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# 海洋站观测资料

第 三 册

国家海洋局

厦门水产学院  
海渔系资料室

内部

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# 海洋站观测资料

第 三 册

国家海洋局

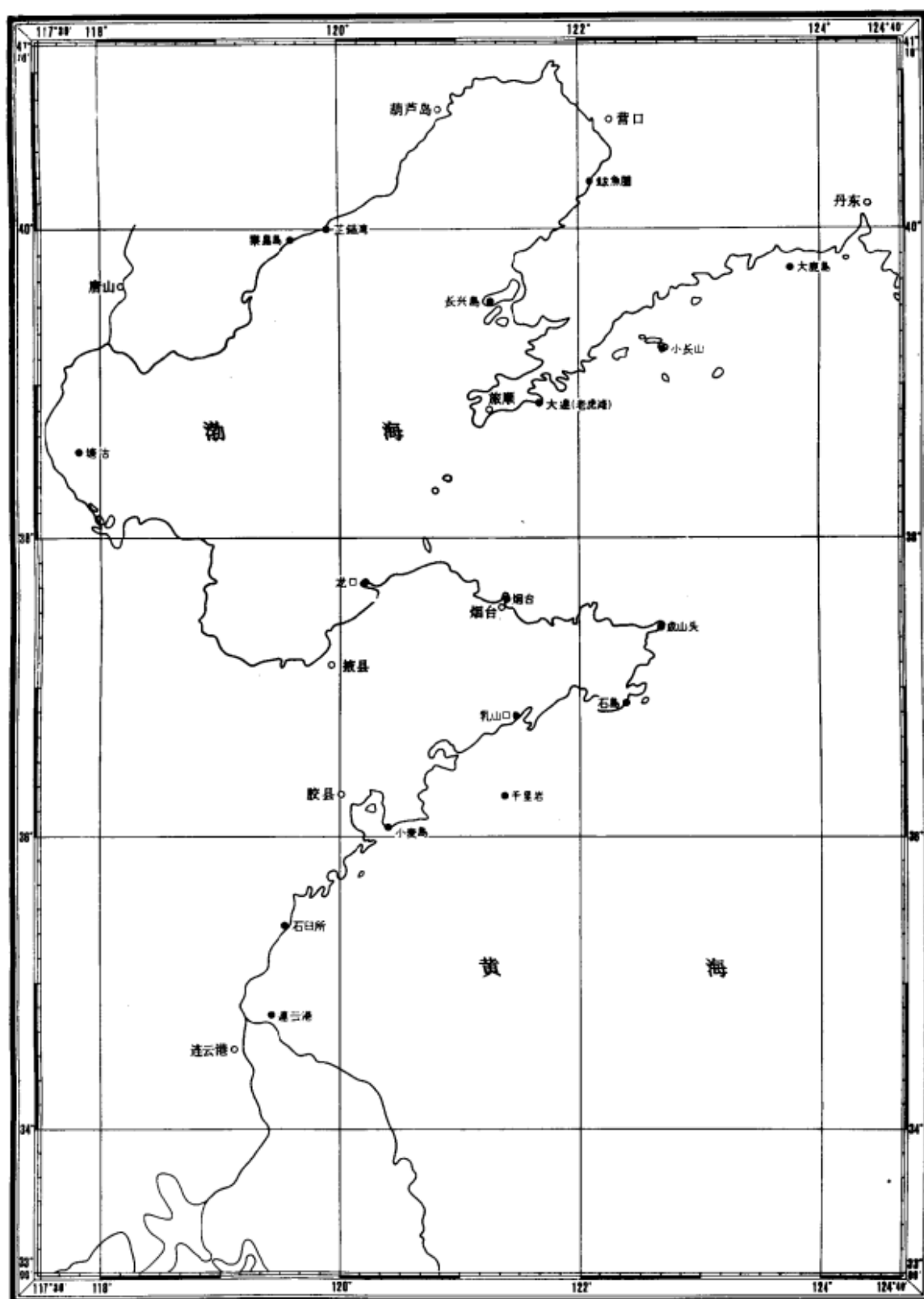
## 前 言

根据各单位的要求，我们编制了《海洋站观测资料》，供有关部门使用。

本资料是根据我局所属海洋站自一九六〇年后观测资料进行整编的。一九七四年以前，水位观测资料按站累年整编出版，其它资料按年逐站整编出版，每年分四册：第一、二、三册分别为南海、东海、北海三个分局所属海洋站观测资料，第四册为某些特定站观测资料。一九七五年以后的资料一至四册与一九七四年以前相同，水位观测资料改为逐年整编，列第五册。台湾省资料暂缺。资料密级：一、二、三册为内部资料，四、五册及各站累年水位资料为秘密资料。

