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## AN ACT OF INCORPORATION.

Lithographs of Pennants and Private Signals,

## LIST OF YACHTS.

## Constitution, By-Laws,

## SAILING REGULATIONS, \&C.

OF THE
REL YORK YACHT BLU.
1890.


## AN ACT

## TO INCORPORATE THE

## NEW YORK YACHT CLUB.



INCORPORATED FEBRUARY 16TH, 1865.
The People of the State of New Yorle, represented in Senate and Assembly, do enact as follows :
Section 1. Edwin A. Stevens, Ambrose C. Kingsland, Alexander Major, Robert S. Hone, William H. MoVicar, Anson Livingston, Hamilton Morton, and such other persons as are now associated as a Yacht Club in the City of New York, or may hereafter become associated with them, are hereby constituted a body corporate, by the name of "The New York Yacht Club," to be located in the City of New York, for the purpose of encouraging yacht building and naval architecture and the cultivation of naval science.

SEc. 2. The said corporation shall have power to make and adopt a constitution, by-laws, rules and regulations for the admission and government of its members, as well as for their suspension and expulsion; for the election of its officers and defining their duties, and for the safe-keeping, management, and disposition of its property and funds. It may also, from time to time, alter or repeal such constitution, by-laws, rules and regulations.

SEc. 3. The trustees of said corporation shall consist of all the members of the Club who are, or shall be for the time being, owners of yachts duly enrolled or entered on the records of the Club, and shall continue to be trustees so long as said members are the owners of such yachts.

Sec. 4. For the transaction of the business of the corporation, the owners of seven yachts duly enrolled or entered on the records of the Club, shall constitute a quorum; and every decision of a majority of said owners duly assembled as a board or meeting for the transaction of business, shall be valid as a corporate act, unless otherwise provided in the constitution or by-laws.

Sec. 5. The said corporation may purchase and hold or lease any real or personal estate; but the value of the real estate so held, or to be held by it shall not exceed one hundred thousand dollars.

Sec. 6. The said corporation shall also possess the powers and be subject to the restrictions and liabilities contained in the third title of the eighteenth chapter of the first part of the Revised Statutes.

Sec. 7. This act shall take effect immediately.
















## 1890.

## BONSTITUTION, BY-VAWS,

Sailing Regulations, \&C.,

OF THE

Heve Yorls Yacht Club.

NEW YORK:
1890.

NEW YORK:
Corlies, Macy \& Co., Stationers and Printers, 39 Nassau Street. 1890.

## OFFICERS OF THE CLUB AND STANDING COMMITTEES.

1890. 

## Commodore:

## ELBRIDGE T. GERRY.



## Regatta Committee:

S. Nicholson Kane, Chairman.

Chester Griswold.
William E. Iselin.

C'ommittce on Admissions:
Edtard M. Brown, Chairman. Frederic Gallatin, Secretary to Committee.

Charles Watrous.
Alexander Taylor, Jr.
Frank T. Fiobinson.

House Committee:
R. P. Lounsbery, Chairman.
J. Waldemar Hayward, Secretary to Committee.

John M. Wilson,
R. S. Bowne.

The Secretart, Ex'-Officio.

## MEMORANDA.


Superintendent, - - Niels Olsen,

## CLUB HOUSE,

## No. 67 MADISON AVENUE, New York City.

The International Code of Signals has been adopted by the Club.







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|  | －auи．nol2F <br> aul．i．． 0 f <br>  | ， | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ | $\vdots$ |  |
|  | ثٌ |  | ： | ： | ： |  |  |  |  | ： | ＝ |
|  |  |  |  |  | $\begin{aligned} & \text { 芝 } \\ & \text { E } \\ & E \\ & E \\ & E \end{aligned}$ |  |  |  |  | $\begin{aligned} & \dot{4} \\ & \dot{y} \\ & \dot{y} \\ & \dot{x} \\ & \dot{y} \end{aligned}$ |  |
|  | ェ் |  |  |  |  | $\begin{aligned} & \vdots \\ & \vdots \\ & \hline \end{aligned}$ |  | E |  |  |  |
|  |  |  |  | 3 | ， | ． | ： | ： |  |  | $\cdots$ |
|  |  |  |  | ＞ | ： |  | $\vdots$ | $\vdots$ |  |  | $\sim$ |
|  |  |  |  | $\stackrel{\square}{1}$ |  |  | $\vdots$ | ： |  |  | 4 |
|  |  |  |  | \％ | $\cong$ | ${ }_{\sim}^{8}$ | ヘ | $\cdots$ | $3{ }^{3}$ |  | $\stackrel{\text { ¢ }}{ }$ |






| ¢ | ＇s su？бия fo suo？suวu？． |  | $\begin{aligned} & \vec{\omega} \\ & \dot{w} \\ & \text { cis } \end{aligned}$ | $\begin{gathered} \infty \\ 2 \\ 2 \\ \end{gathered}$ | $\begin{aligned} & \sim \\ & \sim \\ & \sim \\ & \sim \end{aligned}$ | $2 ;$ |  | ＋1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & . \dot{\Xi} \\ & \stackrel{ڭ}{4}^{\infty} \end{aligned}$ | $\begin{aligned} & 0 \\ & 0 \\ & \hline-1 \end{aligned}$ | － | $\stackrel{10}{10}$ | ${ }_{0}^{4}$ | － | $\checkmark$ |  |
|  |  | $\begin{aligned} & \text { \&் } \\ & \text { \&io } \end{aligned}$ | $\cdots$ | $\infty$ | $4$ | $\begin{aligned} & \text { ה } \\ & \hline \end{aligned}$ | $=$ | $\cdots$ |  |
|  | －unag fo чдрраля <br>  | $\begin{aligned} & \text { ※ं } \\ & \text { ※ं } \end{aligned}$ | $\begin{aligned} & \text { ब } \\ & \text { © } \end{aligned}$ | $\begin{aligned} & 10 \\ & c \end{aligned}$ | $$ | $\begin{aligned} & \text { N } \\ & \underset{\sim}{2} \end{aligned}$ | $\stackrel{ }{\square}$ | $\stackrel{9}{2}$ |  |
|  | －วи！т «әาрм fo $y_{7} 6$ иәт |  | $\underset{\sim}{\mathbf{H}}$ | $$ | $\underset{\infty}{\infty}$ | $\stackrel{\bullet}{\square}$ | 8. | กู． |  |
|  |  | $\begin{aligned} & \text {. } \\ & \text { - } 5 \end{aligned}$ | ⿶ㅗㄱ | $\stackrel{\sim}{\sim}$ | $\infty$ | 范 | $\stackrel{\square}{\square}$ | $\propto$ |  |
| LIST OF STEAMERS．－Continued． |  |  |  | ＋ | $\begin{aligned} & 0 \\ & \infty \\ & \infty \\ & \dot{\sim} \end{aligned}$ | $\begin{aligned} & 0 \\ & 7 \\ & 20 \\ & \hline 1 \end{aligned}$ | \％ |  |  |
|  |  | $\begin{aligned} & \infty \\ & \infty \\ & \infty \\ & \hline \end{aligned}$ | 俞 |  | $\otimes$ |  | $\vdots$ |  |  |
|  | $\stackrel{\tilde{\circ}}{\stackrel{\circ}{\circ}}$ |  |  |  |  | $=$ | ： | $=$ |  |
|  |  |  |  |  |  |  |  |  |  |
|  | ※゙ธ |  |  | E <br> E <br> E <br> E | 츨 | $\begin{aligned} & \vdots \\ & \text { © } \\ & \text { E } \\ & \text { é } \\ & \text { U0 } \end{aligned}$ |  |  |  |
|  |  | T | 4 |  |  | \＆ |  |  |  |
|  |  | － | $\rightarrow$ |  |  | F |  |  |  |
|  |  | － | $\oplus$ |  |  | $\stackrel{\rightharpoonup}{ }$ |  |  |  |
|  |  | $\triangle$ | z |  |  | $\bigcirc$ |  |  |  |



| स゙ | －sau！ ．uG fo suọsuวu？a |  |  |  | $\left\|\right\|$ | $\left\|\begin{array}{l} \dot{0} \\ 0 \\ 0 \\ -1 \\ \\ \text { nix } \\ 0 \\ 0 \end{array}\right\|$ | $\begin{aligned} & 0 \\ & 10 \\ & 10 \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | －ยวาว 41 <br> fo 7 ybnvera |  | $\begin{aligned} & \infty \\ & \# \end{aligned}$ | $\stackrel{\circ}{\circ}$ | $\underset{\sim}{\infty}$ | $\begin{aligned} & 0 \\ & H \end{aligned}$ | 10 | $\bigcirc$ | $\stackrel{\infty}{\#}$ |
|  |  | $\begin{aligned} & \text { シ̊ } \\ & \sin ^{\circ} \end{aligned}$ | $\begin{aligned} & \text { © } \\ & 20 \end{aligned}$ | $\ddagger$ | $\sigma$ | $\bigcirc$ | 20 | $\bigcirc$ |  |
|  |  | $\begin{aligned} & \text { ह̈ं } \\ & \underbrace{\infty} \end{aligned}$ | $\begin{aligned} & \text { H } \\ & 0 \end{aligned}$ | $\begin{aligned} & + \\ & \underset{\sim}{+} \end{aligned}$ | － | $\begin{aligned} & \text { ® } \\ & \text { in } \end{aligned}$ | $\stackrel{9}{7}$ | $\propto$ | ¢ |
|  | ＇วиขт цววрм fo чəбиәт | $\begin{aligned} & . \tilde{\Sigma} \\ & 480 \end{aligned}$ | 둣 | \％ | $\stackrel{20}{7}$ | $\begin{gathered} \bullet \\ \underset{\sim}{\circ} \end{gathered}$ | $\begin{aligned} & 0 \\ & \infty \\ & 0 \end{aligned}$ | $\propto$ | － |
|  |  | $\begin{aligned} & \dot{\tilde{E}} \\ & \dot{=}=8 \end{aligned}$ |  | H | 䱡 | $\because$ | स | $\underset{\sim}{3}$ | ¢ |
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|  | $\begin{aligned} & \dot{\oplus} \\ & \text { む̃ } \\ & \text { §0 } \end{aligned}$ | 苞 |  |  |  |  |  |  | 年 |
|  | $\stackrel{\text { \％}}{\substack{8 \\ 4}}$ |  |  |  |  |  |  |  | 㐌 |
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| STEAMERS. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name. | Owners. | Port. |  |  |  |  |  |  | 它 |  |
| K F G M | Avenel........... | John H. Hanan...... | New York. | $\ldots$ | 116.65 <br> 66.23 <br> 16.93 | $\left\|\begin{array}{l} \text { ft. in. } \\ 1204 \end{array}\right\|$ | $\begin{aligned} & f t . i n . \\ & 106 \end{aligned}$ | ft. in. 18 | ft. in. | ft. in. | $\begin{gathered} \text { Qrle. Ex. } \text { A Cy }^{\text {Cy }} \\ \frac{81216 \& 24}{18} \\ \text { Tr. Ex. } 3 \mathrm{Cy} . \\ 46 \frac{1}{2} \& 10 \end{gathered}$ |
|  | Dido............. | Frank F. Chrystie. | " |  | $\begin{aligned} & \hline 11.03 \\ & 37.61 \end{aligned}$ | 60 | 55 | 9 | 5 | 36 | $\begin{aligned} & \frac{8}{8} \\ & \text { Con'g } 2 \mathrm{Cy} . \end{aligned}$ |
|  | Emit........... | H. M. Howe, M.D.... | Bristol. | $\ldots \ldots$ | 21.20 | 84 | 776 | 15 | 6 | 5 | $\begin{aligned} & \text { Con'g } 2 \text { Cy. } \\ & 10 \times 10 \\ & \text { C. I. } 2 \mathrm{Cy} . \\ & 7 \& 12 \end{aligned}$ |
| V K S F | Nautilus..... . . . |  |  |  | 14.43 | 56 | 486 | 104 | .. | 38 | $\frac{10}{\text { C. I. } 2 \mathrm{Cy} .}$ |
|  | dllie.............. | Percy Chubb . ....... | New York. |  | $10.40$ <br> 455. | 54 | 51 | 86 |  | 4 | $\begin{gathered} 8 \\ \text { C. I. } 2 \mathrm{Cy} . \\ 29 \& 48 \end{gathered}$ |
|  | Sans-Peur. <br> Shenecossett. | Edinin D. Morgan.... | New London. | ...... | $\begin{array}{r}1809.40 \\ 15.08 \\ \hline 7.89\end{array}$ | 1865 48 |  | 262 | 159 | 144 | $\begin{gathered} \frac{29 \& 48}{30} \\ \text { Con'g } 1 \mathrm{Cy} . \\ 8 \times 9 \end{gathered}$ |
|  |  | M. S. Smith.......... |  | ...... | $\begin{array}{r}7.89 \\ 69.38 \\ \hline\end{array}$ | 48 | 45 | 114 | 8 | 55 | $\begin{gathered} 8 \times 9 \\ \text { C. I. }{ }_{\&}^{2} \mathrm{Cy} \text {. } \end{gathered}$ |
| K G L S | Vita......Vivienne |  | ${ }^{*}$ Detroit. |  | $\begin{array}{r}48.51 \\ 116.69 \\ \hline\end{array}$ | 100 | 84 | 17 | 68 | 5 | $\begin{gathered} \frac{14}{T r . E x .3 \mathrm{Cy}} \\ 10.16 \& 25 \end{gathered}$ |
|  |  | J. L. Hutchingon | New York. |  | 58.35 | 131 | 109 | 18 | 11 | 7 |  |




## HONORARY 益EMBERS

OF THE

## NEW YORK YACHT CLUB.

1890. 

The President of the United States.
The Secretary of the Navy of the United States. The Secretary of the Treasury of the United States. The Collector of the Port of New York. The Admiral of the New York Station. The Commander of the Navy Yard at Brooklyn.
John Faunce, Captain U. S. R. M.
His Royal Highness the Prince of Wales.
The Earl of Mount Charles, Great Britain.
The Earl of Dufferin.
R. W. Hillas, Vice-Commodore Royal Western Y. C. of Ireland.
D. L. Braine, Rear-Admiral U. S. N.

David D. Porter, Admiral U. S. N.

The Commodore Royal London Yacht Club.
The Vice-Сомmodore "، "
The Rear-Commodore "، "
The Secretary "، "
The Treasurer "، "
The Commodorf Royal Harwich "
The Vicf-Commodore "، "
The Rear-Commodore " "
The Secretary " "
'The Admiral Royal Cork Yacht Club.
The Vice-Admiral " "
His Imperial Higeness the Grand Duke Alexis of Russia.
Baron Adolphe de Rothschild.
Sir Robert Peel, Bart.
Alex. Colden Rhind, Rear-Admiral U. S. Navy.
Hamilton Morton, Esq., New York City.
His Royal Highness Prince Oscar of Sweden.
Hon. Samuel Blatchford, U. S. Supreme Court.
Wm. J. Wallace, U. S. Circuit Court, New York.
Sir Richard Sutton, Bart., England.
Lieut. William Henn, R. N.
Rear-Admiral Stephen B. Luce, U. S. N.

## घIFE PREMBERS.

1. Sir R. W. Cameron, K. T. ..... 1874
2. W. Butler Duncan, ..... 1874
3. Henry Dolan, ..... 1874
4. Wm. M. Kingsland, ..... 1874
5. George L. Schuyler, ..... 1874
6. Philip Schuylfr, ..... 1874
7. A. C. Kingsland, ..... 1874
8. George L. Kingsland, ..... 1874
9. Harky M. Morris, ..... 1874
10. Fletcher Westray, ..... 1874
11. James Gordon Bennett, ..... 1874
12. Irving Grinnell, ..... 1875
13. Rutherfurd Stuyvesant, ..... 1875
14. Daniel S. Appleton, ..... 1875
15. John S. Dickerson, ..... 1875
16. George S. Bowdoin, ..... 1875
17. Howard Potter, ..... 1875
18. Samuel D. Babcock, ..... 1875
19. Robert G. Remsen, ..... 1876
20. Geo. W. McLean, ..... $1876^{\circ}$
21. G. G. Howland, ..... 1876
22. Henry G. Russell, ..... 1877
23. Robert Center, ..... 1877
24. James M. Davis, ..... 1877
25. Phillips Phenix, ..... 1877
26. Robert M. Grinnell, ..... 1877
27. J. Van Schaicr, ..... 1878
28. B. C. Cleeviann, ..... 1878
29. T. Dennie Boardman, ..... 1880
30. William Astor, ..... 1881
31. Henry S. Hovey, ..... 1883
32. William P. Douglas, ..... 1883
33. Lloyd Phenix, ..... 1883
34. George W. Kidd, ..... 1884
35. J. F. Loubat, ..... 1885
36. J. R. Busk, ..... 1885
37. F. S. G. D'Hauteville, ..... 1885
38. Julien L. Myers, ..... 1886
39. James M. Waterbury, ..... 1886
40. Louis L. Lorrillard, ..... 1887
41. J. Frederict Schenci, ..... 1888
42. Thouras T. Lawrence, ..... 1888
43. Alexander Taylor, Jr., ..... 1888
44. John H. Bird, ..... 1888
45. Edward E. Cease, ..... 1888
46. John M. Wilson, ..... 1888
47. Frederick Roosevelt, ..... 1889
48. Hugh L. Willoughby, ..... 1889
49. Frank C. Latrance, Jr, ..... 1889
50. James Stillivan, ..... 1889
51. Anson Phelps Stores, ..... 1889
52. Gouverneur Kortright, ..... 1890
53. William F. Coston, ..... 1890

MEMBERS OF THE NEW YORK YACHT CLUB.


