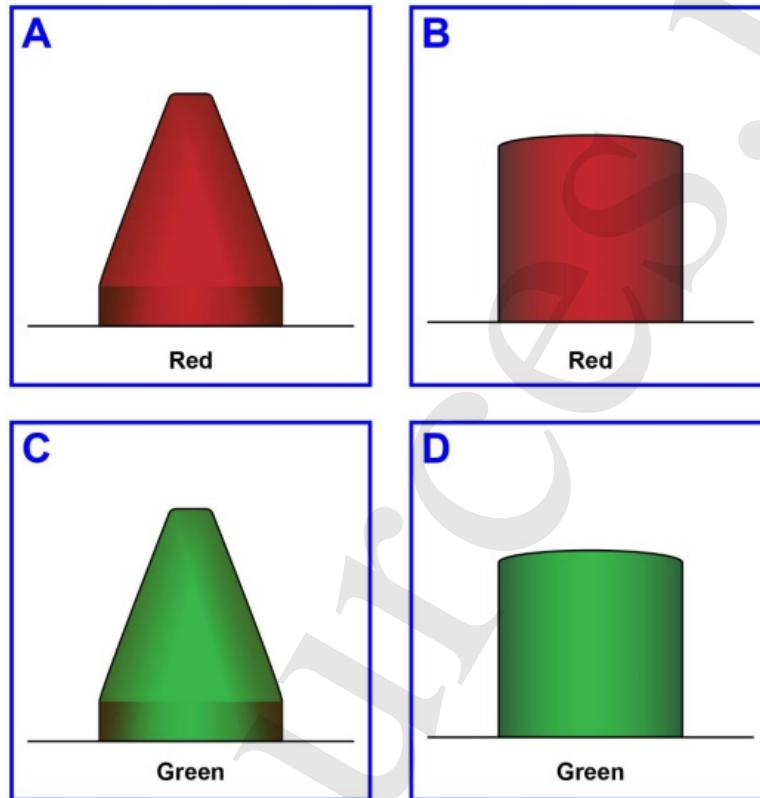


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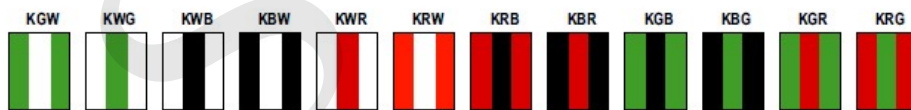
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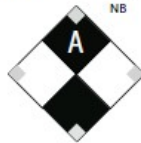
RANGE DAYBOARDS MAY BE LETTERED



dayboard

DAYBOARDS HAVING NO LATERAL SIGNIFICANCE

MAY BE LETTERED  WHITE LIGHT ONLY  
 NB



dayboardnb



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Height		Distance		Height		Distance		Height		Distance	
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10	3.1	3.7	4.3	75	22.9	10.1	11.7	300	91.4	20.3	23.3
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30	9.1	6.4	7.4	95	29.0	11.4	13.1	500	152.4	26.2	30.1
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40	12.2	7.4	8.5	110	33.5	12.3	14.1	600	182.9	28.7	33.0
45	13.7	7.8	9.0	120	36.6	12.8	14.7	650	198.1	29.8	34.3
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60	18.3	9.1	10.4	150	45.7	14.3	16.5	900	274.3	35.1	40.4
65	19.8	9.4	10.9	200	61.0	19.0	16.5	1000	304.8	37.0	42.6

**Example:** Determine the geographic visibility of an object, with a height above water of 65 feet, for an observer with a height of eye of 35 feet. Enter above table:

Height of object	65 feet
Height of observer	35 feet
Computed geographic visibility	9.4 NM 6.9 NM 16.3 NM