由于水平所限，经验不足，资料编制中有不妥之处，希使用单位予以指正。

# 海洋站分布图



# 海洋站一览表

| 站名    | 水文要素观测点 |         | 气象要素观测点 |         | 气象观测场<br>海拔高度<br>(米) | 水银(空盒)<br>气压表海拔<br>高度(米) | 风的最大值<br>挑 | 相对湿度<br>最小值<br>挑 | 波<br>观测方法 |
|-------|---------|---------|---------|---------|----------------------|--------------------------|------------|------------------|-----------|
|       | 北 纬     | 东 经     | 北 纬     | 东 经     |                      |                          |            |                  |           |
| 连云港   | 34°47'  | 119°26' | 34°47'  | 119°26' | 26.9                 | 22.0                     |            |                  | 岸用测波仪     |
| 白石所   | 35°23'  | 119°33' | 35°23'  | 119°33' | 7.8                  | 7.8                      |            |                  | 岸用测波仪     |
| 小麦岛   | 36°03'  | 120°25' | 36°03'  | 120°25' | 29.8                 | 19.5                     |            |                  | 岸用测波仪     |
| 千里岩   | 36°16'  | 121°23' | 36°16'  | 121°23' | 70.5                 | 68.4                     | 自 记        | 自 记              | 岸用测波仪     |
| 乳山口   | 36°48'  | 121°29' | 36°48'  | 121°29' | 28.6                 | /                        |            |                  |           |
| 石 岛   | 36°53'  | 122°26' | 36°53'  | 122°26' | 21.8                 | 22.9                     |            |                  | 岸用测波仪     |
| 成山头   | 37°24'  | 122°42' | 37°24'  | 122°41' | 47.7                 | 47.5                     |            |                  | 目 测       |
| 烟 台   | 37°33'  | 121°23' | 37°32'  | 121°24' | 46.7                 | 47.8                     |            |                  |           |
| 龙 口   | 37°41'  | 120°13' | 37°41'  | 120°13' | 24.1                 | /                        |            |                  | 岸用测波仪     |
| 塘 沽   | 38°34'  | 117°49' | 38°34'  | 117°49' | 21.5                 | 22.5                     |            |                  | 目 测       |
| 秦 皇 岛 | 39°55'  | 119°37' | 39°55'  | 119°37' | 14.8                 | 12.7                     |            |                  | 岸用测波仪     |
| 芷 湾   | 40°00'  | 119°55' | 40°00'  | 119°55' | 18.6                 | 19.8                     |            |                  | 岸用测波仪     |
| 鲅 鱼 圈 | 40°18'  | 122°06' | 40°18'  | 122°06' | 15.1                 | 15.7                     |            |                  | 岸用测波仪     |
| 长兴岛   | 39°31'  | 121°16' | 39°31'  | 121°16' | 4.7                  | 5.5                      |            |                  |           |
| 老虎滩   | 38°52'  | 121°41' | 38°52'  | 121°41' | 23.1                 | 13.8                     |            |                  | 岸用测波仪     |
| 小 长 山 | 39°13'  | 122°42' | 39°14'  | 122°40' | 35.5                 | 18.1                     |            |                  | 岸用测波仪     |
| 大 鹿 岛 | 39°45'  | 123°45' | 39°45'  | 123°45' | 63.8                 | 60.4                     |            |                  | 岸用测波仪     |

## 资 料 说 明

一、本资料为北海分局所属海洋站一九七九年水文气象观测资料。其中包括：表层水温、表层盐度、海发光、海面能见度、海况、波浪以及气压、气温、湿度、云、降水、天气现象、风等要素。

二、本资料的观测和整理方法：水文要素参阅国家海洋局一九七九年《海滨观测规范》；气象要素参阅中央气象局一九六四年《地面气象观测规范》及国家海洋局一九七九年《海滨观测规范》中气象部分。

1.月报资料中的小数点整编时均省略。海况、相对湿度及统计值为整数；风速、云量（包括日合计）为整数，其统计值为一位小数；鲛鱼圈、长兴岛的表层盐度及统计值为一位小数，其余各站均为两位小数；除以上所述外，其他资料均为一位小数。

2.塘沽海洋站的气压用空盒气压表测得。

3.表头中的“海面能见度”为海面有效能见度。“有效能见度”为地面气象观测中的水平有效能见度。

4.成山头海洋站，当出现北风、偏北风、海况又较大时，由于环境影响，测波处海面混乱，不易观测，风浪波高作“0.0”处理。

三、本资料所用符号除按规范中所规定的符号以外，并作如下规定：

1.在年报资料中，凡记录右上方有“\*”者，表示为年极值。

2.水文月报波向栏中的“\*”，表示能测出波高、周期而测不出波向。

3.海发光栏中的“\*”，表示因灯、月或冰影响，无法观测。

4. 云量<sup>10</sup>以“10′”表示。

5. 凡出现的天气现象用“+”表示。

6. “-”表示缺测或缺测次数超过规定而不进行统计的要素和项  
目。

7. 表头中，湿度栏“度”字右上方有“\*”者，表示湿度未经气  
压订正。

一九八〇年八月

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海洋站一览表

资料说明

## 水文年报资料

|         |    |
|---------|----|
| 连云港 石臼所 | 1  |
| 小麦岛 千里岩 | 4  |
| 乳山口 石 岛 | 7  |
| 成山头 烟 台 | 9  |
| 龙 口 塘 沽 | 11 |
| 秦皇岛 芷锚湾 | 14 |
| 鲅鱼圈 长兴岛 | 17 |
| 老虎滩 小长山 | 19 |
| 大鹿岛     | 22 |

## 水文月报资料

|     |    |
|-----|----|
| 连云港 | 25 |
| 石臼所 | 37 |
| 小麦岛 | 49 |
| 千里岩 | 61 |
| 乳山口 | 73 |
| 石 岛 | 76 |
| 成山头 | 88 |

|          |     |
|----------|-----|
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| 龙 口..... | 103 |
| 塘 沽..... | 115 |
| 秦皇岛..... | 127 |
| 芷锚湾..... | 139 |
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| 长兴岛..... | 163 |
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| 石 岛 ..... | 281 |
| 成山头 ..... | 293 |
| 烟 台 ..... | 305 |
| 龙 口 ..... | 317 |
| 塘 沽 ..... | 329 |
| 秦皇岛 ..... | 341 |
| 芷锚湾 ..... | 353 |
| 鲅鱼圈 ..... | 365 |
| 长兴岛 ..... | 377 |
| 老虎滩 ..... | 389 |
| 小长山 ..... | 401 |
| 大鹿岛 ..... | 413 |