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| No. | Date of | ction. | Name. |  |  |  | Residence. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 464 | March | 24, 1887 | Burden, Henky, 2d | - |  | - | Troy, N. Y. |
| 589 | July | 19, 1888 | Burden, Howard H. |  |  |  |  |
| 428 | October | 28, 1886 | Burden, W. F. . |  |  |  | ، 6 |
| 296 | May | 15, 1884 | Burgess, 'Thomas |  |  |  | New York. |
| 299 | July | 17, 1884 | Burnham, Henry $\mathrm{D}^{\text {d }}$ |  | . |  | Boston. |
| 557 | February | 2, 1888 | Burnham, T. Brownell |  |  |  | New York. |
| 339 | July | 23, 1885 | Bush, R.'T. . |  |  |  | " |
| 577 | March | 22, 1888 | Bush, J. Adriance |  |  |  | ، 6 |
| 669 | February | 6, 1890 | Bushe, Eugene L. |  |  | . | ، 6 |
| 565 | February | 2, 1888 | Bushnell, Joseph |  |  |  | '6 |
| 80 | July | 15, 1869 | Busk, Jos. R. | . |  |  | Staten Island . |
| 438 | February | 3, 1887 | Butt, McCoskry |  |  |  | New York. |
| 554 | October | 27, 1887 | Cable, B. T. |  | . | . | New York. |
| 42 | May | 19, 1864 | Cahoone, A. M. |  |  |  | 6. |
| 519 | June | 21, 1887 | Cameron, E. | - |  |  | '6 |
| 22 | May | 17, 1857 | Cameron, Sir R. W. Kt. |  |  |  | 6 6 |
| 284 | March | 27, 1884 | Canfield, A. Cass . |  |  |  | 6 |
| 617 | March | 28, 1889 | Carey, Henry Astor |  |  |  | ، 6 |
| 537 | October | 27, 1887 | Carleton, Henry Guy. | - |  |  | 6 6 |
| 371 | February | 4, 1886 | Carroll, Royal Phelps |  |  |  | '، |
| 439 | February | 3, 1887 | Cartledge, John |  | . | - | Brooklyn. |
| 181 | July | 17, 1879 | Cassatt, A. J. . |  |  |  | Philadelphia. |

MEMBERS OF THE NEW YORK YACH'T CLUB.
MEMBERS OF THE NEW YORK YACHT CLUB.



|  |  | MEMB | RS OF 'THE NEW YORK | YACH'T | CLUB | 42 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Date of | ction. | Name. |  |  | Residence. |
| 636 | July | 18, 1889 | Duncan, Wm. Butler, Jr. | . | - | New York. |
| 211 | March | 12, 1881 | Durant, Howard M. . |  |  |  |
| 437 | October | '8, 1586 | Durkee, R. P. H. . | . |  | Chicago. |
| 274 | July | 19, 1883 | Duryea, George |  | . | Glen Cove. |
| 143 | March | 25, 1875 | Du Vivier, E. | . |  | New York. |
|  |  |  | E |  |  |  |
| 192 | March | 25, 1880 | Earle, Jos. P. | . - |  | New York. |
| 512 | July | 21, 1887 | Eastwood, Jonn H. |  | - | Belleville, N.J. |
| 126 | May | 21, 1874 | Edgar, Daniel | . |  | New York. |
| 58 | February | 28, 1867 | Edgar, Le Roy | . |  | 6، |
| 391 | May | 20, 1886 | Edgar, Newbold . | . - |  | ، 6 |
| 308 | July | 17, 1884 | Edwards, Gerard Mohmis | . | . | 6 |
| 541 | October | 27, 1887 | Edwards, R. L. . |  |  | '6 |
| 417 | October | 28, 1886 | Egleston, D. S. . |  |  | '، |
| 655 | October | 24, 1889 | Elliot, Richard McCaul | . - |  | Philadelphia. |
| 252 | May | 18, 1882 | Ellis, Ralph N. . | . |  | New York. |
| 343 | October | 22, 1885 | Emerson, John W. |  |  |  |
| 355 | October | 22, 1885 | Eustis, W. C. . |  |  | Washington, D. C. |
| 506 | July | 21, 1887 | Evans, J. Francis | - |  | New York. |



| No. | Date of | ction. | Name. |  |  |  | Residence. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $F$ |  |  |  |  |
| 379 | March | 25, 1886 | Farley, Gustavus, Jr. |  |  |  | New York. |
| 276 | October | 25, 1883 | Faye, James J. . | . |  |  |  |
| 594 | October | 25, 1888 | Fearing, Daniel B. |  |  |  | Newport, R. I. |
| 367 | Febriary | 4, 1886 | Fearing, George R. |  | . |  | New York. |
| 173 | October | 25, 1877 | Fell, John R. . |  |  |  | Philadelphia. |
| 300 | July | 17, 1884 | Fellows, William Gordon |  | . |  | New York. |
| 471 | May | 19, 1887 | Ferguson, Walter . |  |  |  | Stamford, Conn. |
| 502 | July | 21, 1887 | Fessenden, Samuel | . |  |  |  |
| 322 | March | 26, 1885 | Ficken, H. Edwards |  |  |  | New York. |
| 418 | October | 28, 1886 | Field, Edward M. | . | . | . | ، |
| 262 | February | 1, 1883 | Fish, Latham A. |  |  |  | ، ${ }^{\prime}$ |
| 175 | March | 12, 1878 | Fisher, Lamar W. | - |  |  | ، |
| 520 | October | 27, 1887 | Fiske, Frederic B. |  |  |  | ، 6 |
| 201 | October | 28, 1880 | Fiske, Jostar M. | - | . |  | ، |
| 277 | October | 25, 1883 | Flagler, H. M. | . |  |  | ، |
| 426 | October | 28, 1886 | Flagler, John H. |  |  |  | '6 |
| 190 | March | 24, 1880 | Flint, Charles 12. | . |  |  | ، |
| 503 | July | 21, 1887 | Flint, F. W. | . | . |  | 6 |
| 133 | July | 16, 1874 | Foote, Emerson |  |  |  | '، |
| 320 | March | 26, 1885 | Forbes, J. Malcolm | . |  |  | Boston. |
| 611 | February | 7, 1889 | Forbes, William H. |  |  |  |  |
| 263 | February | 1, 1883 | Forbes-Leith, Alex. J. | . | . |  | New York. |
| 619 | March | 28, 1889 | Foster, Macomb G. |  |  |  | ، |


members of the new york yacht club.

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MEMBERS OF THE NEW YORK YACHT

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|  | 号 |  <br>  |



MEMBERS OF THE NEW YORK YACHT CLUB.


| MEMBERS OF THE NEW YORK YACHT CLUB. |  |  |  |  |  |  | 51 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Date of | ction. | Name. |  |  | Residence. |  |
| 24 | May | 30, 1857 | La Montagne, Edward | - |  | New York. |  |
| 92 | July | 21, 1870 | Langley, Wm. H. . |  |  | ، 6 |  |
| 170 | May | 17, 1877 | Langdon, Walter | . |  | ،6 |  |
| 238 | March | 23, 1882 | Lanier, Charles |  |  | ، |  |
| 315 | February | 15, 1885 | Laurie, R. Northal |  | - | London, Eng. |  |
| 137 | July | 16, 1874 | Lawrance, F. C., Jr. |  |  | New York. |  |
| 330 | May | 21, 1885 | Lawrence, Prescott |  |  | Boston, |  |
| 45 | May | 19, 1864 | Lawrence, T. T. . |  |  | New York. |  |
| 178 | October | 24, 1878 | Lawson, L. M. . |  |  | 6 |  |
| 323 | March | 26, 1885 | Leland, Charles H. | . |  | 6، |  |
| 547 | October | 27, 1887 | Lee, William H. L. |  | . | 6 6 |  |
| 433 | October | 28, 1886 | Lindley, D. A. . | . . |  | ، 6 |  |
| 207 | February | 3, 1881 | Limpitt, Chas. Warren |  |  | Providence. |  |
| 218 | March | 12, 1882 | Lippitt, Henry . |  |  | '، |  |
| 493 | July | 21, 1887 | Litchfield, Edward H. | . | . | New York. |  |
| 410 | July | 15, 1886 | Livingston, Lewis II. |  |  | Rhinebeck, N. Y. |  |
| 301 | July | 17, 1884 | Longrellow, C. A. | . | - | Boston. |  |
| 424 | October | 28, 1886 | Loomis, John Mason | . . | . | Chicago. |  |
| 78 | May | 10, 1869 | Lorillard, Jacob | . |  | New York. |  |
| 66 | February | 6,1868 | Lorillard, Louis L. | . | . | ،6 |  |
| 52 85 | February | 1, 1866 | Lorillatar, Pierre | . | - | 6 6 |  |
| 85 401 | February | 3, 1870 | Loubat, J. F. $\dot{\text { d }}$ |  | . | 6 6 |  |
| 401 | May | 20, 1886 | Lounsberry, Rich. P. | - |  | '6 |  |
| 415 | July | 15, 1886 | Lovejoy, Frederic . | . . | . | " 6 |  |
| 386 | March | 25, 1886 | Lovejoy, John F. |  | . | [ ${ }^{6}$ |  |
| 536 | October | 27, 1887 | Linge, James D. | - |  | ، 6 |  |


| No. | Date | ction. | Name. |  |  | Residence. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | M |  |  |  |
| 539 | October | 27, 1887 | Mali, Henry W. T. . |  |  | New York. |
| 601 | February | 7, 1889 | Manning, John A. |  |  | Saratoga, N. Y. |
| 425 | October | 28, 1886 | Manning, Thomas |  |  | New York. |
| 447 | February | 3, 1887 | Markoe, F. H., M. D. |  |  | ،6 |
| 600 | February | 7, 1889 | Martin, Franik B. |  |  | Brooklyn, N. Y. |
| 434 | October | 28, 1886 | Martin, James E. |  |  | New York. |
| 318 | February | 5, 1885 | Marquand, Henry |  |  | ،6 |
| 81 | July | 15, 1869 | Marshall, Chas. H. |  |  | 6، |
| 435 | October | 28, 1886 | Marx, Ludwig |  |  | ، 6 |
| 631 | July | 18, 1889 | Mason, John |  |  | ، |
| 403 | May | 20, 1886 | Masury, John W. |  |  | '، |
| 473 | May | 19, 1887 |  |  |  | Cleveland, O. |
| 585 | May | 17, 1888 | Mather, Samuel Matson, William L. |  |  | Hartford, Conn. |
| 615 | March | 28, 1889 | Matthews, George |  |  | New York. |
| 101 | July | 20, 1871 | Maxwell, J. Roger |  |  | New York. |
| 599 | February | 7, 1889 | McCue, John B. |  |  | Brooklyn, N. Y. |
| 340 | July | 23, 1885 | McGill, George W. |  |  | New York. |
| 398 | May | 20, 1886 | McGinnis, E. L'. H., M.D. |  |  | ${ }^{6}$ |
| 41 431 | May | 19, 1864 | McGown, Henry P. McKim, Clarence |  |  | ، 6 |
| 431 | October | 28, 1886 |  |  |  | 6 6 |
| 12 | May | 31, 1854 | McLean, George W. |  |  | 6 |
| 64 224 | February | 6, 1868 | McMasters, W. B. (absent) |  |  | ، |
| 224 | May | 19, 1881 | Metcalf, Jesse |  |  | Proyidence, R. I. |

members of THE NEW YORK YacHT CLUB.
MEMBERS OF THE NEW YORK YACHT CLUB. 54



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| No. |  |  |
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|  |  |  |
| 462 | March |  |
| 185 | February | 24,1887 |
| 637 | July | 5,1880 |
| 249 | May | 18,1889 |
| 267 | May | 18,1882 |
| 672 | March | 17,1883 |
| 373 | February | 27,1890 |
| 3 | July | 4,1886 |
| 662 | February | 14,1846 |
| 188 | March | 6,1890 |
| 634 | July | 18,1880 |
| 68 | June | 15,1889 |
| 93 | July | 21,1870 |
| 618 | March | 28,1889 |
| 333 | May | 21,1885 |
| 53 | February | 1,1866 |
| 36 | May | 15,1862 |
| 466 | March | 24,1887 |
| 668 | February | 6,1890 |
| 523 | October | 27,1887 |
| 86 | May | 19,1879 |
| 404 | May | 20,1886 |
| 129 | May | 12,1874 |
| 487 | May | 19,1887 |
| 453 | February | 3,1887 |

MEMBERS OF THE NEW YORK YACHT CLUB.


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\text { RyERson, } \Lambda \text { RTIUUR }
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Sampson, Meniry
SANDERS, JACOB G.
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SANDS, Fred. I'.

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MEMBERS OF THE NEW YORK YACHT CLUB.

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MEMBERS OF THE NEW YORK YACHT CLUB.

MEMBERS OF THE NEW YORK YACHT CLUB.

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MEMBERS OF THE NEW YORK YACH'T CLUB

| No. | Date of Election. |  | Name. | Residence. |
| :---: | :---: | :---: | :---: | :---: |
| 89 | May | 19, 1870 | Wood, W. Stanard | New York. |
| 364 | February | 4, 1886 | Woodbury, J. M.. M.D. |  |
| 253 | October | 26, 1882 | Woodriff. John R. P. | ، |
| 147 | October | 28, 1875 | Worden, Daniel T. | " |
| 625 | May | 16, 1889 | Wortilington, Chas. C. . | "، |
| 71 | July | 23, 1868 | Wrigit, Edward, Markoe (absent) |  |
| 650 | October October | 24, 1889 | Wright, J. Wood | New York. |
| 146 | October | 28, 1875 | W feth, Leonard J. Z |  |
| 286 | March | 27, 1884 | Ziegler, William | New York. |

CONSTITUTION

# CONSTITUTION <br> - OF THE - <br> NEW YORK YACHT CLUB. 

## ARTICLE I.

OFFICERS.
The officers of the Club shall consist of a Commodore, ViceCommodore, Rear Commodore (each one of whom shall be the owner of a yacht), Secretary, Treasurer, Measurer and Fleet Surgeon.

## ARTICLE II.

ELECTION OF OFFICERS.
The annual election of officers shall take place at the first general meeting in each year, and said election shall be by ballot only. Each officer shall be elected on separate ballot, and shall hold office until the adjournment of the first annual meeting of the following year. Vacancies may be filled at any general or special meeting, notice of such election having been sent to each member at least ten days previous to such meeting.

## ARTICLE III. dUties of commodore.

It shall be the duty of the Commodore to take command of the
squadron, preside at all meetings, and to enforce the laws and regulations rigidly.

He may call a special meeting of the Club at his pleasure, and he shall do so at the written request of three representatives of yachts, or of any two members of the House Committee.

## ARTICLE IV.

 duties of vice-commodore.It shall be the duty of the Vice-Commodore to assist the Commodore in the discharge of his duties and in his absence to officiate in his stead.

## ARTICLE V. DUTIES OF REAR-COMMODORE.

It shall be the duty of the Rear-Commodore to assist the Commodore and Vice-Commodore in the discharge of their duties, and in their absence to officiate in their stead.

## ARTICLE VI. <br> DUTIES OF SEURETARY.

It shall be the duty of the Secretary :
To keep a true record of the proceedings of all meetings of the Club in a book provided for that purpose.

To keep a correct roll of all the members.
To notify the treasurer, immediately after the General Meeting in February, of the number of members then liable for annual dues, and also during the year to notify him of the election of any new members.

To keep a correct list of the name, ownership, dimension and rig of each yacht enrolled in the Club, and to have charge of the models and draughts deposited therewith.

To file all documents, records, reports and communications connected with the business of the Club.

To notify each member-elect of his election, and, upon his becoming a member, to furnish him with a copy of the Club Book for the year.

To have books printed, as provided by the By-Laws.
To notify each member of every meeting.
In case of inability to attend any meeting, to cause the necessary books and papers to be conveyed to the place of meeting.

## ARTICLE VII

DUTIES OF TREASURER.
It shall be the duty of the Treasurer to receive all moneys due the Club, and to pay all bills contracted by it ; keeping a correct account of the same in a book provided for that purpose.

To make a report at each General Meeting of all his receipts and disbursements, and of the amount of money then remaining in his hands.

The report made at the first General Meeting in each year shall also contain a statement of the number of members reported by the Secretary to have been liable for annual dues during the year, and it shall further show the amount of dues uncollected at the time of making the report and the names of the delinquent members.

To notify the Secretary of all members in arrears on the first day of December in each year.

He shall have the custody of all the funds of the Club.

## ARTICLE VIII.

## DUTIES OF MEASURER.

It shall be the duty of the Measurer to measure all yachts and calculate their measurement, as prescribed by the By-Laws and Sailing Regulations, and make a return of the same to the Secretary.

## ARTICLE IX.

MEETINGS.
There shall be five General Meetings in each year.

## ARTICLE X.

QUORUM AND VOTING.
A quorum at each General or Special Meeting shall consist of seven owners of yachts.

All voting to be by owners of yachts.
Each yacht to be entitled to one vote only, to be cast by her owner in person, but no owner, by reason of owning more than one yacht, shall be entitled to more than one vote.

## ARTICLE XI.

## ELECTION OF MEMBERS.

Any person shall be eligible to be elected a member.
Each candidate must be proposed and seconded by two members over their own signatures in a book kept at the Club-House for that purpose, and in which shall be inserted the name, residence, business address and occupation of the candidate, and if a yacht owner, the name of the yacht. The Secretary shall immediately cause the names of the candidate to be posted in a conspicuous place in the Club-House for at least ten days before he shall be acted on by the Committee on Admissions.