19945	BRANFORD REEF LIGHT	41 13.3 72 48.4	Fl W 6 <sup>s</sup>	30	7	NR on skeleton tower.
19950	Townsend Ledge Lighted Bell Buoy 104 Off south edge of ledge.		Fl R 4 <sup>s</sup>		4	Red.
19955	New Haven Dumping Ground Lighted Buoy SP	41 09.0 72 53.2	Fl Y 4 <sup>s</sup>		5	Yellow.
19960	CUS Dumping Ground Lighted Buoy CDA	41 09.3 72 53.4	Fl Y 4 <sup>s</sup>		5	Yellow. Maintained from June 1 to Oct. 1. Private aid.
19965 22425	New Haven Harbor Lighted Whistle Buoy NH	41 12.1 72 53.8	Mo (A) W		6	Red and white stripes with red spherical topmark.
19970 22470	Southwest Ledge Light	41 14.1 72 54.7	Fl R 5 <sup>s</sup>	57	13	White octagonal house on brown cylindrical pier. HORN: 1 blast ev 15 <sup>s</sup> (2 <sup>s</sup> bl). Emergency light of reduced intensity when main light is extinguished.
19975 22485	NEW HAVEN LIGHT	41 13.3 72 56.6	Fl W 4 <sup>s</sup>		35	7 NG on pipe tower.
19980	Pond Point Shoal Buoy 12 On south point of shoal.					Red nun.
19985	Charles Island Lighted Bell Buoy 16 South point of shoal.	41 11.0 73 03.1	Fl R 4 <sup>s</sup>		5	Red.
19990	Stratford Point Light	41 09.1 73 06.2	Fl (2) W 20 <sup>s</sup>	52	16	White conical tower, brown band midway of height. HORN: 2 blasts ev 30 <sup>s</sup> (2 <sup>s</sup> bl-2 <sup>s</sup> sl-2 <sup>s</sup> bl-24 <sup>s</sup> sl). Emergency light (Fl W 6 <sup>s</sup> ) of reduced intensity when main light is extinguished.

**GEOGRAPHIC RANGE TABLE**

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10	3.1	3.7	4.3	75	22.9	10.1	11.7	300	91.4	20.3	23.3
15	4.6	4.5	5.2	80	24.4	10.5	12.0	350	106.7	21.9	25.2
20	6.1	5.2	6.0	85	25.9	10.8	12.4	400	121.9	23.4	26.9
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Height of object	65 feet	9.4 NM
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(1) No.	(2) Name and location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LONG ISLAND SOUND (Connecticut and New York) - First District							
N/W LONG ISLAND SOUND (Eastern Part) (Chart 12354)							
19910	Horton Point Light	41 05.1 72 26.8	FI G 10 <sup>s</sup>	103	14	White square tower, dwelling attached.	
19911	Horton Point Radiobeacon	41 05.1 72 26.8	HP (••••• -•••••)		20		FREQ: 306 kHz, III, VI, Antenna 72 yards 162° from Light tower.
19915	Sixmile Reef Lighted Bell Buoy 8C At southerly edge of reef.		FI R 4 <sup>s</sup>		4	Red.	
19920	Twenty-Eight Foot Shoal Lighted Buoy TE	41 09.3 72 30.4	FI (2+1) R 6 <sup>s</sup>		4	Red and green bands.	
19925	Kimberly Reef Lighted Horn Buoy KR	41 12.8 72 37.4	FI (2+1) R 6 <sup>s</sup>		4	Red and green bands.	HORN: 1 blast ev 30 <sup>s</sup> (3 <sup>s</sup> bl).
19930	Falkner Island Light	41 12.7 72 39.2	FI W 10 <sup>s</sup>	94	13	White octagonal tower. 46	
19935	Goose Island Lighted Bell Buoy 10G Off south end of shoal.	41 12.1 72 40.5	FI R 4 <sup>s</sup>		4	Red.	
19940	SACHEM HEAD BREAKWATER LIGHT On rock.	41 14.8 72 42.7	FI R 3 <sup>s</sup>			Pile.	Maintained from June 1 to Oct. 1, Private aid.
19945	BRANFORD REEF LIGHT	41 13.3 72 48.4	FI W 6 <sup>s</sup>	30	7	NR on skeleton tower.	
19950	Townsend Ledge Lighted Bell Buoy 10A Off south edge of ledge.		FI R 4 <sup>s</sup>		4	Red.	
19955	New Haven Dumping Ground Lighted Buoy SP	41 09.0 72 53.2	FI Y 4 <sup>s</sup>		5	Yellow.	
19960	CIS Dumaine Ground	41 09.3	FI Y 4 <sup>s</sup>		5	Yellow.	Maintained from June 1 to





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SEACOAST (New York) - First District

N/W APPROACHES TO NEW YORK - NANTUCKET SHOALS TO FIVE FATHOM BANK (Chart 12300)							
730	Ambrose Light	40 27.6 73 49.9	FI W 5 <sup>s</sup>	136	24	Red tower on white square superstructure on four piles. AMBROSE on sides	HORN: 1 blast ev 15 <sup>s</sup> (2 <sup>s</sup> bl). Emergency light of reduced intensity when main light is extinguished. Obstruction lights showing FI W from all four corners. Piles floodlighted from sunset to sunrise. Lighted throughout 24 hours. RACON: N (-.-).
731	Ambrose Radiobeacon	40 27.6 73 49.9	T (-)		125		286 kHz, IV.