# 连云港

| 月<br>份 | 表层水温 (°C) |        |        |        |        | 表层盐度 (‰) |        |        |        |        | 有海发光<br>日数 | 无海发光<br>日数 | 平均风速<br>(米/秒) | 平均周期<br>(秒) | 平均波高<br>(米) | 海况(级)出现回数 |     |     |     |    |    | 波型出现回数 |        |
|--------|-----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|------------|------------|---------------|-------------|-------------|-----------|-----|-----|-----|----|----|--------|--------|
|        | 平<br>均    | 最<br>高 | 日<br>期 | 最<br>低 | 日<br>期 | 平<br>均   | 最<br>大 | 日<br>期 | 最<br>小 | 日<br>期 |            |            |               |             |             | 0-2       | 3   | 4   | 5   | 6  | ≥7 | 风<br>浪 | 涌<br>浪 |
| 1      | 3.3       | 5.4    | 9      | 1.7    | 3天     | 31.54    | 31.69  | 22,24  | 31.42  | 3天     | 17         | 4          | 6.0           | 3.4         | 0.7         | 55        | 20  | 25  | 16  | 5  |    | 118    | 53     |
| 2      | 3.9       | 7.8    | 27     | 0.9*   | 1      | 31.70    | 31.83  | 14,15  | 31.56  | 3天     | 13         | 5          | 5.2           | 3.7         | 0.6         | 56        | 22  | 19  | 11  | 1  |    | 109    | 53     |
| 3      | 6.9       | 11.2   | 28     | 4.1    | 1      | 31.72    | 31.87* | 27     | 31.56  | 31     | 21         | 1          | 5.1           | 3.0         | 0.5         | 64        | 32  | 12  | 8   | 2  | 1  | 117    | 36     |
| 4      | 11.3      | 14.9   | 25     | 8.3    | 2      | 31.28    | 31.64  | 4, 5   | 30.55  | 22     | 23         | 0          | 5.8           | 3.5         | 0.5         | 55        | 23  | 33  | 8   | 1  |    | 119    | 53     |
| 5      | 16.7      | 22.4   | 30     | 12.9   | 1      | 31.26    | 31.49  | 29     | 31.08  | 13     | 22         | 1          | 4.9           | 2.7         | 0.4         | 71        | 20  | 27  | 5   | 1  |    | 122    | 27     |
| 6      | 22.8      | 25.5   | 29     | 20.4   | 2      | 31.30    | 31.69  | 16     | 30.95  | 25     | 25         | 0          | 6.5           | 3.3         | 0.5         | 29        | 36  | 48  | 7   |    |    | 120    | 26     |
| 7      | 25.4      | 27.7   | 14,28  | 23.5   | 4      | 29.56    | 30.93  | 2      | 27.36  | 11     | 22         | 2          | 5.2           | 3.5         | 0.4         | 68        | 36  | 18  | 2   |    |    | 122    | 65     |
| 8      | 27.5      | 29.1*  | 11     | 24.8   | 31     | 29.32    | 30.10  | 3      | 28.60  | 18     | 25         | 0          | 6.0           | 3.9         | 0.6         | 41        | 25  | 43  | 15  |    |    | 124    | 67     |
| 9      | 22.8      | 26.0   | 9      | 20.2   | 28     | 27.49    | 29.45  | 8      | 22.29* | 16     | 21         | 0          | 5.7           | 3.9         | 0.6         | 44        | 26  | 37  | 12  | 1  |    | 120    | 71     |
| 10     | 18.8      | 21.9   | 8      | 16.1   | 23     | 27.33    | 28.39  | 31     | 25.61  | 3      | 25         | 0          | 4.5           | 3.2         | 0.5         | 71        | 17  | 21  | 11  | 1  |    | 120    | 45     |
| 11     | 12.0      | 19.3   | 4      | 5.8    | 29     | 30.28    | 29.38  | 29     | 27.88  | 13     | 19         | 0          | 6.5           | 3.7         | 0.6         | 51        | 16  | 24  | 17  | 11 |    | 118    | 48     |
| 12     | 6.4       | 8.6    | 4      | 4.4    | 27     | 29.68    | 30.03  | 31     | 29.34  | 1, 3   | 15         | 5          | 4.6           | 3.1         | 0.5         | 64        | 20  | 21  | 15  | 2  |    | 114    | 45     |
| 年平均    | 14.8      |        |        |        |        | 30.08    |        |        |        |        | 248        | 18         | 5.5           | 3.4         | 0.5         | 669       | 293 | 328 | 127 | 25 | 1  | 1423   | 589    |