In case of approval by the Committee the name of the candidate together with those of his proposer and seconder shall be returned to the Secretary who shall cause them to be posted until such time as they can be balloted for, which balloting shall only take place at one of the five General Meetings. Members shall be elected by ballot only. Two black balls shall defeat an election where seven votes are cast; one black ball shall be necessary for each additional seven votes.

## ARTICLE XII.

HONORARY MEMBERS.
The President of the United States, the Secretary of the Navy, the Secretary of the Treasury, the Collector of the Port of New York, the Admiral of the Station, and the Commander of the Navy Yard, at Brooklyn, shall be, ex-officio, honorary members. Any person may become an honorary member who shall have been approved by the Committee on Admissions and have received a unanimous vote at two General Meetings. Such honorary members shall have all the privileges of the Club, except voting and being eligible for office.

## ARTICLE XIII.

Life members.
Any member whose name shall have been upon the roll of the Club, and have paid annual dues for fifteen consecutive years, shall be entitled to become a Life Member on the payment of two hundred dollars, which shall be in lieu of any further annual dues.

These payments shall constitute a Reserve Fund to be deposited in a New York Trust Company by the Treasurer, and no disposition of this fund shall be made except by a vote at two meetings one of which shall be a General Meeting.

## ARTICLE XIV.

 COMMITTEE ON ADMISSIONS.At the first General Meeting of each year, or as soon thereafter as an election may be held, a committee of five members (of whom at least three must be yacht owners) shall be chosen by ballot, whose duty it shall be to carefully consider and examine the qualifications and fitness of all candidates for admission to membership.

This Committee shall hold office until the adjournment of the first general meetil:g of the following year, and shall be empowered to fill vacancies which may occur in their number.

## ARTICLE XV.

## HoUSE COMMITTEE.

At the first General Meeting in each year there shall be elected four members, to serve with the Secretary, as a House Committee.

The House Committee shall organize by the election of a Chairman and Secretary, and shall keep an account of their proceedings and of all bills approved by them in a book to be provided for that purpose, which book shall be at all times open to the inspection of the members of the Club. They shall have a general supervision of the Club House and of all the property contained therein, except models. They shall have the power to prescribe such rules and regulations as they may deem necessary for the proper government of the Club House, which shall be posted in a conspicuous place therein. They shall, by and with the assent of the Flag Officers, select and employ a superintendent, and determine his compensation. They shall hire all other employees they may deem necessary, and determine their compensation. They shall fix the prices of all games and refreshments. They shall make all necessary purchases for the proper maintenance of the Club House, and for the supplying of refreshments therein, and shall audit all bills therefor. They shall, at the second general meeting in each year, submit to the Club an estimate of the amount they may deem necessary (inclusive of the rent of the Club House), to properly carry on and maintain the said Club House until the next Annual Meeting of the Club, and thereupon the Club shall make an appropriation to cover the same. The amount so appropriated shall not be exceeded except by special action of the Club. They shall have the power to suspend any member who shall violate any of their rules or those of the Club, until the next regular or special Meeting of the Club, whichever may first occur thereafter, and at such meeting they shall report the offense and the name of the offender to the Club for its action. 'They shall collect all sums due for refreshments and games, and pay over the same to the Treasurer at the end of each month. They shall have power to fill any vacancies which may occur in their number, until the next annual meeting.

## ARTICLE XVI.

REGATTA COMMITTEE.
At the first General Meeting of each year there shall be elected three members, not owners of yachts, to serve as a Regatta Committee, who shall have power to fill vacancies which may occur in their number, and to appoint sub-committees.

It shall be the duty of the Regatta Committee to make arrangements for, act as judges in, and take charge of all races sailed by or under the direction of the Club; they shall have full power to decide all questions that may arise in the sailing of such races ; to exclude all yachts which, by their decision, have violated any rule of the Club, and to postpone any race, should unfavorable weather render such a course desirable.

There shall be no appeal from the decision of this Committee.

## AliticLe XVII.

## LIBRARY COMMITTEE.

At the first General Meeting in each year there shall be appointed by the Commodore, three members, to serve as a Library Committee who shall have power to fill vacancies which may occur in their number.

## ARTICLE XVIII.

## nominating committee.

There shall be elected at the last General Meeting of each year a Nominating Committee to consist of five yacht owners and five non yacht owners, whose duty shall be to nominate officers and standing committees of the Club for the ensuing year, and who shall cause the names of such officers and standing committees so nominated by them to be posted in a conspicuous place in the Club house at least ten days before the Annual Election.

This section shall not prohibit any member (a legal voter) from voting for any person who is not put in nomination previous to the time specified in this section.

## ARTICLE XIX.

## ASSESSMENTS.

The Club shall have power, at any general or special meeting, to levy an assessment on each member, not exceeding twenty-five dollars in each year.

## ARTICLE XX.

## AMENDMENTS.

This Constitution shall only be amended as follows: The proposed amendment must be legibly written or printed with the name of the member proposing the same, and a copy thereof sent to the Secretary of the Club, and another copy posted on the bulletin board at the Club House for at least one week previous to a General Meeting of the Club. Any amendment must first be submitted at a General Meeting, and shall be valid only when approved at a subsequent meeting. If adopted at the General Meeting it must be kept posted until the next meeting by the Secretary in a conspicuous place in the Club House. No amendment once rejected shall be reconsidered at any subsequent meeting within six months thereafter. There shall be no suspension of any article of the Constitution.

## BY-LAWS.

## CHAPTER I.

DUES.
Each member, on his election, shall pay the sum of one hundred dollars as entrance fee, and twenty-five dollars dues for the current year. If said sum is not paid within thirty-five days from the time of his election, the Treasurer shall notify the Secretary of the fact and such election shall be null and void. Each subsequent annual payment shall be twenty-five dollars and shall become due at the first General Meeting in each year. Foreigners, members of Yacht Clubs in their own country, and not residing in the United States, shall be exempt from all payments, except the first of one hundred dollars. Members who are absent from the United States for the whole fiscal year, commencing on the first Tuesday in February, shall be exempt from their dues for such year, provided they give notice of their absence to the Secretary.

On the first day of June of each year the Treasurer shall furnish the Secretary with a list of names of members whose dues for the year remain unpaid. The Secretary shall at once notify such delinquent members, and cause their names to be posted in the Club House.

At the next general meeting the names of such members as have not then paid their dues for the current year shall be read by the Secretary, and they shall be considered (unless as hereinbefore provided) as having forfeited their membership, and their names shall be stricken from the list of members.

No member shall be entitled to any of the privileges of the Club until his dues are paid.

## CHAPTER II.

## MEETINGS.

The five General Meetings required by the Constitution shall be held as follows:

The first on the firstThursday in February ; the second on the fourth Thursday in March; the third on the third Thursday of May; the fourth on the third Thursday of July ; and the fifth on the fourth Thursday of October, in the City of New York.

The dates of these meetings shall be posted by the Secretary in a conspicuous place in the Club House.

The following order of business shall be observed at all General Neetings, and shall not be departed from except by a twothirds vote:-

1. Roll call.
2. Minutes of previoas meeting.
3. Report of House Committee.
4. Report of Regatta Committee.
5. Report of Treasurer.
6. Report of Select Committees.
7. Elections.
8. Unfinished business.
9. Miscellaneous business.
10. Adjournment.

## CHAPTER III.

## NOTICES.

Notice shall be sent to every member of all General Meetings at least one week before such meetings; and of all special meetings, and of the purposes for which they are called, at least three days before such meetings. The business of any special meeting shall be strictly confined to the purposes for which it was called.

## CHAPTER IV.

## REPRESENTATION.

A yacht shall be represented at meetings and otherwise in the Club by her owner, or by any one of her owners, (if there be more than one,) all of whom must be Members of the Club. For steam yachts a copy of the Custom House Certificate deposited with the Secretary shall be considered a proper registry. No yacht shall be entitled to representation until she shall have been registered on the Club record, in the name of her owner or owners, and have been launched, and a certificate signed by the Measurer, filed with the Secretary, specifying her dimensions, tonnage (old measurement), and rig, and that she is fifteen tons or over (old measurement), and a full-decked vessel, reasonable cock pit excepted.

No yacht, shall, however, be entitled to representation, if she shall have been out of commission for two consecutive years.

For the purpose of representation only, the Measurer may satisfy himself, by Custom House Certificate, or otherwise, of the tonnage of a yacht.

No yacht shall be represented in the Club, unless by her design and construction she is well suited to accompany the Squadron on a cruise ; and the Measurer shall withhold his certificate from any yacht which may not, in his opinion, be suited to meet this requirement. The owner of the yacht, however, may appeal from such decision to the Club, and if the appeal be sustained, the Measurer shall then furnish the necessary certificate.

On the written representation of any two yacht owners to the Secretary that the Measurer has granted a certificate to a yacht unfit to be represented in the Club, such a certificate may be can. celled by a majority of votes at any general or special meeting.

## CHAPTER V.

## YACHTS CHANTERED.

Any yacht which may be chartered shall be debarred the right of representation during the time in which she may be so chartered; but a member chartering a yacht for not less than two months, shall have all the privileges of the Club, except representation.

## CHAPTER VI.

## DISTINGUISHING SIGNALS; PENNANTS, ETC.

The distinguishing signal of the Club shall be a pointed flag ; the device, a white five-pointed star in the center of two red stripes, they being in width one-fifth of that of the signal ; one running lengthwise through it in the middle, the other running crosswise through it at one-third the length of the signal from its head-all on a blue field.

Each yacht shall have a distinguishing signal flag, and shall show it when signalled by another yacht.

The Commodore shall display a broad pennant, with a foul anchor encircled by thirteen five-pointed stars, in white, on a blue field; the Vice-Commodore, a broad pennant, with a similar device, on a red field; the Rear-Commodore, a broad pennant, with a similar device, in red on a white field. The Acting Commodore, under Chapter XIII., shall display a broad pennant, blue field, without device. These pennants stall be burgees, viz.: tapering, swallow-tailed flags.

All the foregoing mentioned flags shall be, in length, onehalf of one inch for each foot of height of truck from the water and, in width, two-thirds of the length.

Each yacht shall also have a blue pennant, in length, at the head, three-quarters of one inch to the foot as aforesaid; in width, one-tenth the length; to be used as a day or night pennant.

The distinguishing night signal of the Club shall be a Coston light showing the colors green-red-green in succession.

Each yacht shall have a set of signal flags such as may be ordered by the Club, to be not less than three feet long.

Single-masted yachts while cruising in squadron shall display their private signal when under sail; and the Club flag when at anchor.

## CHAPTER VII.

## STEAM LAUNCHES.

Steam launches of forty feet water line and over, belonging to members, may, upon application to the Secretary, obtain
authority to carry the Club signal, but they shall not be entitled to any other privilege. Such application shall contain style, dimensions, and horse power of engines.

## CHAPTER VIII. <br> FLEET CAPTAIN.

The Commodore, or officer in command, shall appoint a Fleet Captain to assist him in his duties, to hold office during the pleasure of the appointer.

## CHAPTER IX.

numbers.
The officer in command of yachts sailing in squadron shall assign to each yacht a number, by which she shall perform any evolution which he may direct.

## CHAPTER X.

COLORS AND GUNS.
Yachts in commission shall hoist colors at 8 o'clock, A. m., and haul them down at sunset, and from "colors" at sunset until "colors" the next morning they shall fly night pennants. They shall take the time from the senior officer present.

No guns shall be fired except for the purpose of giving the time for "colors." When in squadron, however, the Routine may govern.

No guns shall be fired on Sunday.

## CHAPTER XI.

SALUTING.
Yachts passing one another shall exchange salutes by dipping the ensign, juniors saluting first.

Steam whistles shall not be used for the purpose of saluting.

## CHAPTER XII. JOINING COMPANY, ETC.

Yachts joining or parting company from a squadron at ${ }_{3}^{7}$ sea shall signal their intention to the officer in Command; if the squadron be at anchor, their owners shall report on board the flagship.

## CHAPTER XIII.

SENIORITY.
In the event of the absence of the Commodore, Vice-Commodore and Rear-Commodore, the oldest member of the Club, being at the time a yacht owner, shall be considered the senior officer and acting Commodore.

In case of resignation and re-election, the date of membership to commence from the time of re-election. Each member to be assigned a number in conformity thereto.

## CHAPTER XIV.

CHANGES IN YACHT OR OWNERSHIP.
Every member, upon buying or selling a yacht, changing her rig, dimensions or private signal, changing her from centre-board to keel, or from keel to centre-board, shall give a written notice of such change to the Sccretary.

## CHAPTER XV.

## notice of measurement.

Owners of yachts requiring measurement shall give notice in writing to the Measurer, specifying the time and place when and where their yachts may be measured; such time to be not less than twenty-four hours after delivery of said notice, and such place some convenient part of New York Harbor.

## CHAPTER XVI.

COMPENSATION.
The Measurer shall receive from the Treasurer ten dollars for the first measurement of any yacht, five dollars for any remeasurement, and ten dollars additional and his traveling expenses for a measurement away from the harbor of New York, which amounts shall be collected by the Treasurer from the owner or owners of yachts so measured ; except in the case of a measurement ordered by the Club.

The Secretary and Treasurer shall each be allowed three hun. dred dollars per annum for clerk hire.

## CHAPTER XVII. <br> MEASUREMENT FOR TIME ALLOWANCE.

Yachts shall be rated for time allowance according to the following system :

To the square root of the sail area, add the load water.line length and divide the sum by two.

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The result is the measurement for time allowance.
The measurement shall be obtained as follows :
A base line to be taken from a point midway between the jib topsail stay and the jibstay on bowsprit, or the flying jibstay on jibboom, in a straight line to the end of the main boom, with the excess of the length of gaff, measured from after side of mast to en 3 , over $80 \%$ of the topmast measured from homnds to lower side of sheave of topsail halyard block. .

The length of base line as above defined shall be modified in any case where the spinnaker boom measures more than the distance from the fore side of foremost in a schooner, or mainmast in a single masted vessel, to the forward point of base line as previously defined. Any excess in the length of spinnaker boom beyond this point shall be added to the base line. For yawls the base line to be taken from the same point to the end of the mizzen boom.

A perpendicular line to be taken along the after side of the mainmast from the under side of the sheave for gaff topsail halyard to the upper side of boom when resting on the saddle or on the lowest part of gooseneck, the distance of which point from main-deck or house-deck to be recorded by the measurer, together with the other points used in measurements.

To obtain the estimated area from these figures, multiply the base by the perpendicular and divide the product by two.

Length is the length on the L. W. L., exclusive of any portion of the rudder or rudder stock and is to be ascertained when the yacht is afloat and in her ordinary trim, and with the crew, if
aboard, stationed amidships. The measurer, at the time of making his measurement, to fix a distinctive mark at each point.

Any change in these measurements to be reported by the owners, as customary, to the measurer.

Allowances shall be calculated according to the table adopted by the Club.*

CHAPTER XVIII.

## REGATTA.

There shall be an annual Regatta in the month of June, over the Inside Course.

At the first General Meeting in each year, the time of said Regatta shall be determined. An appropriation shall be made at the same time for defraying the cost of prizes for the Regatta, and all other expenses appertaining thereto, which appropriation shall not be exceeded without the written consent of a majority of the officers of the Club.

If it be voted that a steamboat be provided by the Club for the use of its members and ladies accompanying them, tickets of ad. mission shall be sent to each member. These tickets shall not be transferable, and any member infringing this rule shall be liable to expulsion. Any yacht owner, however, whose vessel is duly entered for any Regatta, shall have the privilege of transferring his ticket, provided the name of the party to whom it is transferred be indorsed by the Secretary upon the back of the same. The Secretary shali be empowered to issue invitations to any person or persons, on a recommendation of a majority of the Flag Officers of the Club.

## CHAPTER XIX.

## COURSES.

Course No. 1.-Start across an imaginary line drawn from the Judge's boat anchored to the East of buoy No. 15, and about two

[^0]Cables length from it to buoy No. 10 near South West Spit, passing to the West and South of it ; thence South of buoy No. $8 \frac{1}{2}$ and North of buoy No. 5, off the Point of Sandy Hook, to Sandy Hook Light Ship, turning from the North and East, and returning over the same course.

Course No. 2.-The same as Course No. 1, substitnting Scotland Light Ship for Sandy Hook Light Ship.

All yachts must pass to the eastward of West Bank buoys Nos. 9,11 , and 13 , both going and returning.

Outside Course.-Start from an imaginary line, between buoy No. 10, near South West Spit, and a stake-boat anchored South of it ; thence South of buoy No. $8 \frac{1}{2}$ and North of buoy No. 5 off the point of Sandy Hook, to and around Sandy Hook Lightship, turning it from the North and East ; thence to and around a stake-boat anchored one-quarter of a mile South East from the buoy on Shrewsbury Rocks, turning it from the West and South.

## CHAPTER XX.

## YaCHTING SEASON.

The Yachting Season for all matches and races shall be limited to the period between the first of May and the first of November in each year.

## CHAPTER XXI.

MODELS.
The model of every yacht entered for a Regatta shall be the property of the Club, and retained in its posseasion, and no person other than a United States Naval Constructor, shall be permitted to copy it, except he shall have obtained written authority from the owner of the yacht; nor shall it be removed without authority from the Secretary of the Club, who shall keep, in a book provided for that purpose, a record of the same with full particulars relating to each model, and to any changes that may be made.