SEACOAST (New Jersey) - First District

APPROACHES TO NEW YORK - NANTUCKET SHOALS TO FIVE FATHOM BANK (Chart 12300)							
735	Hudson Canyon Traffic Lane Lighted Horn Buoy HA	40 07.6 73 21.4	FI Y 4 <sup>s</sup>		6	Yellow.	RACON: C (-.-.-). HORN: 1 blast ev 30 <sup>s</sup> (3 <sup>s</sup> bl).
740	Barnegat Traffic Lane Lighted Whistle Buoy BA	40 20.7 73 47.7	FI Y 6 <sup>s</sup>		7	Yellow.	
745	Fishing Grounds Obstruction Lighted Bell Buoy FG	40 25.2 73 51.7	FI (2+1) G 6 <sup>s</sup>		4	Green and red bands.	
750	New York Bight Dumping Ground Lighted Buoy NY	40 22.8 73 50.7	FI Y 6 <sup>s</sup>		5	Yellow.	
755	New York Bight Dumping Ground Buoy KVK	40 22.2 73 51.2				Yellow run.	

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<b>SEACOAST (Delaware) - Fifth District</b>							
N/W <b>CAPE MAY TO FENWICK ISLAND (Chart 12214)</b>							
190 1275	Hen and Chickens Shoal Lighted Gong Buoy 1 HC Off southeast end of shoal.	38 42.4 75 00.0	Fl G 2.5 <sup>s</sup>		4	Green.	
195 4125	Indian River Inlet Lighted Gong Buoy 1	38 36.6 75 02.8	Fl G 2.5 <sup>s</sup>		5	Green.	
200 4135	Indian River Inlet Radiobeacon	38 36.6 75 04.1	IR (** ---)	80	10	Whip antenna.	FREQ: 308 kHz.
<b>FENWICK ISLAND TO CHINCOTEAGUE ISLAND (Chart 12211)</b>							
205	FENWICK ISLAND LIGHT	38 27.1 75 03.3	Oc W 13 <sup>s</sup> 7.5 <sup>s</sup> fl 5.5 <sup>s</sup> ec	83	8	White tower. 87	Private aid.
210	Fenwick Shoal Lighted Gong Buoy 1 FIS On west side of shoal.	38 26.8 74 57.4	Fl G 4 <sup>s</sup>		5	Green.	
215	Isle of Wight Shoal Buoy IWS	38 23.5 74 56.0				Green and red bands; can.	
220	Great Gull Bank Lighted Whistle Buoy 4	38 16.4 75 00.4	Fl R 4 <sup>s</sup>		5	Red.	
<b>SEACOAST (Atlantic Ocean)</b>							
<b>CAPE SABLE TO CAPE HATTERAS (Chart 13003)</b>							
225	NOAA Data Lighted Buoy 44004 (ODAS)	38 32.2 70 43.3	Fl (4) Y 20 <sup>s</sup>			Yellow boat-shaped buoy.	

SEACOAST (Maryland) - Fifth District

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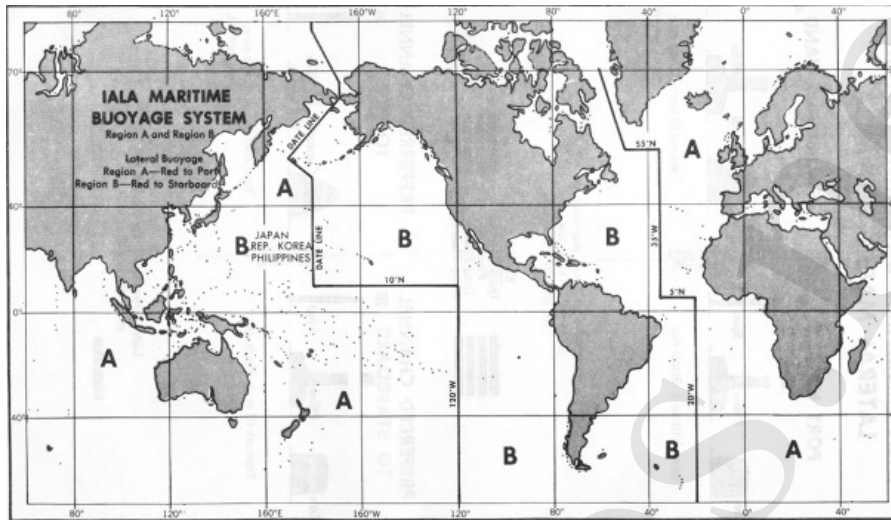
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60	18.3	9.1	10.4	150	45.7	14.3	16.5	900	274.3	35.1	40.4
65	19.8	9.4	10.9	200	61.0	19.0	16.5	1000	304.8	37.0	42.6