| 月<br>份 | 波高(级)出现回数    |            |            |            |            |            |              | 最大 值 统 计 |         |        |    |        |      |    |      |      |      | 最多风向 |    | 最多风浪向 |    | 最多涌浪向    |    |
|--------|--------------|------------|------------|------------|------------|------------|--------------|----------|---------|--------|----|--------|------|----|------|------|------|------|----|-------|----|----------|----|
|        | 0.0<br>(0-2) | 0.8<br>(3) | 1.3<br>(4) | 2.0<br>(5) | 3.5<br>(6) | 5.0<br>(7) | ≥6.1<br>(≥7) | 风        |         | 海况     |    | 周期     |      | 波高 |      | 最大波高 |      | 向    | 频率 | 向     | 频率 | 向        | 频率 |
| 1      | 57           | 41         | 23         |            |            |            |              | 17       | WSW     | 10     | 6  | 4天     | 7.1  | 28 | 2.9  | 28   | 3.3  | WSW  | 15 | W     | 31 | WSW      | 26 |
| 2      | 60           | 39         | 10         |            |            |            |              | 15       | WSW, NW | 21, 26 | 6  | 22     | 6.0  | 22 | 2.3  | 22   | 3.3  | WSW  | 11 | W     | 15 | WSW      | 39 |
| 3      | 76           | 38         | 4          | 1          |            |            |              | 21*      | WSW     | 30     | 7* | 30     | 7.2* | 30 | 3.4* | 30   | 4.0* | WSW  | 19 | E     | 20 | WSW, WSE | 13 |
| 4      | 64           | 55         | 1          |            |            |            |              | 14       | 3个      | 3天     | 6  | 1      | 5.5  | 3天 | 1.8  | 26   | 2.1  | WSW  | 28 | E     | 30 | WSW, WSE | 15 |
| 5      | 84           | 34         | 6          |            |            |            |              | 15       | WSW     | 6      | 6  | 6      | 6.1  | 8  | 2.1  | 6    | 2.4  | WSW  | 26 | E     | 23 | WSW      | 13 |
| 6      | 59           | 60         | 1          |            |            |            |              | 15       | WSW     | 19     | 5  | 4天     | 5.6  | 20 | 1.8  | 19   | 2.0  | WSW  | 26 | E     | 35 | WSW      | 13 |
| 7      | 73           | 30         | 1          |            |            |            |              | 21*      | WSW     | 9      | 5  | 9, 22  | 6.4  | 23 | 1.8  | 22   | 2.0  | WSW  | 34 | E     | 41 | WSW      | 27 |
| 8      | 58           | 62         | 4          |            |            |            |              | 18       | WSW     | 4      | 5  | 7天     | 6.3  | 18 | 1.8  | 17   | 2.1  | WSW  | 23 | E     | 44 | WSW      | 31 |
| 9      | 44           | 73         | 3          |            |            |            |              | 17       | WSW     | 16     | 6  | 15     | 7.1  | 16 | 2.5  | 16   | 2.9  | WSW  | 18 | WSW   | 19 | WSW      | 43 |
| 10     | 70           | 47         | 4          |            |            |            |              | 14       | WSW     | 18     | 6  | 18     | 6.0  | 6  | 2.0  | 18   | 2.1  | WSW  | 13 | W     | 15 | WSW, WSE | 16 |
| 11     | 56           | 52         | 11         |            |            |            |              | 17       | WSW, NW | 17, 28 | 6  | 6天     | 6.3  | 30 | 2.0  | 17   | 2.2  | WSW  | 16 | W     | 22 | WSW      | 19 |
| 12     | 71           | 44         | 7          |            |            |            |              | 15       | WSW     | 20     | 6  | 21, 31 | 5.7  | 31 | 2.4  | 31   | 2.7  | WSW  | 13 | WSW   | 20 | WSW      | 25 |
| 年平均    | 772          | 595        | 75         | 1          |            |            |              |          |         |        |    |        |      |    |      |      |      | WSW  | 18 | E     | 21 | WSW      | 23 |