All models to be on a scale of three-eighths of one inch to the foot for all yachts of eighty feet water-line and over, and of one-
half of one inch to the foot for all yachts under 80 foot water-line ; but this rule as to scale shall not necessarily apply to any model in the possession of the Club at the time of the passage of this By-Law.

## CHAPTER XXII.

## DRAUGHTS AND LINES.

A complete draught of the lines of each yacht winning a prize in a Club race, shall be deposited with and become the property of the Club, under the same restrictions as to removals, etc., as apply in the case of models.

But no yacht shall be called upon to furnish such draught unless, in the opinion of the Regatta Committee, she shall have won entirely on her merits.

The lines to be taken off by the Measurer and at the outside of the planking or, if the lines are furnished by owner, to be verified by the Measurer.

The draughts to be on the same scale as for models and to be on paper, backed by linen, eighteen inches wide, and each draught to be accompanied by a statement from the owner or owners, giving full particulars, including spars, area of sails, ballast, etc., etc.

The Measurer shall receive from the Treasurer thirty-five dollars for each draught.

## CHAPTER XXIII.

## UNIFORM.

A uniform and dress shall be adopted by the Club and worn by the members of the Club and crews of the yachts when cruising.

## CHAPTER XXIV.

CLUB BOOKS.
There shall be printed each year, under the direction of the Secretary, books for the use of each member, containing the Constitution, By-Laws, Sailing Regulations, etc., of the Club, together
with a list of all the members, specifying their names, addresses, numbers, and the dates of their respective admissions, and also of the yachts belonging to the Club, with their dimensions, tonnage (old and Custom House Measurements), rig and ownership, as well as a chart of their private signals and the Club flags.

## CHAPTER XXV.

## STRANGERS.

A stranger not residing within fifty miles of this city, may be introduced by a member and entitled to the privileges of the Club for two weeks, upon the following conditions, viz: His name, together with that of the member introducing him, must be recorded in a book to be provided for that purpose, when an invitation card will be given, signed by either one of the officers of the Club or one of the House Committee, said card to be exhibited at the door when called for. This privilege may be extended, at the discretion of any one of the officers of the Club or any mem. ber of the Honse Committee. No persons residing in the city, or within fifty miles of it, except officers belonging to the Army and Navy of the United States, can be admitted to the Club House, except at private dinners, when they will only be admitted to the room in which the dinner is given. All members introducing strangers shall be responsible for all debts incurred by them to the Club.

## CHAPTER XXVI.

## EXPULSIONS.

In case of any occurrence injurious to the welfare of the Club, the name or names of any member or members implicated therein may be removed from the list of members by a vote of the majority of the yachts represented at any general or special meeting.

## CHAPTER XXVII.

## DUTIES OF LIBRARY COMMITTEE.

It shall be the duty of the Library Committee to have charge of the Charts, Books, and publications relating to nautical sub-
jects, of the Club, to prescribe rules for their use and to make additions when required and at the first General Meeting of each year they shall make a report stating the operation of the Committee during the preceding year, and what appropriation, if any should be made for the coming year.

## CHAPTER XXVIII.

forfeiture of membership.
In case a member should at any time become indebted to the Club in an amount exceeding ten dollars (exclusive of annual dues), and shall remain indebted for two months after notice given, he shall cease to be a member of the Club. The name of such delinquent shall be stricken from the list of members, and the Secretary shall notify him of the fact.

## CHAPTER XXIX.

RESIGNATIONS.
Resignations must be forwarded to the Secretary in writing and be presented by him at the next stated meeting of the Club. No resignation will be accepted until the member is clear from all indebtedness to the Club.

## CHAPTER XXX.

AMENDMENT.
These By-Laws may be amended at any meeting, but no amendment passed at any general or special meeting shall be valid until approved at a subsequent meeting and any amendment must be submitted at one general meeting, and after being adopted thereat must be kept posted until the next meeting in a conspicuous place in the Club-House by the Secretary.

There shall be no suspension of these By-Laws.

## RACING RULES.

MANAGEMENT OF RACES.
The following Racing Rules shall govern all the races of the Club, and any race sailed under its auspices unless otherwise specified between the parties making the race, but as no rules can be devised capable of meeting every incident and accident of sailing, it shall be the duty of the Regatta Committee to decide any question which may arise not provided for in these rules ; and all attempts to win a race by other means than fair sailing and superior speed and skill are to be discouraged.

## DECISIONS OF COMMITTEE.

The decisions of the Regatta Committee shall be final.

## RULE I.

Classification.
For Club races yachts shall be divided into classes as follows, but this classification shall not apply to races for any Challenge Cups held by or belonging to the Club.

## SCHOONERS.

Class 1. All over 100 feet L. W. L. length.
Class 2. All over 90 feet and not over 100 feet L. W. L. length.
Class 3. All over 80 feet and not over 90 feet L. W. L. length.
Class 4. All over 70 feet and not over 80 feet L. W. L. length.
Class 5. All of 70 feet L. W. L. length and under.

SLOOPS, CUTTERS AND YAWLS.
Class 1. All over 80 feet L. W. L. length.
Class 2. All over 70 feet and not over 80 feet L. W. L. length.
Class 3. All over 61 feet and not over 70 feet L. W. L. length.

Class 4. All over 53 feet and not over 61 feet L. W. L. length.
Class 5. All over 46 feet and not over 53 feet L. W. L. length.
Class 6. All over 40 feet and not over 46 feet L. W. L. length.
Class 7. All of 40 feet L. W. L. length and under.
Course No. 2. is intended for classes 6 and 7 of Sloops, Cutters and Yawls.

Any yacht which shall have been launched prior to the 20 th day of June, 1888, exceeding the higher limit in any Class by not over the fraction of a foot, shall be included in that Class.

## RULE II.

## MEASUREMENT FOR TIME ALLOWANCE.

Yachts shall be rated for time allowance according to the rules of measurement of the Club as per Chapter XVII By-Laws, and the time allowance must be calculated according to the table adopted by the Club, appended.

## RULE III.

MIXED RACES. ALLOWANCE FOR RIG.
In races where different rigs sail together, Schooners shall be rated for time allowance at eighty-five per cent. of their racing measurement, Yawls at ninety-four per cent. and Sloops and Cutters at their actual racing measurement.

## RULE IV.

> ownership.

No member shall be interested in more than one yacht entered for a race except in the case of a member who has chartered his yacht to another member.

CHARTERED YACHTS.
No yacht which has been chartered to a member shall be entered for a race unless she has been chartered, in good faith, for a period not less than two months.

## RULE V.

## ENTRIES.

No yacht can be entered for a Club race unless her ownership, rig, tonnage, dimensions and measurement for time allowance, as computed by the Measurer, in accordance with the rules of the Club, are on record with the Secretary, and a true model, or a draught of her lines, as per Chapter XXI of the By-Laws, deposited with him. Entries must be lodged with the Secretary of the Club, not later than forty-eight hours before the time of starting.

At least two yachts must start in each class, except first-class Sloops and Schooners, or no prize shall be awarded in that class, but any yacht, if entered alone in her class, can sail with yachts in the class above her, by assuming her load water line length to be that marking the lower limit of such class and her sailing length in such class to bear the same proportion to such assumed load water line length as her actual sailing length does to her actual load water line length.

## RULE VI.

## SAILS.

Yachts in races may carry the following sails:
Schooners-Mainsail, foresail, forestaysail, jib, flying jib, jibtopsail, fore and main gafi topsail, main topmast-staysail and spinnaker.

Sloops and Cutters-Mainsail, forestaysail, jib, flying jib, jib-topsail, gaff topsail and spinnaker.

Yatws-Same as Sloops and Cutters, with mizzen and mizzen staysail.

## BALLOON SAILS.

Yachts may set light sails over working sails.

## RULE VII.

BOATS AND LIFE-BUOYS.
Yachts in races shall carry on deck a serviceable round
bottomed boat, with oars and row-locks, or thole-pins, lashed in, as follows; also two serviceable life-buoys:

Class I Schooners-A boat not less than 14 feet in length.
Class II Schooners-A boat not less than 14 feet in length.
Class III Schooners and Class I Sloops, Cutters and YawlsA boat not less than 14 feet in length.

Class IV and V, Schooners and Class II, III, and IV, Slooops Cutters and Yawls-A boat not less than 12 feet in length.

## RULE VIII.

## BULKHEADS, BALLAST, ETC.

Yachts shall, during a race, keep their floors down and bulkheads standing. Trimming by dead weight shall be allowed up to the time of the starting signal, but not during the race.

Ballast shall not be taken in or discharged after 9 р. м. of the day before the race, and no water shall be started from, or taken into the tanks after that hour.

A race postponed or resailed shall, so far as regards this rule, be considered a new race.

## RULE IX.

## POSTPONEMENT OF RACE.

The Regatta Committe shall have the power to postpone any race should, in their judgment, unfavorable weather render such a course desirable.

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RACES RESAILED.
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Should any yacht duly entered for a race not start or, having started, should she withdraw, or be disabled, such yacht shall be entitled to start, in the event of the race being resailed.

## NEW ENTRIES NOT TO BE RECEIVED.

No new entries shall not be received under any circumstances for a postponed race.

RULE X.

## MEMBER ON BOARD.

There shall be a member of the Club on board each yacht sailing in a race.

DECLARATION THAT THE RULES HAVE BEEN OBSERVED.
Before the owner of a winning yacht can receive the prize, he or in his absence, the member representing him on the yacht, shall sign a declaration that all the rules were complied with.

## RULE XI.

PRIVATE SIGNAL.
Each yacht shall carry her private signal at the main peak during a race.

That a number be assigned by the Regatta Committee to each Yacht enrolled in the Club and placed opposite the name of each Yacht in the Club Book. Such numbers shall continue to be the official number of the Yacht to which it is assigned so long as such Yacht shall continue in the Club. Every Yacht entered in a Club Race or in a race to be sailed under the auspices of the Club, and also while in squadron cruise shall carry such assigned number displayed on its mainsail in a conspicuous place. This number shall be 30 inches square and be issued by the Club yearly to Yachts applying for the same, but no Yacht shall be entitled to more than one set at the expense of the Club in any one year, any Yacht loosing such number must supply itself without delay.

## RULE XII.

## LIGHTS AND FOG SIGNALS.

Yachts shall, during a race, nbserve the Government regulations regarding lights and fog signals.

## RULE XIII.

## PROPULSION.

No means of propulsion, except sails, shall be employed during a race.

## RULE XIV. <br> TIME OF RACE NOT LIMITED.

There shall be no limit to the time in which a race is to be sailed.

## RULE XV.

SOUNDING.
No other means of sounding than the hand lead and line shall be employed during a race.

## RULE XVI.

ANCHORING.
A yacht may anchor during a race, but must weigh her anchor again and not slip.

No yacht shall, during a race, make fast to any buoy, stage, pier, vessel, or other object, or send an anchor out in a boat, except for purposes specified in Rule XVII.

## RULE XVII.

RUNNING AGROUND, ETC.
A yacht running aground, or fouling a buoy, vessel, or other obstruction, may use her own anchors, boats, warps, etc., to get off, but may not receive any assistance, except from the crew of the vessel fouled.

Any anchor, boat, or warp so used, must be taken on board again before continuing the race.

## RULE XVIII.

man overboard, accidents.
In case of accident to another vessel, or of a man falling overboard from another vessel, all yachts in a position to do so shall use their utmost endeavors to render assistance, and if it should appear in the judgment of the Sailing Committee, that any yacht
was thereby prevented from winning the race, the Committee shall have the power to order the race to be re-sailed between such yacht and the actual winner.

## RULE XIX.

 STAKE-BOAT AT FINISH.A competent person shall be placed on a stake-boat at the finishing line, whose duty it shall be, in the absence of the Sailing Committee, to take the time of the yachts.

## RULE XX.

## REMOVALS OF MARKS.

Should any stake-boat, buoy, or other mark be absent or moved from its proper position during a race, the race may be re sailed or not at the option of the Sailing Committee.

## RULE XXI. YACHTS NOT IN RACES.

All yachts not racing must keep to leeward, and out of the way of racing-yachts.

## RULE XXII.

AMENABLE TO RULES.
All yachts in a race shall be amenable to the rules from the time the preparatory signal is given.

## RULE XXIII. TIME AT START AND FINISH.

The time at the start and finish shall be taken when the point marked by the foremast in schooners and the mainmast in singlemasted vessels and yawls, crosses the line.

If this point in any yacht be across the line when the signal for starting is given, she must return and recross the line.

A yacht so returning, or one working into position from the wrong side of the line after the signal for starting has been given, must keep clear of, and give way to all competing yachts.

## RULE XXIV.

RIGHT OF WAY.
(1.) When one yacht is approaching another yacht, so as to involve risk of fouling, one of them shall keep clear of the other as follows :

ON DIFFERENT POINTS OF SAILING.
(2.) A yacht free shall keep clear of one close-hauled.
on Same point of sailing, with wind on opposite side.
(3.) When both yachts are close-hauled or both free, or both have the wind aft, and have the wind on opposite sides, the yacht with the wind on the portside shall keep clear.

ON SAME POINT OF SAILING, WITH WIND ON SAME SIDE.
(4.) When both yachts are free, or both have the wind aft, and have the wind on the same side, the yacht to windward shall keep clear.

## WIND AFT.

(5.) A yacht with the wind aft is deemed to have the wind on the side opposite to that on which she is carrying her main boom.

## WIND AFT.

(6.) A yacht with the wind aft shall keep clear of a yacht on any other point of sailing.

## OVERTAKING.

(7.) An overtaking yacht, shall, in every case, as long as an overlap exists, keep clear of the yacht which is being overtaken.

## DEFINITION OF OVERLAP.

(8.) An overlap is established when an overtaking yacht has no longer a free choice on which side she will pass, and continues to exist as long as the leeward yacht by luffing, or the weather yacht, by bearing away, is in danger of fouling.

## ALTERING COURSE.

(9.) When of two yachts, one is obliged to keep clear, the other shall not so alter her course as to involve risk of fouling.

## LUFFING.

(10.) A yacht may luff as she pleases in order to prevent another from passing her to windward, provided she begins to luff before an overlap has been established.

## BEARING AWAY.

(11.) A yacht shall not bear away out of her course so as to hinder another in passing to leeward.

## RIGHTS OF NEW COURSES.

(12.) A yacht shall not become entitled to her rights on a new course until she has filled away.

## CONVERGING CLOSE-HAULED.

(13.) When two yachts, both close-hauled on the same tack, are converging by reason of the leeward yacht holding a better wind, and neither can claim the rights of a yacht being overtaken, then the yacht to leeward shall keep clear.

## PASSING AND ROUNDING MARKS.

(14.) If an overlap exists between two yachts when both of them, without tacking, are about to pass a mark on a required side, then the outside yacht must give the inside yacht room to pass clear of the mark. A yacht shall not, however, be justified in attempting to establish an overlap and thus force a passage between another yacht and the mark after the latter yacht has altered her helm for the purpose of rounding.

## DEFINITION OF MARK.

(15.) A mark is any vessel, boat, buoy or other object used to indicate the course, and does not in the preceding section involve any question of sea-room.

## OBSTRUCTION TO SEA-ROOM.

(16.) When a yacht is in danger of running aground, or of touching a pier, rock, or other obstruction, and cannot go clear by altering her course, without fouling another yacht, then this latter shall, on being hailed by the former, at once give room ; and in case one yacht is forced to tack or to bear away in order to give room, the other shall also tack, or bear away, as the case may be at as near the same time as is possible without danger of fouling.

## RULE XXV.

## DISQUALIFICATION.

(1.) Every yacht must go fairly around the course, and must not touch any mark, but shall not be disqualified if wrongfully compelled to do so by another.
(2.) Any yacht causing a mark-boat to, in any way, shift her position, to avoid being fouled by such yacht, shall be disqualified.
(3.) If a yacht, in consequence of her neglect of any of these rules, shall foul another yacht, or compel another yacht to foul any yacht, mark, or obstruction, or to run aground, she shall be disqualified and shall pay all damages ; and any yacht which shall wrongfully cause another to luff or to bear away, in order to avoid fouling, or shall, without due cause, compel another yacht to give room or to tack, under Section (16) of Rule XXIV, or shall herself fail to tack, or to bear away, as required in that section, or shall in any other way, infringe, or fail to comply with any of these rules, shall be disqualified.

## DISQUALIFICATION WITHOUT PROTEST.

(4.) The Regatta Committee may also, without a protest, disqualify any yacht, should it come to their knowledge that she has committed a breach of the rules.

## RULE XXVI.

## PROTEST.

Any yacht having cause during a race to protest against any other yacht for a violation of these rules, shall display in some conspicuous place Flag B, of the International Signal Code, which shall be known as the protest flag, and keep such flag flying till answered from the judge's boat, by the answering pennant. Any protest must be supplemented by stating the facts in writing and sent to the Regatta Committee before six P. m. of the day succeeding the race.

If through protest the measurement of any yacht be called in question, the Regatta Committee shall direct the Measurer to remeasure such yacht, and the result, as reported by him, shall be final. The Treasurer shall collect the usual fee for measuring, according to Chapter XVI of the By-Laws, from the owner, if the measurement be found wrong; from the party protesting if the measurement be found right.

## RULE XXVII.

PENALTIES.
Any yacht which shall twice in one season be disqualified by the Regatta Committee for violation of these rules, shall be debarred from sailing in the following race of the Club.

## RULE XXVIII.

AMENDMENTS .
These racing rules can be amended only at meetings in the notice of which the proposed amendment shall have been stated in full.

An amendment to become valid must have been passed at one meeting and approved at a subsequent meeting, one of which shall be a general meeting.