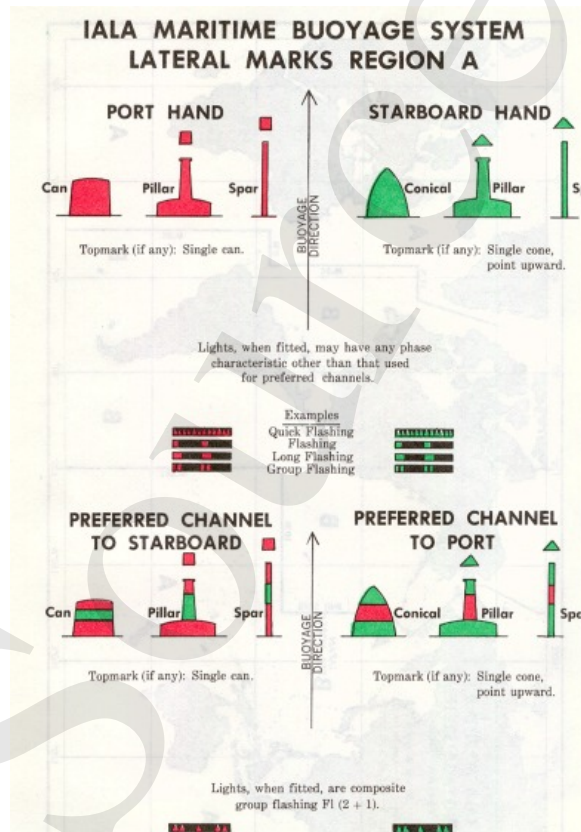
**Example:** Determine the geographic visibility of an object, with a height above water of 65 feet, for an observer with a height of eye of 35 feet. Enter above table:

Height of object	65 feet	9.4 NM
Height of observer	35 feet	6.9 NM
Computed geographic visibility		<u>16.3 NM</u>