# 石臼所

| 月<br>份 | 表层水温 (°C) |        |        |        |        | 表层盐度 (‰) |        |        |        |        | 有海发光<br>日数 | 无海发光<br>日数 | 平均风速<br>(米/秒) | 平均周期<br>(秒) | 平均波高<br>(米) | 海况(级)出现回数 |     |     |    |    |    | 波型出现回数 |        |
|--------|-----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|------------|------------|---------------|-------------|-------------|-----------|-----|-----|----|----|----|--------|--------|
|        | 平<br>均    | 最<br>高 | 日<br>期 | 最<br>低 | 日<br>期 | 平<br>均   | 最<br>大 | 日<br>期 | 最<br>小 | 日<br>期 |            |            |               |             |             | 0-2       | 3   | 4   | 5  | 6  | ≥7 | 风<br>浪 | 涌<br>浪 |
| 1      | 3.9       | 5.9    | 9      | 1.7    | 31     | 31.68    | 31.82  | 16     | 31.53  | 31     | 12         | 9          | 6.6           | 3.7         | 0.6         | 60        | 22  | 17  | 8  | 13 | 2  | 114    | 48     |
| 2      | 3.6       | 5.1    | 26     | 1.4*   | 1      | 31.71    | 31.74  | 5天     | 31.65  | 23, 25 | 4          | 11         | 5.9           | 3.7         | 0.5         | 60        | 19  | 19  | 6  | 3  | 2  | 102    | 46     |
| 3      | 6.2       | 8.8    | 27     | 3.6    | 1      | 31.77    | 31.87  | 12     | 31.69  | 23     | 11         | 12         | 4.9           | 3.4         | 0.5         | 72        | 27  | 11  | 6  | 2  | 1  | 110    | 66     |
| 4      | 10.7      | 13.7   | 30     | 7.9    | 1      | 31.70    | 31.89* | 4      | 31.58  | 13, 24 | 17         | 5          | 5.1           | 3.8         | 0.6         | 68        | 35  | 14  | 2  | 1  |    | 114    | 77     |
| 5      | 16.0      | 20.4   | 31     | 12.8   | 1      | 31.48    | 31.73  | 2, 3   | 31.38  | 18, 19 | 19         | 7          | 5.1           | 2.9         | 0.4         | 65        | 41  | 12  | 2  | 3  |    | 120    | 52     |
| 6      | 21.1      | 24.4   | 29     | 18.8   | 5      | 31.25    | 31.51  | 1      | 29.20* | 24     | 20         | 8          | 5.3           | 3.7         | 0.6         | 48        | 36  | 18  | 9  | 4  |    | 114    | 67     |
| 7      | 24.8      | 27.8   | 30, 31 | 22.7   | 4      | 30.77    | 31.02  | 2      | 29.76  | 22, 23 | 26         | 0          | 4.5           | 3.8         | 0.7         | 58        | 48  | 13  | 3  | 2  |    | 122    | 75     |
| 8      | 27.6      | 29.0*  | 11     | 25.3   | 30     | 30.12    | 30.46  | 30, 31 | 29.61  | 2, 3   | 17         | 5          | 5.0           | 4.0         | 0.8         | 43        | 45  | 32  | 4  |    |    | 123    | 90     |
| 9      | 23.4      | 25.5   | 1, 4   | 20.5   | 30     | 30.05    | 30.50  | 2      | 29.56  | 16     | 22         | 3          | 5.0           | 3.9         | 0.7         | 56        | 40  | 20  |    | 4  |    | 119    | 71     |
| 10     | 19.2      | 21.4   | 1      | 17.1   | 23     | 29.45    | 29.74  | 1      | 29.20* | 5, 10  | 19         | 1          | 4.7           | 3.5         | 0.5         | 68        | 31  | 17  | 7  |    |    | 121    | 64     |
| 11     | 12.9      | 18.7   | 4      | 7.2    | 29     | 29.89    | 30.28  | 27     | 29.34  | 1      | 10         | 8          | 6.1           | 3.8         | 0.6         | 44        | 34  | 29  | 5  | 4  | 2  | 115    | 65     |
| 12     | 6.9       | 8.6    | 9      | 4.6    | 27     | 30.24    | 30.57  | 29     | 29.99  | 4      | 9          | 9          | 4.5           | 3.2         | 0.5         | 84        | 15  | 14  | 5  | 3  |    | 114    | 58     |
| 年平均    | 14.7      |        |        |        |        | 30.81    |        |        |        |        | 186        | 78         | 5.2           | 3.6         | 0.6         | 726       | 393 | 216 | 57 | 33 | 13 | 1388   | 779    |

| 月<br>份 | 波高(级)出现回数    |            |            |            |            |            |              | 最大 值 统 计 |         |    |    |        |        |       |      |       |      | 最多风向     |    | 最多风浪向 |    | 最多涌浪向 |    |
|--------|--------------|------------|------------|------------|------------|------------|--------------|----------|---------|----|----|--------|--------|-------|------|-------|------|----------|----|-------|----|-------|----|
|        | 0.0<br>(0-2) | 0.8<br>(3) | 1.3<br>(4) | 2.0<br>(5) | 3.5<br>(6) | 5.0<br>(7) | ≥6.1<br>(≥7) | 风        |         | 海况 |    | 周期     |        | 波高    |      | 最大波高  |      | 向        | 频率 | 向     | 频率 | 向     | 频率 |
| 1      | 56           | 61         | 5          |            |            |            |              | 16       | WSW     | 28 | 7* | 27, 28 | 6.7    | 12    | 1.9  | 27    | 2.1  | WSW      | 17 | SSW   | 16 | S     | 13 |
| 2      | 55           | 51         | 3          |            |            |            |              | 20*      | WSW     | 22 | 7* | 22     | 6.2    | 21    | 1.7  | 22    | 1.9  | WSW, WNW | 12 | WSW   | 12 | E     | 15 |
| 3      | 58           | 61         |            |            |            |            |              | 12       | E       | 30 | 30 | 5.6    | 11, 13 | 1.2   | 3天   | 1.6   | 27   | SSW      | 22 | SSW   | 17 | SE    | 15 |
| 4      | 54           | 64         | 2          |            |            |            |              | 16       | WSW     | 6  | 6  | 1      | 5.9    | 7     | 1.6  | 1     | 1.8  | S        | 13 | S     | 11 | E     | 20 |
| 5      | 78           | 45         |            |            |            |            |              | 16       | WSW     | 6  | 6  | 6      | 5.5    | 8     | 1.2  | 3     | 1.6  | S        | 23 | S     | 17 | SE    | 14 |
| 6      | 32           | 81         | 2          |            |            |            |              | 13       | SW, WSW | 24 | 6  | 3天     | 5.7    | 5     | 1.5  | 5, 24 | 1.9  | SE       | 18 | SE    | 15 | E     | 25 |
| 7      | 35           | 88         | 1          |            |            |            |              | 17       | WSW     | 9  | 7* | 9      | 6.1    | 10    | 1.9  | 9     | 2.1  | SE       | 19 | E     | 17 | SE    | 24 |
| 8      | 25           | 92         | 7          |            |            |            |              | 17       | WSW     | 17 | 5  | 3天     | 6.9*   | 17    | 1.8  | 17    | 2.1  | WSW, SSW | 15 | SSW   | 15 | E     | 29 |
| 9      | 38           | 77         | 5          |            |            |            |              | 16       | WSW     | 16 | 7  | 16     | 5.8    | 6, 16 | 2.9* | 16    | 3.3* | WSW      | 18 | E     | 16 | E     | 18 |
| 10     | 61           | 61         | 1          |            |            |            |              | 14       | WSW     | 3  | 5  | 3天     | 6.1    | 5     | 1.5  | 5     | 1.8  | S        | 16 | S     | 15 | E, S  | 15 |
| 11     | 48           | 69         | 1          |            |            |            |              | 18       | WSW     | 10 | 7* | 10     | 6.4    | 17    | 1.6  | 17    | 1.8  | WSW      | 13 | N     | 19 | S     | 11 |
| 12     | 73           | 45         | 3          |            |            |            |              | 13       | 3个      | 3天 | 6  | 20, 31 | 5.8    | 21    | 1.9  | 18    | 2.3  | WSW      | 12 | N     | 13 | SE    | 13 |
| 年平均    | 613          | 795        | 30         |            |            |            |              |          |         |    |    |        |        |       |      |       |      | WSW      | 10 | S     | 9  | E     | 15 |