And no amendments which have been rejected at one meeting can be again proposed at any subsequent meeting within six months thereafter.

There shall be no suspension of these rules.

## Table of Time Allowance.

The allowances in this table are based upon the rule accepted by naval architects that, within economic limits, opportunities for speed vary in different vessels as the square roots of their respective lengths. As strong winds are required, however, to give to larger vessels the full extent of their advantage in size, and as such a scale of allowance is not adapted to ordinary summer racing, 50 per cent. only, of the allowance due to the rule is given in the table; and may be stated thus :

Time equals. $5\left\{\frac{3600}{\sqrt{ } / 1}-\frac{3600}{\sqrt{ } / L}\right\} ; 3600$ representing the number of seconds in an hour, 1 the small yacht, and $L$ the large one.

Practically the formula is $\frac{1800}{\sqrt{ } / 1}-\frac{1800}{\sqrt{ } / L}$; five-tenths of 3,600 being 1,800 .

## RULE FOR USING THE TABLE.

The figures to be found in the table show in seconds and hundredths of a second what a yacht of the measurement opposite to these figures would be allowed by one of 130 feet in sailing one natical mile.

To find what a yacht of any measurement should receive from a larger one, take the figures to be found opposite to the smaller measurement; from these subtract the figures opposite to the measurement of the larger yacht, and the difference multiplied by the number of nautical miles in the course, will give the amount of the allowance due to the smaller vessel, in seconds and hundreths of a second.

## EXAMPLE.

What time will a yacht of 70 feet racing length have to allow to one of 65 feet racing length, in a course of 20 nautical miles?

| The | time opposite 65 feet is | 65.40 |
| :---: | :---: | :---: |
| " | " ${ }^{\text {c }} 70$ ، | 57.29 |
|  | Difference, | 8.11 |
|  | Number of Nautical Miles | 20 |
|  | Allowance, | $\overline{162.20}$ |

For fractions of a foot in the measurement use the nearest tenth to be found in the table.

TIME ALLOWANCE FOR ONE NAUTIOAL MILE IN SECONDS AND DECIMALS.

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 30. | 170.77 | 34. | 150.84 | 88. | 134.14 | $4 \%$. | 119.89 | 46. | 107.54 |
| . 1 | 170.22 | . 1 | 150.38 | . 1 | 133.75 |  | 119.55 | . 1 | 107.25 |
| . 2 | 169.68 | . 2 | 149.93 | . 2 | 133.37 | . 2 | 119.22 | . 2 | 106.96 |
| . 3 | 169.14 | . 3 | 149.48 | . 3 | 132.99 | . 3 | 118.89 | . 3 | 106.67 |
| . 4 | 168.60 | .4 | 149.03 | . 4 | 132.61 | . 4 | 118.56 | . 4 | 106.38 |
| . 5 | 168.06 | . 5 | 148.58 | . 5 | 132.23 | . 5 | 118.23 | . 5 | 106.09 |
| . 6 | 167.53 | . 6. | 148.14 | . 6 | 131.85 | . 6 | 117.91 | . 6 | 105.80 |
| . 7 | 167.00 | . 7 | 147.70 | . 7 | 131.47 | . 7 | 117.59 | . 7 | 105.52 |
| . 8 | 166.48 | . 8 | 147.26 | . 8 | 131.10 | . 8 | 117.27 | . 8 | 105.24 |
| . 9 | 165.96 | . 9 | 146.83 | . 9 | 130.73 | . 9 | 116.95 | . 9 | 104.97 |
| 31. | 165.44 | 3.5 | 146.40 | 39. | 130.37 | 43. | 116.64 | 4 \%. | 104.70 |
| . 1 | 164.92 | .1 | 145.96 | . 1 | 130.00 |  | 11632 |  | 104.42 |
| . 2 | 164.40 | . 2 | 145.53 | . 2 | 129.63 | . 2 | 116.00 | . 2 | 104.14 |
| . 3 | 163.88 | . 3 | 145.10 | . 3 | 129.26 | . 3 | 115.68 | . 3 | 103.86 |
| . 4 | 163.36 | . 4 | 144.67 | . 4 | 128.89 | . 4 | 115.36 | . 4 | 103.58 |
| . 5 | 162.85 | . 5 | 144.24 | . 5 | 128.53 | . 5 | 115.04 | . 5 | 103.31 |
| . 6 | 162.34 | . 6 | 143.81 | . 6 | 128.17 | . 6 | 114.73 | . 6 | 103.04 |
| . 7 | 161.83 | . 7 | 143.39 | . 7 | 127.81 | . 7 | 114.42 | . 7 | 102.77 |
| . 8 | 161.33 | . 8 | 142.97 | . 8 | 127.45 | . 8 | 114.11 | . 8 | 102.49 |
| . 9 | 160.83 | . 9 | 142.55 | . 9 | 127.10 | . 9 | 113.81 | . 9 | 102.22 |
| 32. | 160.34 | 33. | 142.14 |  |  |  |  |  |  |
|  | 159.84 | . 1 | 141.72 | . 1 | 126.39 | . 1 | 113.19 | . 1 | 101.67 |
| . 2 | 159.34 | . 2 | 141.30 | . 2 | 126.03 | . 2 | 112.88 | . 2 | 101.40 |
| . 3 | 158.85 | . 3 | 140.89 | . 3 | 125.67 | . 3 | 112.57 | . 3 | 101.13 |
| . 4 | 158.36 | . 4 | 140.48 | . 4 | 125.32 | . 4 | [12.27 | . 4 | 100.86 |
| $\cdot 5$ | 157.87 | . 5 | 140.07 | . 5 | 124.97 | . 5 | 111.96 | . 5 | 100.59 |
|  | 157.38 | . 6 | 139.66 | . 6 | 124.62 | . 6 | 111.66 | . 6 | 100.32 |
| . 7 | 156.90 | . 7 | 139.26 | . 7 | 124.28 | . 7 | 111.36 | . 7 | 100.06 |
| . 8 | 156.43 | . 8 | 138.86 | . 8 | 123.93 | . 8 | 111.06 | . 8 | 99.81 |
| . 9 | 155.96 | . 9 | 138.46 | . 9 | 123.59 | . 9 | 110.76 | . 9 | 99.55 |
|  |  |  | 138.06 |  |  |  | 110.47 |  |  |
| . 1 | 155.01 | . 1 | 137.66 | . 1 | 122.90 | . 1 | 110.17 | . 1 | 99.02 |
| . 2 | 154.53 | . 2 | 137.26 | . 2 | 122.56 | . 2 | 109.87 | . 2 | 98.75 |
| . 3 | 154.06 | . 3 | 136.86 | . 3 | 122.22 | . 3 | 109.57 | . 3 | 98.49 |
| . 4 | 153.59 | . 4 | 136.46 | . 4 | 121.88 | . 4 | 109.27 | . 4 | 98.23 |
| . 5 | 153.12 | . 5 | 136.07 | . 5 | 121.54 | . 5 | 108.97 | . 5 | 97.97 |
| . 6 | 152.66 | . 6 | 135.68 | . 6 | 121.20 | - 6 | 108.68 | . 6 | 97.71 |
| . 7 | 152.20 | . 7 | 135.29 | . 7 | 120.87 | . 7 | 108.39 | . 7 | 97.46 |
| . 8 | 151.74 | . 8 | 13490 | . 8 | 120.54 | . 8 | 108.10 | . 8 | 97.20 |
| . 9 | 151.29 | . 9 | 134.52 | . 9 | 120.21 | . 9 | 107.82 | . 9 | 96.95 |


|  | $\begin{aligned} & \text { © } \\ & \text { H} \\ & \text { だ } \\ & \text { § } \end{aligned}$ |  | $\begin{aligned} & \dot{0} \\ & \text { ت̈ } \\ & \text { だ } \\ & \text { § } \end{aligned}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $5(1)$ | 96.70 | 55. | 84.85 | 60. | 74.52 | 65. | 65.40 | 81. | 57.29 |
|  | 96.44 | ． 1 | 84.63 |  | 74.32 |  | 65.22 |  | 57.13 |
| ． 2 | 96.18 | ． 2 | 84.41 | ． 2 | 74.12 | .2 | 65.05 | .2 | 56.97 |
| ． 3 | 95.93 | ． 3 | 84.19 | ． 3 | 73.93 | ． 3 | 64.88 | ． 3 | 56.81 |
| ． 4 | 95.68 | ． 4 | 83.96 | ． 4 | 73.74 | ． 4 | 64.71 | ． 4 | 56.66 |
| ． 5 | 95.42 | ． 5 | 83.75 | ． 5 | 73.55 | ． 5 | 64.54 | ． 5 | 56.51 |
| ． 6 | 95.17 | ． 6 | 83.53 | ． 6 | 73.36 | ． 6 | 64.37 | ． 6 | 56.36 |
| ． 7 | 94.92 | ． 7 | 83.31 | ． 7 | 73.17 | ． 7 | 64.20 | ． 7 | 56.21 |
| ． 8 | 94.67 | ． 8 | 83.09 | ． 8 | 72.98 | ． 8 | 64.03 | ． 8 | 56.06 |
| ． 9 | 94.43 | ． 9 | 82.88 | ． 9 | 72.79 | ． 9 | 63.87 | ． 9 | 55.91 |
| 51. | 94.19 | 56. |  | 61. | 72.61 | 66. | 63.71 | 81. | 55.76 |
| ． 1 | 93.94 | ． 1 | 82.45 | ． 1 | 72.42 | ． 1 | 63.54 | ${ }^{1} .1$ | 55.60 |
| ． 2 | 93.69 | ． 2 | 82.23 | ． 2 | 72.23 | ． 2 | 63.37 | ． 2 | 55.45 |
| ． 3 | 93.44 | ． 3 | 82.02 | ． 3 | 72.04 | ． 3 | 63.20 | ． 3 | 55.30 |
| ． 4 | 93.20 | ． 4 | 81.81 | ． 4 | 71.85 | ． 4 | 63.03 | ． 4 | 55.15 |
| ． 5 | 92.95 | ． 5 | 81.59 | ． 5 | 71.66 | ． 5 | 62.86 | ． 5 | 55.00 |
| ． 6 | 92.71 | ． 6 | 81.38 | ． 6 | 71.47 | ． 6 | 62.69 | ． 6 | 54.85 |
| ． 7 | 92.47 | ． 7 | 81.17 | ． 7 | 71.28 | ． 7 | 62.53 | ． 7 | 54.70 |
| ． 8 | 92.33 | ． 8 | 80.96 | ． 8 | 71.10 | ． 8 | 62.37 | ． 8 | 54.55 |
| ． 9 | 92.09 | ． 9 | 80.76 | ． 9 | 70.92 | ． 9 | 62.21 | ． 9 | 54.41 |
| 52. | 91.76 | $5 \%$. | 80.56 | 62. | 70.74 | 67. | 62.05 | 82. | 54.27 |
| ． 1 | 91.51 | ． 1 | 80.34 | ． 1 | 70.55 |  | 61.88 | ． 1 | 54.12 |
| ． 2 | 91.27 | ． 2 | 80.13 | ． 2 | 70.36 | ． 2 | 61.71 | .2 | 53.97 |
| ． 3 | 91.03 | ． 3 | 79.92 | ． 3 | 70.17 | ． 3 | 61.54 | ． 3 | 53.82 |
| .4 | 90.79 | ． 4 | 79.71 | ． 4 | 69.99 | ． 4 | 61.38 | ． 4 | 53.67 |
| ． 5 | 90.55 | ． 5 | 79.50 | ． 5 | 69.81 | ． 5 | 61.22 | ． 5 | 53.53 |
| ． 6 | 90.31 | ． 6 | 79.30 | ． 6 | 69.63 | ． 6 | 61.06 | ． 6 | 53.38 |
| ． 7 | 90.08 | ． 7 | 79.10 | ． 7 | 69.45 | ． 7 | 6090 | ． 7 | 53.23 |
| ． 8 | 8985 | ． 8 | 78.90 | ． 8 | 69.27 | ． 8 | 60.74 | ． 8 | 53.09 |
| .9 | 89.62 | ． 9 | 78.70 | ． 9 | 69.09 | ． 9 | 60.58 | ． 9 | 52.95 |
|  | 89.39 | 58. | 78.50 | 63. |  |  | 60.42 |  |  |
| ${ }^{\circ} \mathrm{C} .1$ | 89.15 | ${ }^{58}$. | 78.29 |  | 68.73 | ${ }^{68 .} 1$ | 60.25 | ${ }^{\text {\％}} .1$ | 52.66 |
| ． 2 | 88.91 | ． 2 | 78.08 | ． 2 | 68.55 | ． 2 | 60.09 | ． 2 | 52.51 |
| ． 3 | 88.68 | ． 3 | 77.87 | .3 | 68.37 | ． 3 | 59.93 | ． 3 | 52.37 |
| ． 4 | 88.45 | ． 4 | 77.67 | ． 4 | 68.19 | ． 4 | 59.77 | ． 4 | 52.23 |
| ． 5 | 88.22 | ． 5 | 77.47 | ． 5 | 68.01 | ． 5 | 59.61 | ． 5 | 52.09 |
| ． 6 | 87.99 | ． 6 | 77.27 | ． 6 | 67.84 | ． 6 | 59.45 | ． 6 | 51.95 |
| ． 7 | 87.76 | ． 7 | 77.07 | ． 7 | 67.66 | ． 7 | 59.29 | ． 7 | 51.81 |
| ． 8 | 87.53 | ． 8 | 76.87 | ． 8 | 67.48 | ． 8 | 59.14 | ． 8 | 51.67 |
| ． 9 | 87.31 | ． 9 | 76.68 | ． 9 | 67.31 | ． 9 | 58.99 | ． 9 | 51.53 |
| 54. | 87.09 | 5¢． | 76.49 | 64. | 67.14 | 69． | 58.84 | 84. | 51.39 |
| ． 1 | 86.86 | ． 1 | 76.28 | ． 1 | 66.96 | ． 1 | 58.68 | ． 1 | 51.24 |
| ． 2 | 86.63 | ． 2 | 76.08 | ． 2 | 66.78 | ． 2 | 58.52 | ． 2 | 51.09 |
| ． 3 | 86.40 | ． 3 | 75.88 | ． 3 | 66.60 | ． 3 | 58.36 | ． 3 | 50.95 |
| ． 4 | 86.18 | ． 4 | 75.68 | ． 4 | 66.43 | ． 4 | 58.20 | ． 4 | 50.81 |
| ． 5 | 85.95 | ． 5 | 75.48 | ． 5 | 66.26 | ． 5 | 58.04 | ． 5 | 50.67 |
| ． 6 | 85.73 | ． 6 | 75.28 | ． 6 | 66.08 | ． 6 | 57.89 | ． 6 | 50.53 |
| ． 7 | 85.57 | ． 7 | 75.09 | ． 7 | 65.91 | ． 7 | 57.74 | ． 7 | 50.39 |
| ． 8 | 85.29 | ． 8 | 74.90 | ． 8 | 65.74 | ． 8 | 57.59 | ． 8 | 50.25 |
| ． 9 | 85.07 | ． 9 | 74.71 | ． 9 | 65.57 | ． 9 | 57.44 | ． 9 | 50.12 |