ialasystem



iala\_a

<b>U.S. AIDS TO NAVIGATION SYSTEM</b> <b>on the Western River System</b>							
<b>AS SEEN ENTERING FROM SEAWARD</b>							
<p style="text-align: center;"><b>PORT SIDE</b> OR RIGHT DESCENDING BANK</p> <p style="text-align: center;">GREEN OR WHITE LIGHTS</p> <p style="text-align: center;">FLASHING ISO</p>	<p style="text-align: center;"><b>PREFERRED CHANNEL</b> MARK JUNCTIONS AND OBSTRUCTIONS COMPOSITE GROUP FLASHING (2+1)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <p style="text-align: center;">PREFERRED CHANNEL TO STARBOARD TOPMOST BAND GREEN FI (2+1) G</p> </td> <td style="width: 50%; padding: 5px;"> <p style="text-align: center;">PREFERRED CHANNEL TO PORT TOPMOST BAND RED FI (2+1) R</p> </td> </tr> </table> <p style="text-align: center;"><b>DAYBOARDS HAVING NO LATERAL SIGNIFICANCE</b></p> <p style="text-align: center;">MAY BE LETTERED <input type="checkbox"/> WHITE LIGHT ONLY</p>	<p style="text-align: center;">PREFERRED CHANNEL TO STARBOARD TOPMOST BAND GREEN FI (2+1) G</p>	<p style="text-align: center;">PREFERRED CHANNEL TO PORT TOPMOST BAND RED FI (2+1) R</p>	<p style="text-align: center;"><b>STARBOARD SIDE</b> OR LEFT DESCENDING BANK</p> <p style="text-align: center;">RED OR WHITE LIGHTS</p> <p style="text-align: center;">FLASHING (2) ISO</p>			
<p style="text-align: center;">PREFERRED CHANNEL TO STARBOARD TOPMOST BAND GREEN FI (2+1) G</p>	<p style="text-align: center;">PREFERRED CHANNEL TO PORT TOPMOST BAND RED FI (2+1) R</p>						
<b>SPECIAL MARKS—MAY BE LETTERED</b>							
<p style="text-align: center;">UNLIGHTED</p> <p style="text-align: center;">LIGHTED</p>	<p style="text-align: center;">SHAPE, OPTIONAL—BUT SELECTED TO BE APPROPRIATE FOR THE POSITION OF THE MARK IN RELATION TO THE NAVIGABLE WATERWAY AND THE DIRECTION OF BUOYAGE</p> <p style="text-align: center;">NY</p> <p style="text-align: center;">A</p>	<p style="text-align: center;"><input type="checkbox"/> YELLOW LIGHT ONLY FIXED FLASHING</p> <p style="text-align: center;">MOORING BUOY WHITE WITH BLUE BAND MAY SHOW WHITE REFLECTOR OR LIGHT</p>					
<p style="text-align: center;"><b>TYPICAL INFORMATION AND REGULATORY MARKS</b></p> <p style="text-align: center;">INFORMATION AND REGULATORY MARKERS</p> <p style="text-align: center;">WHEN LIGHTED, INFORMATION AND REGULATORY MARKS MAY DISPLAY ANY LIGHT RHYTHM EXCEPT QUICK FLASHING, Mo(a) AND FLASHING (2)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 5px;"> <p style="text-align: center;">SWIM AREA</p> </td> <td style="width: 33%; padding: 5px;"> <p style="text-align: center;">BOAT EXCLUSION AREA</p> </td> <td style="width: 33%; padding: 5px;"> <p style="text-align: center;">DANGER</p> </td> </tr> <tr> <td style="padding: 5px;"> <p style="font-size: small;">EXPLANATION MAY BE PLACED OUTSIDE THE CROSSED DIAMOND SHAPE, SUCH AS DAM, RAPIDS, SWIM AREA, ETC.</p> </td> <td style="padding: 5px;"> <p style="font-size: small;">THE NATURE OF DANGER MAY BE INDICATED INSIDE THE DIAMOND SHAPE, SUCH AS ROCK, WRECK, SHOAL, DAM, ETC.</p> </td> <td style="padding: 5px;"> <p style="font-size: small;">TYPE OF CONTROL IS INDICATED IN THE CIRCLE, SUCH AS SLOW, NO WAKE, ANCHORING, ETC.</p> </td> </tr> </table> <p style="text-align: center;">NW <input type="checkbox"/> WHITE LIGHT ONLY</p> <p style="text-align: center;">FOR DISPLAYING INFORMATION SUCH AS DIRECTIONS, DISTANCES, LOCATIONS, ETC.</p> <p style="text-align: center;">BUOY USED TO DISPLAY REGULATORY MARKERS</p> <p style="text-align: center;">MAY SHOW WHITE LIGHT MAY BE LETTERED</p>	<p style="text-align: center;">SWIM AREA</p>	<p style="text-align: center;">BOAT EXCLUSION AREA</p>	<p style="text-align: center;">DANGER</p>	<p style="font-size: small;">EXPLANATION MAY BE PLACED OUTSIDE THE CROSSED DIAMOND SHAPE, SUCH AS DAM, RAPIDS, SWIM AREA, ETC.</p>	<p style="font-size: small;">THE NATURE OF DANGER MAY BE INDICATED INSIDE THE DIAMOND SHAPE, SUCH AS ROCK, WRECK, SHOAL, DAM, ETC.</p>	<p style="font-size: small;">TYPE OF CONTROL IS INDICATED IN THE CIRCLE, SUCH AS SLOW, NO WAKE, ANCHORING, ETC.</p>	<p style="text-align: center;"><b>STATE WATERS</b></p> <p style="text-align: center;">INLAND (STATE) WATERS OBSTRUCTION MARK MAY SHOW WHITE REFLECTOR OR QUICK FLASHING WHITE LIGHT</p> <p style="font-size: small;">Used to indicate an obstruction to navigation, extends from the nearest shore to the buoy. This means "do not pass between the buoy and the nearest shore." This aid is replacing the red and white striped buoy within the USWMS, but cannot be used until all red and white striped buoys on a waterway have been replaced.</p> <p style="text-align: right; font-size: x-small;">PLATE 4</p>
<p style="text-align: center;">SWIM AREA</p>	<p style="text-align: center;">BOAT EXCLUSION AREA</p>	<p style="text-align: center;">DANGER</p>					
<p style="font-size: small;">EXPLANATION MAY BE PLACED OUTSIDE THE CROSSED DIAMOND SHAPE, SUCH AS DAM, RAPIDS, SWIM AREA, ETC.</p>	<p style="font-size: small;">THE NATURE OF DANGER MAY BE INDICATED INSIDE THE DIAMOND SHAPE, SUCH AS ROCK, WRECK, SHOAL, DAM, ETC.</p>	<p style="font-size: small;">TYPE OF CONTROL IS INDICATED IN THE CIRCLE, SUCH AS SLOW, NO WAKE, ANCHORING, ETC.</p>					