# 连云港

| 项目<br>月份 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 |   |  |  |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---|--|--|
| N        |          |          |          |          |          |          |          |          | NNE      |          |          |          |          |          |          |          |          | NE       |          |          |          |          |          |          |          |          | ENE      |          |          |          |          |          |   |  |  |
| 1        | 5.6      | 9        | 5.0      | 1.4      | 1.8      | 7        | 7        |          | 9.4      | 17*      | 5.3      | 1.4      | 3.2*     | 9        | 22       | 17       | 7.8      | 13       | 5.0      | 1.1      | 3.2*     | 3        | 4        | 26       | 8.1      | 15       | 6.6      | 2.1      | 3.3*     | 6        | 3        | 1        |   |  |  |
| 2        | 9.0      | 13       | 3.8      | 0.7      | 1.7      | 4        | 10       |          | 6.3      | 12       | 4.6      | 1.3      | 2.6      | 11       | 13       | 5        | 7.6      | 13       | 4.7      | 0.7      | 2.5      | 4        | 5        | 39       | 6.4      | 15       | 3.8      | 0.5      | 0.9      | 8        | 4        | 2        |   |  |  |
| 3        | 7.3      | 11       | 6.8      | 2.3      | 4.0*     | 2        | 4        |          | 12.2     | 16       | 4.8      | 1.0      | 2.0      | 4        | 6        | 13       | 5.3      | 10       | 4.6      | 0.5      | 1.4      | 6        | 3        | 13       | 9.0      | 11       | 3.9      | 0.6      | 1.5      | 6        | 6        | 3        |   |  |  |
| 4        | 10.0     | 14*      |          |          |          | 3        |          |          | 4.5      | 9        | 4.2      | 0.6      | 2.1      | 5        | 6        | 13       | 4.3      | 8        | 4.6      | 0.5      | 1.3      | 3        | 1        | 14       | 4.7      | 14       | 4.3      | 0.5      | 1.8      | 5        | 4        | 15       |   |  |  |
| 5        | 6.0      | 10       |          |          |          | 2        |          |          | 11.8     | 15       | 4.3      | 0.8      | 2.4      | 4        | 6        | 6        | 5.7      | 12       | 4.9      | 0.7      | 2.0      | 6        | 5        | 13       | 2.4      | 4        | 4.3      | 0.7      | 1.1      | 4        | 2        | 4        |   |  |  |
| 6        |          |          | 4.6      | 0.7      | 1.0      |          | 2        | 1        | 9.0      | 13       | 3.4      | 0.4      | 1.0      | 6        | 2        | 3        | 7.5      | 14*      | 4.4      | 0.6      | 2.0      | 3        | 3        | 13       | 4.5      | 5        | 4.3      | 0.5      | 1.0      | 2        | 2        | 4        |   |  |  |
| 7        | 6.5      | 11       |          |          |          | 2        | 1        |          | 4.0      | 5        | 4.8      | 1.8      | 2.0      | 2        | 2        | 1        | 2.5      | 3        | 4.7      | 0.6      | 1.7      | 2        | 27       | 3.8      | 9        | 4.3      | 0.5      | 1.6      | 6        | 6        | 23       |          |   |  |  |
| 8        | 11.3     | 12       | 4.8      | 1.4      | 1.9      | 2        | 2        |          | 8.5      | 11       | 5.0      | 1.4      | 1.8      | 3        | 6        |          | 8.3      | 12       | 4.8      | 0.9      | 2.1      | 6        | 7        | 31       | 8.4      | 11       | 4.8      | 0.4      | 1.6      | 12       | 7        | 23       |   |  |  |
| 9        | 5.0      | 5        |          |          |          | 2        | 1        |          | 8.2      | 12       | 4.6      | 0.8      | 1.6      | 8        | 11       | 13       | 6.9      | 12       | 4.8      | 0.8      | 2.9      | 17       | 19       | 43       | 8.3      | 17*      | 4.7      | 1.1      | 2.2      | 18       | 14       | 3        |   |  |  |
| 10       | 5.6      | 12       | 2.7      | 0.2      | 0.2      | 6        | 1        |          | 9.2      | 14       | 4.5      | 0.8      | 2.0      | 10       | 9        | 16       | 4.5      | 7        | 4.6      | 0.6      | 2.1      | 3        | 9        | 16       | 2.6      | 4        | 4.1      | 0.3      | 0.6      | 4        | 6        |          |   |  |  |
| 11       | 10.1     | 14*      | 4.6      | 1.2      | 2.1      | 9        | 7        | 2        | 12.7     | 17*      | 4.8      | 1.1      | 2.2      | 6        | 14       | 14       | 13.0     | 13       | 4.8      | 0.5      | 1.5      | 1        | 1        | 19       | 7.5      | 13       | 3.9      | 0.3      | 0.5      | 2        | 1        | 5        |   |  |  |
| 12       | 6.2      | 12       | 3.8      | 1.0      | 1.4      | 8        | 2        |          | 8.1      | 13       | 4.5      | 0.9      | 1.7      | 13       | 20       | 12       | 6.9      | 12       | 4.6      | 0.8      | 2.7      | 8        | 9        | 25       | 5.7      | 15       | 3.2      | 0.5      | 1.1      | 5        | 3        |          |   |  |  |
| 年平均      | 7.5      |          | 4.6      | 1.1      |          | 4        | 3        | 0        | 8.7      |          | 4.7      | 1.0      |          | 6        | 10       | 9        | 6.6      |          | 4.7      | 0.7      |          | 5        | 5        | 23       | 6.7      |          | 4.4      | 0.6      |          | 6        | 4        | 7        |   |  |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   |  |  |
| E        |          |          |          |          |          |          |          |          | ESE      |          |          |          |          |          |          |          |          | SE       |          |          |          |          |          |          |          |          | SSE      |          |          |          |          |          |   |  |  |
| 1        | 2.8      | 4        | 2.6      | 0.2      | 0.3      | 5        | 3        |          | 2.7      | 4        |          |          |          |          | 6        |          | 3.0      | 3        |          |          |          |          | 1        |          | 3.0      | 3        |          |          |          |          |          | 1        |   |  |  |