|  |  |  |  |  | $\begin{aligned} & \text { © } \\ & \text { Ḧ } \\ & \text { E } \\ & \text { O } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \%5. | 49.99 | 81. | 43.39 | 85. | 37.36 | D0. | 31.86 | 95. | 26.80 |
| . 1 | 49.85 | . 1 | 43.26 | . 1 | 37.24 | . 1 | 31.75 | . 1 | 26.70 |
| . 2 | 49.71 | .2 | 43.13 | . 2 | 37.12 | . 2 | 31.64 | . 2 | 26.60 |
| .3 | 49.57 | .3 | 43.00 | . 3 | 37.00 | . 3 | 31.53 | . 3 | 26.50 |
| . 4 | 49.43 | . 4 | 42.87 | . 4 | 36.88 | . 4 | 31.42 | . 4 | 26.40 |
| . 5 | 49.29 | . 5 | 42.75 | . 5 | 36.77 | . 5 | 31.32 | . 5 | 26.30 |
| . 6 | 49.15 | . 6 | 42.62 | . 6 | 36.66 | . 6 | 31.22 | . 6 | 26.20 |
| . 7 | 49.01 | . 7 | 42.50 | . 7 | 36.55 | . 7 | 31.12 | . 7 | 26.11 |
| . 8 | 48.87 | . 8 | 42.38 | . 8 | 36.44 | . 8 | 31.02 | . 8 | 26.02 |
| . 9 | 48.74 | . 9 | 42.26 | . 9 | 36.33 | . 9 | 30.92 | . 9 | 25.93 |
| 76. | 48.61 | 81. | 42.14 | 8f. | 36.22 | 91. | 30.82 | 98. | 25.84 |
| . 1 | 48.47 | . 1 | 42.01 | . 1 | 36.10 | . 1 | 30.71 | . 1 | 25.74 |
| . 2 | 4833 | . 2 | 41.88 | . 2 | 35.99 | . 2 | 30.60 | . 2 | 25.64 |
| . 3 | 48.19 | . 3 | 41.76 | . 3 | 35.88 | . 3 | 30.49 | . 3 | 25.54 |
| .4 | 48.06 | .4 | 41.63 | .4 | 35.77 | .4 | 30.39 | . 4 | 25.44 |
| . 5 | 47.93 | . 5 | 41.51 | . 5 | 35.66 | . 5 | 30.29 | . 5 | 25.34 |
| . 6 | 47.80 | . 6 | 41.39 | . 6 | 35.55 | . 6 | 30.19 | . 6 | 25.25 |
| . 7 | 47.66 | . 7 | 41.27 | . 7 | 35.44 | . 7 | 30.09 | . 7 | 25.16 |
| . 8 | 47.53 | . 8 | 41.15 | . 8 | 35.33 | . 8 | 29.99 | . 8 | 25.07 |
| . 9 | 47.40 | . 9 | 41.03 | . 9 | 35.22 | . 9 | 29.89 | . 9 | 24.98 |
| 87. | 47.27 | 82. | 40.91 | 8\%. | 35.11 | D2. | 29.79 | 9\%. | 24.89 |
| . 1 | 47.13 | . 1 | 40.78 | . 1 | 35.00 | . 1 | 29.68 | . 1 | 24.79 |
| . 2 | 46.99 | . 2 | 40.66 | . 2 | 34.89 | . 2 | 29.57 | . 2 | 24.69 |
| . 3 | 46.86 | . 3 | 40.54 | . 3 | 34.78 | . 3 | 29.47 | . 3 | 24.59 |
| .4 | 46.73 | . 4 | 40.42 | . 4 | 34.67 | . 4 | 29.37 | . 4 | 24.50 |
| . 5 | 46.60 | . 5 | 40.30 | . 5 | 34.56 | . 5 | 29.27 | . 5 | 24.41 |
| . 6 | 46.47 | . 6 | 40.18 | -6 | 34.45 | . 6 | 29.17 | . 6 | 24.32 |
| . 7 | 46.34 | . 7 | 40.06 | . 7 | 34.34 | . 7 | 29.07 | . 7 | 24.23 |
| . 8 | 46.21 | . 8 | 39.94 | . 8 | 34.23 | . 8 | 28.97 | . 8 | 24.14 |
| . 9 | 46.08 | . 9 | 39.82 | . 9 | 34.12 | . 9 | 28.87 | . 9 | 24.05 |
| 88. | 45.95 | 83. | 39.70 |  | 34.01 |  |  |  |  |
| . 1 | 45.81 | . 1 | 39.58 | . 1 | 33.90 | ${ }^{\text {. }} 1$ | 28.67 | . 1 | 23.86 |
| . 2 | 45.68 | . 2 | 39.46 | . 2 | 33.79 | . 2 | 28.57 | . 2 | 23.76 |
| . 3 | 45.55 | . 3 | 39.34 | . 3 | 33.68 | . 3 | 28.47 | . 3 | 23.67 |
| .4 | 45.42 | . 4 | 39.22 | . 4 | 33.57 | . 4 | 28.37 | . 4 | 23.58 |
| . 5 | 45.29 | . 5 | 39.10 | . 5 | 33.46 | . 5 | 28.27 | . 5 | 23.49 |
| . 6 | 45.16 | . 6 | 38.98 | . 6 | 33.35 | . 6 | 28.17 | . 6 | 23.40 |
| . 7 | 45.03 | . 7 | 38.86 | . 7 | 33.24 | . 7 | 28.07 | . 7 | 23.31 |
| . 8 | 44.90 | . 8 | 38.74 | . 8 | 33.13 | . 8 | 27.97 | . 8 | 23.22 |
| . 9 | 44.78 | . 9 | 38.63 | . 9 | 33.02 | . 9 | 27.88 | . 9 | 23.13 |
| $70^{7}$ |  |  |  |  |  |  |  |  |  |
| . 1 | 44.53 | . 1 | 38.40 | ${ }^{89}$. | 3281 | ${ }^{\text {P4, }} 1$ | 27.69 | ${ }^{\text {. }} 1$ | 22.94 |
| . 2 | 44.40 | . 2 | 38.28 | . 2 | 32.70 | . 2 | 27.59 | . 2 | 22.84 |
| . 3 | 44.27 | . 3 | 38.16 | . 3 | 32.59 | . 3 | 27.49 | . 3 | 22.75 |
| . 4 | 44.14 | . 4 | 38.04 | . 4 | 32.48 | . 4 | 27.39 | . 4 | 22.66 |
| . 5 | 44.01 | . 5 | 37.92 | . 5 | 32.37 | . 5 | 2729 | . 5 | 22.57 |
| . 6 | 43.88 | . 6 | 37.80 | . 6 | 32.26 | . ${ }^{\text {j }}$ | 27.19 | . 6 | 22.48 |
| . 7 | 43.75 | . 7 | 37.69 | . 7 | 32.16 | . 7 | 27.09 | . 7 | 22.39 |
| . 8 | 43.63 | . 8 | 37.58 | . 8 | 32.06 | . 8 | 26.99 | . 8 | 22.30 |
| . 9 | 43.51 | . 9 | 37.47 | . 9 | 31.96 | . 9 | 26.89 | . 9 | 22.21 |


|  |  |  |  |  |  |  | $\begin{aligned} & \text { © } \\ & \text { H } \\ & \text { ® } \\ & \text { B } \\ & \text { B } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 100. | 22.12 | 105. | 17.79 | 110. | 13.75 | 15. | 9.97 | 120. | 6.45 |
| . 1 | 22.03 |  | 17.70 |  | 13.67 | 18. 1 | 9.89 | 12 | 6.38 |
| . 2 | 21.94 | . 2 | 17.61 | . 2 | 13.59 | . 2 | 9.81 | . 2 | 6.31 |
| . 3 | 21.85 | . 3 | 17.52 | . 3 | 13.51 | . 3 | 9.74 | . 3 | 6.24 |
| . 4 | 21.76 | . 4 | 17.44 | . 4 | 13.43 | . 4 | 9.67 | . 4 | 6.17 |
| . 5 | 21.67 | . 5 | 17.36 | . 5 | 13.35 | . 5 | 9.60 | . 5 | 6.10 |
| . 6 | 21.58 | . 6 | 17.28 | . 6 | 13.27 | . 6 | 9.53 | . 6 | 6.03 |
| . 7 | 21.49 | . 7 | 17.20 | . 7 | 13.19 | . 7 | 9.46 | . 7 | 5.96 |
| . 8 | 21.40 | . 8 | 17.12 | . 8 | 13.11 | . 8 | 9.39 | . 8 | 5.89 |
| . 9 | 21.32 | . 9 | 17.04 | . 9 | 13.04 | . 9 | 9.32 | . 9 | 5.82 |
| 101. | 21.24 | 106. | 16.96 | 111. | 12.97 | 116. | 9.25 | 121. | 5.76 |
| . 1. | 21.15 |  | 16.87 |  | 12.89 |  | 9.17 |  | 5.69 |
| . 2 | 21.06 | . 2 | 16.78 | . 2 | 12.81 | . 2 | 9.10 | . 2 | 5.62 |
| . 3 | 20.97 | . 3 | 16.70 | . 3 | 12.73 | . 3 | 9.03 | . 3 | 5.55 |
| . 4 | 20.88 | . 4 | 16.62 | . 4 | 12.65 | . 4 | 8.96 | . 4 | 5.48 |
| . 5 | 20.79 | . 5 | 16.54 | . 5 | 12.57 | . 5 | 8.89 | . 5 | 5.41 |
| . 6 | 20.70 | . 6 | 16.46 | . 6 | 12.49 | . 6 | 8.82 | . 6 | 5.34 |
| . 7 | 20.61 | . 7 | 16.38 | . 7 | 12.42 | . 7 | 8.75 | . 7 | 5.28 |
| . 8 | 20.52 | . 8 | 16.30 | . 8 | 12.35 | . 8 | 8.68 | . 8 | 5.22 |
| . 9 | 20.43 | . 9 | 16.22 | . 9 | 12.28 | . 9 | 8.61 | . 9 | 5.16 |
| 102. | 20.35 | 107. | 16.14 | 112. | 12.21 | $11 \%$. | 8.54 | 122. | 5.10 |
| . 1 | 20.26 | 1 | 16.06 | 11 | 12.13 |  | 8.47 | . 1 | 5.03 |
| . 2 | 20.17 | . 2 | 15.98 | . 2 | 12.05 | . 2 | 8.40 | . 2 | 4.96 |
| . 3 | 20.08 | . 3 | 15.90 | . 3 | 11.97 | . 3 | 8.33 | . 3 | 4.89 |
| . 4 | 19.99 | . 4 | 15.82 | . 4 | 11.89 | . 4 | 8.26 | . 4 | 4.82 |
| . 5 | 19.90 | . 5 | 15.74 | . 5 | 11.81 | . 5 | 8.19 | . 5 | 4.75 |
| . 6 | 19.81 | . 6 | 15.66 | . 6 | 11.74 | . 6 | 8.12 | . 6 | 4.68 |
| . 7 | 19.73 | . 7 | 15.58 | . 7 | 11.67 | . 7 | 8.05 | . 7 | 4.61 |
| . 8 | 19.65 | . 8 | 15.50 | . 8 | 11.60 | . 8 | 7.98 | . 8 | 4.54 |
| . 9 | 19.57 | . 9 | 15.42 | . 9 | 11.53 | . 9 | 7.91 | . 9 | 4.48 |
| 103. | 19.49 | 108. | 15.34 | 113. | 11.46 | 118. | 7.84 | 123. | 4.42 |
| - 10 | 19.40 | -108. | 15.26 | -13. | 11.38 | -18. 1 | 7.77 | - 1 | 4.35 |
| . 2 | 19.31 | . 2 | 15.18 | . 2 | 11.30 | .2 | 7.70 | . 2 | 4.28 |
| . 3 | 19.22 | . 3 | 15.10 | . 3 | 11.22 | . 3 | 7.63 | . 3 | 4.21 |
| . 4 | 19.13 | .4 | 15.02 | . 4 | 11.14 | . 4 | 7.56 | .4 | 4.14 |
| . 5 | 19.04 | . 5 | 14.94 | . 5 | 11.06 | . 5 | 7.49 | . 5 | 4.07 |
| . 6 | 18.96 | . 6 | 14.86 | . 6 | 10.99 | . 6 | 7.42 | . 6 | 4.01 |
| . 7 | 18.88 | . 7 | 14.78 | . 7 | 10.92 | . 7 | 7.35 | .7 | 3.95 |
| . 8 | 18.80 | . 8 | 14.70 | . 8 | 10.85 | . 8 | 7.28 | . 8 | 3.89 |
| . 9 | 18.72 | . 9 | 14.62 | . 9 | 10.78 | . 9 | 7.21 | . 9 | 3.83 |
| 104. | 18.64 | 109. | 14.54 | 114. | 10.71 | 110. | 7.14 | 124. | 3.77 |
| . 1 | 18.55 | . 1 | 14.46 | . 1 | 10.63 | .1 | 7.07 | . 1 | 3.70 |
| . 2 | 18.46 | . 2 | 14.38 | . 2 | 10.55 | . 2 | 7.00 | . 2 | 3.63 |
| . 3 | 18.37 | . 3 | 14.30 | . 3 | 10.47 | . 3 | 6.93 | . 3 | 3.56 |
| . 4 | 18.28 | . 4 | 14.2\% | . 4 | 10.39 | . 4 | 6.86 | . 4 | 3.49 |
| . 5 | 18.19 | . 5 | 14.14 | . 5 | 10.32 | . 5 | 6.79 | . 5 | 3.42 |
| . 6 | 18.11 | . 6 | 14.06 | . 6 | 1025 | . 6 | 6.72 | . 6 | 3.36 |
| . 7 | 18.03 | . 7 | 13.98 | . 7 | 10.18 | . 7 | 6.65 | . 7 | 3.30 |
| . 8 | 17.95 | . 8 | 13.90 | . 8 | 10.11 | . 8 | 6.58 | . 8 | 3.24 |
| . 9 | 17.87 | . 9 | 13.82 | . 9 | 10.04 | . 9 | 6.51 | . 9 | 3.18 |


|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 125. | 3.12 | 126. | 2.49 | $12 \%$. | 1.85 | 128. | 1.22 | 129. | 61 |
| . 1 | 3.05 |  | 2.42 | 12 1 | 1.78 | . 1 | 1.15 |  | . 54 |
| . 2 | 2.98 | . 2 | 2.35 | .2 | 1.71 | . 2 | 1.09 | . 2 | . 48 |
| . 3 | 2.91 | . 3 | 2.28 | . 3 | 1.64 | . 3 | 1.03 | . 3 | . 42 |
| . 4 | 2.85 | . 4 | 2.21 | . 4 | 1.58 | . 4 | . 97 | . 4 | . 36 |
| . 5 | 2.79 | . 5 | 2.15 | . 5 | 1.52 | . 5 | . 91 | . 5 | . 30 |
| . 6 | 2.73 | . 6 | 2.09 | . 6 | 1.46 | . 6 | . 85 | . 6 | . 24 |
| . 7 | 2.67 | . 7 | 2.03 | . 7 | 1.40 | . 7 | . 79 | . 7 | . 18 |
| . 8 | 2.61 | . 8 | 1.97 | . 8 | 1.34 | . 8 | . 73 | . 8 | . 12 |
| . 9 | 2.55 | . 9 | 1.91 | . 9 | 1.28 | . 9 | . 67 | . 9 | . 06 |
|  |  |  |  |  |  |  |  | 180. | . 00 |

## New York Yacht Club Signal Code.

Uniform with the Eastern and Seawanhaka Corinthian Yacht Clubs.

The signals in this Code consist chiefly of sentences needed by vessels of the fleet, which are not to be found in the International Code. They comprise :

General Signals (single letters, B to W).
Special Signals (two letters, B C to C N).
Days of the Week (two letters C P to D F).
Hours of the Day (two letters D G to G W).
Squadron Evolutions (two letters H B to J S).
Names of Places (two letters K B to W V).
Compass Signals (three letters D B C to D G W).
When intending to use the International Code in place of this Code, the regular signal indicative of the International Code, namely : the ensign hoisted over the Answering Pennant where it can best be seen, should be set and kept flying until acknowledged by the Answering Pennant. In the absence of this preliminary signal, it will be understood that the Club Code is being used.

## GENERAL SIGNALS.

B-(In all races, to be used as "Protest Flag." In all other cases, to be used for any special purpose as may be indicated in orders.)

C-Yes.
D-No.
F-Prepare to dress ship on signal.
G-Dress ship.
H -Leave of absence is requested.
$J$-Leave of absence is granted.
K -Captains and guests are invited to meet on board the flagship at _-
L-Boats recall.
M-Get under way.
N -Repair on board all hands belonging to this yacht.
P-Prepare to get under way.
CODE SIGNAL AND ANSWERING PENNANT.


Q-Surgeon is wanted on board immediately.
R-Steam yachts.
S-Schooners.
I-Sloops, cutters and yawls.
V-Captains report on board the flagship on coming to anchor.
W-Captains will meet on board the flagship at-

## SPECIAL SIGNALS.

B C-The fleet will proceed to-
B D-The fleet will not start at present.
B F-Proceed at will.
B G-Heave to off
B H—Start from
B J-Start for
B K-Where are we to anchor?
B L-Anchor at-
B M-Anchor for night at--
B N-Anchor at will.
B P-Return to anchorage.
B Q - Where are you from?
B R-Where are you bound?
B S-Have arrived from $\qquad$
B T-Am bound for-
B V-Cannot understand your signals.
B W--Repeat my signals.
C B--On signal from the flagship the course will be
C D-When will race come off?
C F-Race will come off.
C G-Race is postponed.
C H-Are you in need of assistance?
C J-Am disabled and need assistance.
C K-Send me a tug.
C L-The Fleet will remain at anchor to-day.
C M-Report on board at once.
C N-

The signal for Water Boat, White Flag with Water on it in black letters displayed at will.

## DAYS OF THE WEEK.

C P-Sunday.
C Q-Monday.
C R -Tuesday.
C S-Wednesday.
C T-Thursday.

C V-Friday.
C W-Saturday.
D B-Yesterday.
D C-To-day.
D F-To-morrow.

## HOURS OF THE DAY.

D G-12.00 Noon.
D H- 0.30 р. м.
D J- 1.00 "
D K-1.30 "
D L-2.00 "
D M- 2.30 "
D N-3.c0 "
D P-3.30 "
D Q - 4.00 "
D R-4.30 "
D S-5.00 "
D T- 5.30 "
D V- 6.00 "
D W- 6.30 "
F B- 7.00 "
F C--7.30 "
F D-8.00 "
F G-8.30 "
F H- 9.00 "
F J- 9.30 "
F K-10.00 "
F L-10.30 р. м.
F M-11.00 "
F N-11.30 "،

| F P-12.00 Midnight |  |
| :---: | :---: |
| F Q-12.30 A. M. |  |
| F R-1.0 | " |
| F S-1.30 | " |
| F T- 2.00 | " |
| F V-2.30 | " |
| F W- 3.00 | " |
| G B-3.30 | ، |
| G C- 4.00 | ، |
| G D-4.30 | " |
| G F-5.00 | ، |
| G H-5.30 | " |
| G J-6.00 | ، |
| G K-6.3 | ، |
| G L-7.00 | ، |
| G M-7.3 | ، |
| G N-8.00 | " |
| G P-8.3 | ، |
| G Q-9.00 | ، |
| G R-9.30 | ، |
| G S-10 0 | " |
| G T-10.3 | ، |
| G V-11.0 | ، |
| G W-11.3 | ، |

## SQUADRON EVOLUTIONS.

First order of Sailing


Fourth order of Sailing FLAG.
(8) (4) (2) (1) 3$)(3)$

## SQUADRON EVOLUTION.

Note: Yachts will commence to execute an evolution when the signal ordering it is hauled down.

H B-Anchor without regard to order of sailing.
H C-Bear away together at a right angle to present course.
H D-Bear up together at a right angle to present course.
H F-Bear up in succession in wake of leading vessel.
H G-Bear away in succession in wake of leading vessel.
H J-Close more the order of sailing.
H K-Commodore will lead, other vessels will follow, without regard to any particular order.
H L-Disregard my movements.
H M-Disregard all particular order of sailing.
H N-Fill away.
H P-Follow my movements.
H Q-Form the first order of sailing.
H R--Form the second order of sailing.
H S-Form the third order of sailing.
H T-Form the fourth order of sailing.
H V-Haul on the wind together at a right angle to present course.
H W-Haul by the wind on the starboard tack.
J B-Haul by the wind on the port tack.
J C-Heave to
J D-Increase distance between port and starboard divisions.
J F-Lessen distance between port and starboard divisions.
J G-Make more sail.
J H -Open more the order of sailing.
J K--Pay more attention to signals.
J L-Shall we shorten sail?
J M-Shorten sail.
J N-Squadron will pass in review to leeward of flagship.
J P--'Tack together.
J Q-Tack in succession, in wake of leading vessel.
J R-Wear together.
J S-Wear in succession, in wake of leading vessel.

## NAMES OF PLACES.

K B-Absecom Light, N. J.
K C-Annapolis.
K D—Baker's Island Light, Mt. Desert.
K F-Baltimore.
K G-Bangor, Me.
K H-Bar Harbor, Mt. Desert.
K J—Barnegat Light.
K L—Bartlett's Reef Lightship.
K M-Bath Me.
K N-Bass Harbor, Me.
K P—Bay Ridge, N. Y. Bay
K Q-Beaver Tail.
K R-Belfast, Me.
K S—Beverly, Mass.
K T-Black Rock Harbor, Conn.
K V-Block Island.
K W-Brenton's Reef Lightship.
L B-Bristol, R. I.
L C-Boon Island Light.
L D-Booth Bay, Me.
L F-Boston.
L G-Camden, Me.
L H-Campobello, N. B.
L J—Cape Ann.
L K-Cape Charles.
L M-Cape Cod.
L N-Cape Elizabeth.
L P-Cape Hatteras.
L Q-Cape Henlopen.
L R-Cape Henrs.
L S-Cape May.

L T-Cape Poge.
L V-Cape Sable.
L W-Captain's Island.
M B-Casco Bay.
M C-Casco Passage, Me.
M D-Castine, Me.
M F-Chatham Lights.
M G--City Island, N. Y.
M H-Clark's Point, Buzzard's Bay.
M J_-Cold Spring Harbor, L. I
M K-Coney Island.
M L-Cornfield Light.
M N-Cutler, Me, (Little River.)
M P-Cutty Hunk.
M Q-Deer Island Thoroughfare.
M R-Deerings Cove, Shelter Island.
M S-Delaware Breakwater.
M T-East Chop, Vineyard Haven.
M V-Eastport, Me.
M W-Eaton's Neck, L. I.
N B-Edgartown.
N C-Eggemoggin Reach.
N D-Egg Rock Light, Mt. Desert.
N F-Fall River.
N G-Faulkner's Island.
N H-Fire Island Light.
N J-Five Fathom Bank Lightship.
N K-Fort Pond Bay.

N L-Fortress Monroe.
N M-Fox Island Thoroughfare.
N P-Gardiner"s Island.
N Q-Gay Head.
N R-Glen Cove, LI.
N S-Gloucester.
N T-Grand Manan Island.
N V-Grand Manan Channel.
N W-Graves, The
P B-Gravesend Bay.
P C-Greenport.
P D-Half-way Rock, Marblehead.
P F-Half-way Rock, Portland.
P G-Halifax, N. S.
P H-Hampton Roads.
P J-Harding's Ledge.
P K-Head Harbor, Campobelle.
P L-Head Harbor, Me.
P M-Hen and Chickens Lightship, Buzzard's Bay.
P N-Highland Light, Cape Cod.
P Q-Horseshoe, Sandy Hook.
P R-Horton's Point Light, L. I.

P S-Hull.
P T-Huntington Bay.
P V-Hyannis.
P W-Isle of Shoals.
Q B-Kitlery.
Q C-LLarchmont, N. Y.
Q D-Little Gull Island.
Q F-Lloyd's Harbor, L. I.

Q G-Long Branch.
Q H-Machiasport.
Q J-Marblehead Harbor.
Q K-Marblehead Rock.
Q L-Matinicus Light.
Q M-Mattinicock Point, L. I.
Q N-Merchants' Row, Me.
Q P—M.ohegan, Me.
Q R-Monomoy.
Q S-Montauk Point.
Q T-Moos-a-bec Reach, Me.
Q V-Morris Cove, Conn.
Q W-Mount Desert Rock Light.
R B-Muscle Ridge Channel.
R C-Nahant.
R D-Nausett Beacons, Cape Cod.
R F-Nantasket Roads.
R G-Nantucket.
R H-Napeague.
R J-Narragansett Pier.
R K-New Bedford.
R L-Newburyport.
R M-New Haven.
R N-New London (Town).
R P-New London (Pequot House.)
R Q-Newport.
R S-New Rochelle.
R T-No Mans Land.
R V-Norfolk, Va.
R W-North East Harbor, Mt. Desert.
S B-North Haven, Me.
S C-Oak Bluffs.
S D-Old Field Light, L. I.
S F-Old Stage Harbor.

S G-Orient.
S H-Owls Head, Rockland, Me.
S J--Oyster Bay, L. I.
S K-Oyster Pond Point.
S L-Plum Gut.
S M-Plymouth.
S N-Point Judith.
S P-Pollock Rip Lightship.
S Q-Port Clyde, Me.
S R-Port Jefferson, L. I.
S T-Portland.
S V-Portsmouth.
S W-Providence.
T B-Provincetown.
T C-Quick's Hole.
T D-Quoddy Roads, Me.
T F-Race Point, Cape Cod.
T G-Race Rock Light.
T H-Richmond's Island, Portland.
T J--Riker's Island.
T K—Rockland, Me.
T L-Rockport, Me.
T M-Sag Harbor.
T N-Salem.
T P-Sandy Hook, N. J.
T Q-Sandy Hook Lightship.
T R-Sankaty Head Light.
T S-Saybrook.
T V-Seal Cove, Muscle Ridge Channel.
T W-Seal Island Light, N. S.
V B-Seguin Island.
V C-Scotland Lightship.
V D-Sheffield Island.
V F-Shelter Island (Manhansett House).

V G-Shinnecock Light.
V H-Smithtown Bay.
V J-Somes' Sound, Mt. Desert.
V K- South West Harbor, Mt. Desert.
V L--Sow and Pigs Lightship, Vineyard S'd.
V M—St. Joinns, N. B.
V N-Stamford, Conn.
V P-Stapleton, Staten Island.
V Q-Stonington.
V R-Stratford Light.
V S - Swampscott.
V T-Tarpauline Cove.
V W-Tennants Harbor, Me.
W B-Thatcher's Island Lights, Cape Ann.
W C-Thimble Islands.
W D-Throgg's Neck.
W F-Tompkinsville, Staten Island.
W G-Vineyard Haven.
W H-Watch Hill.
W J--West Chop, Vineyard Haven.
W K-West Harbor, Fishers Island.
W L-West Island.
W M—Whitestone, L. I.
W N-Winter Harbor, Me.
W P-Wood's Hole.
W Q-Wood Island, Me.
W R-.York Narrows, Me.
W S
W T
W V

COMPASS SIGNALS.

D B C-North.
D B F-N. $1 / 2 \mathrm{E}$.
D B G-N. by E.
D B H—N. by E. 1/2 E.
D B JーN. N. E.
D B K-N. N. E. 1/2 E.
D B L-N. E. by N.
D B M-N. E. $1 / 2$ N.
D B N-N. E.
D B P-N. E. $1 / 2$ E.
D B Q -N. E. by E.
D B R-N. E. by E. $1 / 2$ E.
D BS-E. N. E.
D B T-E. N. E. $1 / 2$ E.
D B V-E. by N.
D B W-E. $1 / 2 \mathrm{~N}$.
D C B-East.
D C F-E. $1 / 2$ S.
D C G-E. by S.
D C H-E. by S. $1 / 2 \mathrm{~S}$.
DCJ E.S. E.
D C K-S. E. by E. $1 / 2$ E.
D C L-S. E. by E.
D C M-S. E. $1 / 2$ E.
D C N-S. E.
D C P—S. E. $1 / 2$ S.
D C Q--S. E. by S.
D C R-S. S. E. $1 / 2$ E.
DCS-S.S. E
D CT—S. by E. $1 / 2$ E.
D C V-S. by E.
D C W-S. $1 / 2 \mathrm{E}$.

D F B-South.
D F C --S $1 / 2 \mathrm{~W}$.
D F G--S. by W.
D F H—S. by W. $1 / 2 \mathrm{~W}$.
D F J-S. S. W.
D F K-S. S. W. $1 / 2$ W.
D F L-S. W. by S.
D F M—S. W. $1 / 2 \mathrm{~S}$.
D F N—S. W.
D F P-S. W. $1 / 2 \mathrm{~W}$.
D F Q-S. W. by W.
D F R-S. W. by W. 1/2 W.
D F S-W. S. W.
D F T—W. by S. $1 / 2 \mathrm{~S}$.
D F V-S. by E.
D F W-S. $1 / 2 \mathrm{E}$.
D G B-West.
D G C-W. $1 / 2 \mathrm{~N}$.
D G F-W. by N.
D G H—W. N. W. $1 / 2 \mathrm{~W}$.
D G J—W. N. W.
D G K-N. W. by W. $1 / 2 \mathrm{~W}$.
D G L-N. W. by W.
D G M--N. W. $1 / 2 \mathrm{~W}$.
D G N-N. W.
D G P-N. W. $1 / 2 \mathrm{~N}$.
D G Q-N. W. by N.
D G R-N.N. W. $1 / 2 \mathrm{~W}$.
D G S-N. N. W.
D G T-N. by W. $1 / 2 \mathrm{~W}$.
D G V-N. by W.
D G W-N. $1 / 2 \mathrm{~W}$.

## YACHT ROUTINE.

## Uniform with the Eastern and Seawanhaka Corinthian Yacht Clubs.

## SECTION I.

COLORS, ETC.

1. In making "colors," salutes, etc., the yacht
2. Yachts in commission should hoist their

Rank.

In Commission.
3.

In Company with
a U.S. VesSEL, Etc.
4.

Entering Port Before or after Colors.
5.

Night Pennants. always represents the rank of the owner, whether he is aboard or not. colors at 8 o'clock a. m., and haul them down at sunset, taking time from the senior officer present.
When in company with a United States naval
6.

Guns.
No guns should be fired for colors except by the yacht giving the time ; nor from "colors" at sunset until " colors" the next morning, nor on Sunday.
7. Absent flags and meal pennants are not conExceptions.
8.

Half Masting Colors. sidered colors.

On Decoration Day and occasions of National mourning, the ensign only should be halfmasted. On the death of the owner of the yacht, both the club flag and his private signal should be half-masted, but not the ensign. When mourning is ordered for the death of a member of the Club, the Club flag only should be half-masted. This rule should apply to yachts both at anchor and underway.
9. Flags should always be mastheaded before Colors, How half-masting them and should be mastheaded Half-masted. before hauling them down. Saluting with the ensign at half-mast should be done by mastheading it first.

## SECTION II.

officers in command of anchorage.
1.

The senior officer present should be in com-

Duties.
2.

Station Vessel. mand of the anchorage, should give the time for "colors," make and return salutes, visits, etc., and his yacht should remain the station vessel until a senior to him in rank arrives and assumes the command of the anchorage.

## SECTION III.

PENNANTS, PRIVATE SIGNALS, ETC.

1. Flag Officers. while in commission.
2. Yachts, when the owner is not on board, Absence Flag. should fly at the main starboard spreader during daylight, a blue flag, rectangular in shape. This flag should never be flown when underway.
3. Single-masted vessels should fly the private Single-masted signal of the owner when entering a home port Vessels. of this Club, or when approaching other yachts at sea; at other times the Club flag except when with the squadron, when No. 5, Sec. VI, should apply.
4. A white flag, rectangular in shape, should be

Owner's Meal Pennant.
5. A red pennant should be flown at the foreport Crew's Meal Pennant.
1.

Commodore.
2.

Vice-Commodore. as provided for the Commodore, substituting red lights in place of blue.
3. The Rear-Commodore should show lights, as Rear-Commodore. provided for Commodore, substituting white lights in place of blue.
4. Captains, when on board, should show a Captains. white light under the main boom ; when absent, this light should be extinguished.

## SECTION V.

## SALUTES.

All salutes should be returned in kind.

1. The following rules should not apply to Exceptions. yachts leaving for or returning from a day's sail.
2. Yachts should always salute vessels of the

To Vessels of the U.S. Navy. Visits. Passing.
3. The Commodore, on entering port to join Entering Port. the squadron, should be saluted on coming to anchor, by the yachts present. On all other occasions, the Commodore should be saluted, on coming to anchor, by the officer in command.

Junior flag officers should be saluted, on coming to anchor, by the officers in command, unless the latter be a senior in rank, in which case they should salute him.

Captains should, on all occasions, salute the officer in command.
4. The senior officer, when leaving the anchorLeaving Port. age, excepting temporarily, should indicate the transfer of command to the next in rank, by firing a gun on getting under way. All other yachts should salute the officer in command.
5. All visits should be made according to
6. Yachts passing one another should always United States Navy by dipping the ensign once. rank. exchange salutes by dipping the ensign once, juniors saluting first.

Steam whistles should never be used to make salutes.
7. The salute from yachts entering port should From Yachts En- be made by dipping the ensign once or by firtering Port. ing a gun, on letting go anchor.
8. The salute to yachts entering port, entitled To Yachts En- to a salute, should be made by dipping the entering Port sign once, or by firing a gun, when they let go Entitled to anchor.
a Salute.
9 An official salute to a foreign club should be Official Salutes made by firing a gun with the flag of the to Foreign foreign club at the fore on schooners and Clubs.
10. The salute from or to yachts arriving after steamers, and at the main on single masted vessels, or, in the absence of such flag, by halfmasting the Club flag and firing a gun. When the salute has been returned, or a reasonable time for its return allowed, the flag should be hauled down and the Club flag hoisted again. After Sunset, etc. sunset, or on Sunday, should be made immediately after "colors " on the following morning.
11. When a flag officer makes an official visit, a Personal Salutes gun should be fired with his pennant at the to Flag Of- fore on schooners and steamers, and at the FICERS. main on single masted vessels, while he remains on board.
12. When a distinguished guest of another club Personal Salutes or nationality is aboard a schooner rigged yacht to Strangers. the distinctive flag of such foreign club or nation should be flown at the fore and the flag of the New York Yacht Club at the main, while he is on board.
13. A yacht acting as judge's boat should not be

Judge's Boat.
14.

Quakter-deck. saluted during a race.

- The quarter-deck should always be saluted by lifting the cap on coming on board or from below.


## SECTION VI.

WITH THE SQUADRON.

1. Yachts should report to the commanding offiJoining or Part- cer on joining the squadron aud should obtain ing Company. his permission before leaving it.
2. 

When under way, with the squadron, firing Guns and Signals. guns and signalling should be avoided except when joining or parting company, or when repeating signals.
3. When squadrons of different clubs meet at Squadrons Passing sea, salutes should be exchanged only by the at Sea. commanding officers.
4. Salutes from single yachts at sea should Salutes from only be answered by the flag-ship.

Single Yachts.
5. Single-masted vessels should fly the private Single-Masted signal of the owner when under way with the Vessels. squadron ; when at anchor, the Club flag.

## SECTION VII.

FOREIGN YACHTS.
When a foreign yacht arrives, the senior officer present should send on board, without regard to rank, a tender of the civilities of the Club.

## SECTION VIII.

VISITING A FOREIGN PORT.

1. Yachts should salute on entering port in the Salutes and Vis- home waters of a foreign club, where any of its its on Enter- fleet are lying. After the tender of civilities ing Port. has been made, owners of the entering yachts should visit the officer in command of the
anchorage. All other visits should be made according to rank, visits to their equals in rank being made by the owners of the entering yachts.
2. 

Both Squadrons in Port.
3.

Colors.
If the squadron of this Club be at anchor also, the salute should be made to its commanding officer, unless it be a senior flag officer of this Club entering; when he should be saluted by the officer in command, and should in his turn salute the foreign squadron.
3. The time_for "colors" in the home waters of a foreign club should be given with its senior flag officer present.
4. The term "foreign" should be understood as Meaning of Term applying to all clubs outside of the waters of "Foreign." New York and Newport harbors, and Long Island Sound.

## SECTION IX.

## BOAT SERVICE.

1. The order of entering and leaving boats isPrecedence. juniors enter first and leave last.
2. Flag officers and the fleet captain should fly Boat Flags.
3. Passing one another, juniors should salute Salutes.
4. 

Hailing. their pennants and captains their private signals, when in their boats; members, the Club flag. After sunset a white light should be shown at the bow. seniors by raising the cap.

Every boat approaching a yacht at night should be hailed.
5.

The answer of the Commodore, when intendAnswers to Boat ing to board, should be "Commodore"; for Hails. junior flag officers and the fleet captains, "Flag"; for captains and members, "Aye, aye"; for captains returning on board, the name of their yacht; for visitors, "Visitors"; for sailing-masters, etc., "No, no," using the port side; for passing boats, "Passing."

## UNIFORM AND DRESS.

FULL DRESS.
Butrons.-The Club buttons shall be of two kinds, gilt and black; and of three sizes-large, medium, and small-bearing as a device, a Foul Anchor, with a star on each side, surrounded by the circular inscription "New Yori Yacht Club " on the gilt buttons for sailing masters, etc., and the same on the black buttons for members.