| 2        | 3.3      | 8        | 3.6      | 0.4      | 1.0      | 5        | 9        | 3        | 5.4      | 8        |          |          |          |          | 8        | 1        | 3.5      | 4        |          |          |          |          | 2        |          | 4.6      | 6        |          |          |          |          |          | 4        |   |  |  |
| 3        | 4.1      | 12       | 2.9      | 0.3      | 1.0      | 12       | 20       | 2        | 5.7      | 12       | 3.2      | 0.4      | 1.1      | 19       | 13       |          | 4.5      | 8        |          |          |          |          | 3        |          | 7.0      | 12       |          |          |          |          |          | 7        |   |  |  |
| 4        | 6.3      | 11       | 3.4      | 0.5      | 1.3*     | 10       | 30       | 2        | 8.0      | 14       | 3.5      | 0.7      | 1.2*     | 28       | 9        |          | 5.1      | 11       |          |          |          |          | 7        |          | 5.3      | 10       |          |          |          |          |          | 5        |   |  |  |
| 5        | 4.9      | 9        | 3.1      | 0.4      | 1.0      | 9        | 23       | 1        | 5.2      | 8        | 3.3      | 0.5      | 0.7      | 26       | 3        |          | 4.8      | 7        |          |          |          |          | 5        |          | 5.6      | 8        |          |          |          |          |          | 4        |   |  |  |
| 6        | 4.1      | 6        | 3.3      | 0.4      | 1.1      | 8        | 35       | 3        | 7.2      | 15       | 3.5      | 0.5      | 0.7      | 34       | 11       |          | 6.3      | 10       |          |          |          |          | 3        |          | 7.0      | 12*      |          |          |          |          |          | 8        |   |  |  |
| 7        | 6.4      | 15*      | 3.2      | 0.4      | 1.0      | 19       | 41       | 3        | 6.9      | 21*      | 3.2      | 0.5      | 0.7      | 23       | 8        |          | 4.1      | 6        |          |          |          |          | 7        |          | 6.5      | 10       |          |          |          |          |          | 10       |   |  |  |
| 8        | 6.1      | 9        | 3.5      | 0.5      | 1.0      | 14       | 44       |          | 6.0      | 9        |          |          |          |          | 27       |          | 5.2      | 8        |          |          |          |          | 5        |          | 3.6      | 6        |          |          |          |          |          | 6        |   |  |  |
| 9        | 6.7      | 15*      | 3.3      | 0.4      | 1.3*     | 5        | 13       | 1        | 5.8      | 14       | 3.4      | 0.4      | 0.5      | 14       | 8        |          | 4.2      | 7        |          |          |          |          | 5        |          | 4.6      | 7        |          |          |          |          |          | 6        |   |  |  |
| 10       | 3.8      | 7        | 3.2      | 0.4      | 0.7      | 9        | 12       |          | 4.2      | 7        | 3.1      | 0.4      | 0.8      | 13       | 6        |          | 3.6      | 5        |          |          |          |          | 4        |          | 4.5      | 7        |          |          |          |          |          | 3        |   |  |  |
| 11       | 3.0      | 4        | 3.1      | 0.4      | 0.9      | 2        | 11       |          | 4.6      | 10       | 3.7      | 0.6      | 0.8      | 16       | 6        |          | 4.6      | 7        |          |          |          |          | 4        |          | 5.8      | 7        |          |          |          |          |          | 5        |   |  |  |
| 12       | 3.0      | 5        | 2.3      | 0.2      | 0.4      | 2        | 5        |          | 3.5      | 5        | 4.0      | 0.5      | 0.8      | 3        | 3        |          | 8.7      | 12*      |          |          |          |          | 2        |          | 4.4      | 8        |          |          |          |          |          | 4        |   |  |  |
| 年平均      | 5.1      |          | 3.3      | 0.4      |          | 8        | 21       | 1        | 6.0      |          | 3.4      | 0.5      |          | 18       | 6        |          | 4.8      |          |          |          |          |          | 4        |          | 5.6      |          |          |          |          |          |          | 5        |   |  |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   |  |  |
| S        |          |          |          |          |          |          |          |          | SSW      |          |          |          |          |          |          |          |          | SW       |          |          |          |          |          |          |          |          | WSW      |          |          |          |          |          |   |  |  |
| 1        | 2.0      | 2        |          |          |          | 1        |          |          | 4.8      | 8        |          |          |          |          | 4        |          | 6.2      | 12*      |          |          |          |          | 5        |          | 6.9      | 12       |          |          |          |          |          | 15       |   |  |  |
| 2        |          |          |          |          |          |          |          |          | 4.1      | 8        |          |          |          |          | 7        |          | 1.7      | 2        |          |          |          |          | 3        |          | 6.8      | 12       |          |          |          |          |          | 8        |   |  |  |