Caps.-Cap of navy blue cloth, crown from eight inches to eight and seven-eighth inches in diameter, according to size of cap, quarter of cap from top of band to crown seam one and fiveeighth inches, band one and three-eighth inches, drooping Visor, crescent shape, two inches at widest part, covered with blue cloth, bound with braid to match band of cap.

Cap Ornaments.-To be as follows :
For Commodore.-A Foul Anchor, one inch and a half in length, placed horizontally, embroidered in gold, with a silver star of half an inch diameter at each end of and one above the anchor; with a space of three-sixteenths of an inch between the anchor and stars.

For Vice-Commodore.-Same as for Commodore, substituting a star below in lieu of the two stars at either end of the anchor.

For Rear-Commodore. - Same as for Commodore, omitting the two stars at either end of the anchor.

For Captain.-Two crossed Foul Anchors, of one inch and a half in length, with stocks below, cable entwined, embroidered in gold.

For Fleet Captain.-Same as for Captain, with F. C. in silver in Old English.

For Secretary.-Same as for Rear-Commodore, substituting the letter S, in Old English, in silver, in lieu of star.

For Treasurer.-Same as for Secretary, substituting the letter T, in Old English, in lieu of S.

For Measurer.-Same as for Secretary, substituting the letter M, in Old English, in lieu of S.

For Fleet-Surgeon.-Same as for Secretary, substituting the letters M. D., in Old English, in lieu of S.

For Member.-Sameas for Secretary, omitting the letter.
Dress Coat, Etc.-A plain blue or black dress coat; a white dress vest, each with the Club button in gilt ; blue or white trousers, with cravat, black or white.

## UNDRESS.

Doubled-Breasted Sack Coat of blue cloth, serge or flannel blue or white Vest, each with the black Club button. Trousers of the same materials as coat, or of white drill.

## DESIGNATION OF RANK.

The designation of rank shall be worn on the sleeve, as follows:
By the Commodore.-Five stripes of heavy black silk tubular braid, three-eighths of an inch wide, the first below and joining the cuff seam, the others above and one-quarter of an inch apart, the upper stripe ending in a described trefoil on the outer side of the sleeve.

By the Vice.Commodore.-Four stripes as above.
By the Rear-Commodore.-Three stripes ; by Captain, Secretary, Treasurer, Measurer, Fleet Surgeon and Fleet Captain, two stripes; and by all other Members, one stripe. The designation of each grade to contain the stripe with the trefoil.

## UNIFORM FOR OFFICERS AND CREW.

For Suiling Masters, the dress shall be a single-breasted Sack Coat, of blue cloth or flannel, with large size gilt Club buttons.

Vest of same material, with six medium size gilt Club buttons. Trousers of same material as coat. Cap of navy blue cloth with ribbed silk band one and one-quarter inches wide ; to be two and three-quarter inches high in front, and two and one-half inches high behind. Top to be eight and one-half inches long and seven and one-half inches wide. Visor of black leather, crescent shape, one and five-eighth inches in the widest part, set at an angle of forty-five degrees. Black leather strap, three-eighths inches wide, fastened with small gilt Club buttons. Cravat of black silk.

They shall wear upon the right sleeve in front and above the elbow, a foul anchor, worked in silver thread, two and one-half inches in length.

For Mates.-Same as for Sailing Masters, but the foul anchor shall be worn as above described on the left sleeve.

For Boatswains.-The regulation Boatswains jacket, and on the right sleeve an Eagle worked in silver thread, one and onehalf inches high. Cap same as Sailing Masters. Shirt, Trousers, Neckerchief, same as Quartermaster.

For Quartermasters.-SHirt of blue flannel or white linen, with wide blue cuffs and collar, braided in white. Trousers of same material as shirt, to be worn without braces. Neckerchief of black silk. Cap of blue cloth, with band and without visor, or white Senat straw hats, with black ribbon. The name of the Yacht may be worked in red, white or blue upon the breast of the shirt, or worked or printed upon the band or cap, at option of the owner.

They shall wear on the right sleeve for the starboard watch, and on the left sleeve for the port watch, binocular glasses worked in white silk thread, one and one-half inches in length.

For Coxswains.-Same as for Quartermasters, except on the right sleeve, a pair of crossed oars, worked in white thread, two inches in length.

For Crew.-Same as for Quartermasters but without insignia.
For Chief Engineers.-Same as for Sailing Masters, but on the right sleeve a Maltese Cross, worked in silver thread, one and onehalf inches in length.

For Assistant Engineers.-Same as for Mates, but on the left sleeve, a three-bladed Propeller, worked in silver thread, one and one-half inches in diameter.

Yachts, while cruising in foreign waters, may adopt other distinctions of rank for Sailing Masters, under officers, etc.

## RULES AND REGULATIONS

## GOVERNING RACES FOR THE

## NEW YORK YACHT CLUB CHALLENGE CUPS.

## THE AMERICA'S CUP.

This Deed of Gift, made the twenty-fourth day of October, one thousand eight hundred and eighty-seven, between George L. Schuyler, as sole survivor owner of the Cup won by the yacht America, at Cowes, England, on the twenty second day of August, one thousand eight hundred and fifty-one, of the first part, and The New Yori Yacht Club, of the second part. WITNESSETH :--

That the said party of the first part, for and in consideration of the premises and of the performance of the conditions and agreements hereinafter set forth by the party of the second part, has granted, bargained, sold, assigned, transferred and set over, and by these presents does grant, bargain, sell, assign, transfer and set over, unto the said party of the second part, its successors and assigns, the Cup won by the schooner yacht America, at Cowes, England, upon the twenty-second day of August, 1851. To have and to hold the same to the said party of the second part, its successors and assigns, in trust, nevertheless, for the following uses and purposes:-

This Cup is donated upon the condition that it shall be preserved as a perpetual Challenge Cup for friendly competition between foreign countries.

Any organized Yacht Club of a foreign country, incorporated, patented or licensed by the legislature, admiralty or other executive department, having for its annual regatta an ocean water course on the sea, or on an arm of the sea, or one which combines both, shall always be entitled to the right of sailing a match for this Cup, with a yacht or vessel propelled by sails only and constructed in the country to which the Challenging Club belongs,
against any one yacht or vessel constructed in the country of the Club holding the Cup.

The competing yachts or vessels, if of one mast, shall be not less than sixty-five feet nor more than ninety feet on the load water line ; if of more than one mast, they shall be not less than eighty feet nor more than one hundred and fifteen feet on the load water line.

The Challenging Club shall give ten months' notice in writing, naming the days for the proposed races ; but no race shall be sailed in the days intervening between November first and May first. Accompanying the ten months' notice of challenge, there must be sent the name of the owner and a certificate of the name, rig and. following dimensions of the challenging vessel, namely : length on load water line; beam at load water line and extreme beam; and draught of water; which dimensions shall not be exceeded; and a custom house registry of the vessel must also be sent as soon as possible. Vessels selected to compete for this Cup must proceed under sail, on their own bottoms, to the port where the contest is to take place. Centreboard or sliding keel vessels shall always be allowed to compete in any race for this Cup, and no restriction nor limitation whatever shall be placed upon the use of such centreboard or sliding keel, nor shall the centreboard or sliding keel be considered a part of the vessel for any purposes of measurement.

The Club challenging for the Cup and the Club holding the same, may, by mutual consent, make any arrangements satisfactory to both as to the dates, courses, number of trials, rules and sailing regulations, and any and all other conditions of the match, in which case also the ten months' notice may be waived.

In case the parties cannot mutually agree upon the terms of a match, then three races shall be sailed, and the winner of two of such races shall be entitled to the Cup. All such races shall be on ocean courses, free from headlands, as follows: The first race, twenty nautical miles to windward and return ; the second race, an equilateral triangular race of thirty-nine nautical miles, the first side of which shall be a beat to windward ; the third race (if necessary), twenty nautical miles to windward and return ; and
one week day shall intervene between the conclusion of one race and the starting of the next race. These ocean courses shall be practicable in all parts for vessels of twenty-two feet draught of water, and shall be selected by the Club holding the Cup; and these races shall be sailed subject to its rules and sailing regulations so far as the same do not conflict with the provisions of this deed of gift, but without any time allowances whatever. The challenged Club shall not be required to name its representative vessel until at the time agreed upon for the start, but the vessel when named must compete in all the races, and each of such races must be completed within seven hours.

Should the Club holding the Cup be for any cause dissolved, the Cup shall be transferred to some Club of the same nationality, eligible to challenge under this deed of gift, in trust and subject to its provisions. In the event of the failure of such transfer within three months after such dissolution, said Cup shall revert to the preceding Club holding the same, and under the terms of this deed of gift. It is distinctly understood that the Cup is to be the property of the Club subject to the provisions of this deed, and not the property of the owner or owners of any vessel winning a match.

No vessel which has been defeated in a match for this Cup can be again selected by any Club as its representative until after a contest for it by some other vessel has intervened, or until after the expiration of two years from the time of such defeat. And when a challenge from a Club fulfilling all the conditions required by this instrument has been received, no other challenge can be considered until the pending event has been decided.

AND the said party of the second part hereby accepts the said Cup subject to the said trust, terms and conditions, and hereby covenants and agrees to and with said party of the first part that it will faithfully and fully see that the foregoing conditions are fully observed and complied with by any contestant for the said Cup during the holding thereof by it ; and that it will assign, transfer and deliver the said Cup to the foreign yacht Club whose representative yacht shall have won the same in accordance with the foregoing terms and conditions, provided the said foreign

Club shall, by instrument in writing lawfully executed, enter with said party of the second part into the like covenants as are herein entered into by it, such instrument to contain a like provision for the successive assignees to enter into the same covenants with their respective assignors, and to be executed in duplicate, one to be retained by each Club, and a Copy thereof to be forwarded to the said party of the second part.

IN WITNESS WHEREOF, the said party of the first part has hereunto set his hand and seal, and the said party of the second part has caused its corporate seal to be affixed to these presents and the same to be signed by its Commodore and attested by its Secretary, the day and year first above written.

GEORGE L. SCHUYLER, [u. s.]<br>THE NEW YORK YACHT CLUB.<br>> By Elbridge 'T. Gerri, Commodore. John H. Bird, Secretary.

In the presence of

> H. D. HAMIL'ION.
[Seal of the New York Yacht Club.]

## NEW YORK YACHT CLUB COURSE CUPS.

Presented by Ex-Commodore James Gordon Bennett, 1872.

$$
\text { Cup No. } 1
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will be offered to the Schooner Yachts of the New Yori Yacht Club, to be sailed for at the June Regatta, over the usual courseviz : from the anchorage of Staten Island to and around the LightShip off Sandy Hook, and return. Said Cup to be held by the winner for the term of thirty days after the race without liability to challenge. Upon the expiration of said period, the winner of the Cup must accept any challenge sent by a member of said Club, and be prepared to sail a race over the same course, or such
other course as may be designated by the annually elected Regatta Committee of the New York Yacht Club, or, in the absence of the members thereof, by a Committee appointed by the Commodore of said Club, or of the Senior Officer present, within the usual cruising limits of the New York Yacht Club Squadron, and of equal distance (say not over forty statute miles), within the space of fifteen days next ensuing the receipt of such challenge, or forfeit the Cup to the challenger. During the time in which the yachts are sailing in squadron, such race must be sailed upon a notice of five days, instead of fifteen days, as above required.

Should any yacht succeed in holding the Cup in two consecutive races during one season, the winner thereof will not again be liable to challenge until the commencement of the yachting seasnn of the next year ensuing.

The races will be sailed according to the rules of the New York Yacht Club, with the time allowance.
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will be offered to the Sloop Yachts of the New York Yacht Club, to be sailed over such a course and at such a time as may be designated by the Regatta Committee, or by such other as is provided for above, and to be run and held upon the same conditions as the Cup for the Schooner Yachts.

## THE CAPE MAY CHALLENGE CUP.

The course for the Cape May Challenge Cup presented to the Club in 1872, by James Gordon Bennett, Esq., is established as follows:

From an imaginary line between the Judges' Steamer and Buoy No. 5, off Sandy Hook, to and around the Five Fathom Light-Ship, off Cape May, leaving it on the port or starboard hand, at will, and back to Sandy Hook Light-Ship, passing the same to the southward and eastward within one hundred yards distance.

The Cup will be awarded subject to the following conditions as expressed in the letter of the donor :

1st.-It is to be held by the winner for thirty days after the race, without liability to challenge.

2d.-Upon the expiration of that period, the winner must accept any challenge, and be prepared to sail a race over the same course within fifteen days from the receipt of such challenge, or forfeit the Cup to the challenger ; but should any Yacht succeed in holding the Cup in two consecutive races during one season, it will not again be liable to challenge until the commencement of the Yachting season of the following year. The Cup will become the bona fide property of any Yacht holding it successfully through three consecutive contests.

3d.-The Yachting season in American waters, in reference to this Cup, is understood to be from the third Thursday in June until the third Thursday in October in each year.

4th. -Should a Yacht holding un. ~ ' sold out of the New Yori Yacht Club, the Cup shall not go ...un her, but shall be returned to the Club, to be again sailed for; and if the Cup should be held by a foreign Yacht, and she should be sold out of the Club to which she belongs, the Cup shall not be sold with her, but shall be returned to the New Yori Yacht Club, to be sailed for again as above provided.

5th-In the event of the Cup being held at the close of a season by a foreign Yacht, the owner thereof will be liable to challenge during the season of the next year for an ocean race, over a course from the Needles, Isle of Wight, to and around a stakeboat off the harbor of Cherbourg, and return.

## BRENTON REEF CUP.

This Cup will be offered to the Yachts of All Nations, to be sailed for in an Ocean Race, on a course from the Light-ship off Newport to and around the Light-ship off Sandy Hook and out-
side of Long Island, and return. Said Cup to be held by the winner for the term of thirty days after the race without liability to challenge. Upon the expiration of said period, the winner of the Cup must accept any challenge, and be prepared to sail a race over the same course within the space of fifteen days next ensuing the receipt of such challenge, or forfeit the Cup to the challenger. Should any Yacht succeed in holding the Cup in two consecutive races during one season, the owner thereof will not again be liable to challenge until the commencement of the yachting season of the year next ensuing.

In the event of the Cup being held at the close of the season by a foreign yacht, the owner thereof will be liable to challenge during the season of the year ensuing, for an Ocean Race over a course from the Needles, Isle of Wight, to and around a stake-boat off the harbor of Cherbourg, and return.

The Ocean Races for the Brenton Reef Cup will be sailed according to the rules of the New Yori Yachi Club, but without allowance for time.

It is understood that in case any yacht holding one of the be-fore-mentioned Challenge Cups shall be sold out of the New York Yacht Squadron, the Cup is not disposed of with her, but must be returned to the New Yori Yacht Club, to be sailed for again in the manner and form before provided for the schooners and sloups and for the ocean races.

It is also understood that in case a foreign yacht should hold the Challenge Cup, and should be sold out of a Royal Yacht Club, the Cup is not sold with her, but must be returned to the New York $Y_{\text {ICht }}$ Club, to be sailed for again in an ocean race as above provided.

The yachting season in American waters for the before-named Challenge Cups will be from the third Thursday in June until the third Thursday in October.

Upon each of the Challenge Cups there shall be engraved the names of those yachts and the owners thereof that have held the same ; and a die, with appropriate devices thereon, shall be en-
graved, from which medals can be struck, to be held by the owners of those yachts which have been successful in competing for any of the before-mentioned prizes.

Note.-At a General Meeting of the New York Yacht Club, held March 23d, 1876, the following resolution was adopted :
"Resolved: That under the sanction of Ex-Commodore Bennett, the following be added to the conditions under which the Brenton's Reef and Cape May Challenge Cups, presented by him, shall be held hereafter--
"Any Yacht challenging the holder must deposit five hundred (500) dollars with the Regatta Committec, to be forfeited in case the challenging party is not successful in winning, otherwise to be returned to him. If forfeited, to be invested in a cup to become the property of the challenged party."

## U. S. REVISED STATUTES § 4214 AS AMENDED BY ACT OF MARCH 3, 1883.

## (22 U. S. Statutes at Large, 566.)

"Sec. 4214. The Secretary of the Treasury may cause yachts used and employed exclusively as pleasure vessels or designed as models of naval architecture, if built and owned in compliance with the provisions of sections forty-one hundred and thirtythree to forty-one hundred and thirty-five, to be licensed on terms which will authorize them to proceed from port to port of the United States, and by sea to foreign ports, without entering or clearing at the Custom House, such license shall be in such form as the Secretary of the Treasury may prescribe. The owner of any such vessel, before taking out such license, shall give a bond in such form and for such amount as the Secretary of the Treasury shall prescribe, conditioned that the vessel shall not engage in any trade, nor in any way violate the revenue laws of the United States; and shall comply with the laws in all other respects. Such vessels so enrolled and licensed, shall not be allowed to transport merchandise or carry passengers for pay. Such vessels
shall have their name and port placed on some conspicuous portion of their hulls. Such vessels shall, in all respects, except as above, be subject to the laws of the United States, and shall be liable to seizure and forfeiture for any violation of the provisions of this title: Provided, That all charges for license and inspection fees for any pleasure vessel or yacht shall not exceed five dollars, and for admeasurement shall not exceed ten cents per ton."



[^0]:    *The length to be measured for the spinnaker boom shall be the extreme distance, when in use, of its outer end, from the centre of the fore side of the mast on which the spinnaker is carried.