| 3        | 6.5      | 10*      |          |          |          | 3        |          |          |          |          |          |          |          |          |          |          | 3.2      | 6        |          |          |          |          | 4        |          | 5.6      | 8        |          |          |          |          |          | 4        |   |  |  |
| 4        | 10.0     | 10*      |          |          |          | 1        |          |          | 4.3      | 7        |          |          |          |          | 3        |          | 2.0      | 2        |          |          |          |          | 1        |          | 5.3      | 9        |          |          |          |          |          | 7        |   |  |  |
| 5        | 5.3      | 9        |          |          |          | 2        |          |          | 1.7      | 2        |          |          |          |          | 2        |          | 6.0      | 6        |          |          |          |          | 1        |          | 7.0      | 13*      |          |          |          |          |          | 7        |   |  |  |
| 6        | 5.0      | 7        |          |          |          | 2        |          |          | 10.3     | 13*      |          |          |          |          | 3        |          | 8.3      | 9        |          |          |          |          | 3        |          | 8.5      | 13*      | 3.9      | 0.4      | 0.5*     | 11       | 1        |          |   |  |  |
| 7        | 4.5      | 7        |          |          |          | 2        |          |          | 5.3      | 7        |          |          |          |          | 2        |          | 2.0      | 2        |          |          |          |          | 2        |          | 4.0      | 8        |          |          |          |          |          | 2        |   |  |  |
| 8        | 5.0      | 6        |          |          |          | 2        |          |          | 3.3      | 4        |          |          |          |          | 2        |          | 5.0      | 5        |          |          |          |          | 1        |          | 5.2      | 8        |          |          |          |          |          | 4        |   |  |  |
| 9        | 5.0      | 6        |          |          |          | 2        |          |          | 2.0      | 2        |          |          |          |          | 1        |          | 2.0      | 2        |          |          |          |          | 1        |          | 5.0      | 8        |          |          |          |          |          | 3        |   |  |  |
| 10       | 4.2      | 7        |          |          |          | 4        |          |          | 3.8      | 6        |          |          |          |          | 3        |          | 3.6      | 5        |          |          |          |          | 4        |          | 5.6      | 13*      |          |          |          |          |          | 4        |   |  |  |
| 11       | 5.7      | 8        |          |          |          | 3        |          |          | 5.1      | 9        |          |          |          |          | 8        |          | 2.0      | 2        |          |          |          |          | 1        |          | 3.8      | 7        |          |          |          |          |          | 5        |   |  |  |
| 12       |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 6.0      | 8        |          |          |          |          | 2        |          | 6.0      | 9        |          |          |          |          |          | 6        |   |  |  |
| 年平均      | 5.2      |          |          |          |          | 2        |          |          | 4.8      |          |          |          |          |          | 3        |          | 4.3      |          |          |          |          |          | 2        |          | 6.3      |          | 3.9      | 0.4      |          |          |          | 6        | 0 |  |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |   |  |  |
| W        |          |          |          |          |          |          |          |          | WNW      |          |          |          |          |          |          |          |          | NW       |          |          |          |          |          |          |          |          | NNW      |          |          |          |          |          |   |  |  |
| 1        | 5.5      | 9        | 2.8      | 0.4      | 0.8      | 9        | 31       |          | 5.0      | 9        |          |          |          |          | 4        | 1        | 5.6      | 12       |          |          |          |          | 4        |          | 9.4      | 14       |          |          |          |          |          | 13       | 1 |  |  |
| 2        | 6.0      | 9        | 2.8      | 0.4      | 0.9      | 7        | 15       |          | 5.8      | 12       | 3.2      | 0.6      | 1.0      | 5        | 2        |          | 7.9      | 15       | 3.5      | 0.7      | 1.2      | 7        | 6        |          | 4.9      | 10       | 4.5      | 1.3      | 2.0*     | 6        | 4        |          |   |  |  |
| 3        | 4.2      | 8        | 2.6      | 0.3      | 0.5      | 8        | 8        |          | 6.3      | 14*      | 3.4      | 0.6      | 1.1*     | 3        | 3        |          | 4.3      | 5        | 3.8      | 1.0      | 1.1      | 2        | 2        |          | 12.5     | 21*      |          |          |          |          |          | 2        | 1 |  |  |
| 4        | 6.7      | 8        | 2.7      | 0.3      | 0.4      | 3        | 6        |          | 5.5      | 11       | 3.4      | 0.4      | 0.8      | 8        | 6        |          | 7.0      | 9        | 4.0      | 0.8      | 1.0      | 3        | 4        |          | 7.5      | 8        | 3.6      | 0.7      | 0.8      | 2        | 3        |          |   |  |  |
| 5        | 5.0      | 10       | 3.0      | 0.4      | 1.0      | 6        | 10       |          | 4.3      | 10       | 3.0      | 0.4      | 1.1*     | 9        | 6        |          | 9.0      | 13       | 3.5      | 0.7      | 1.1      | 2        | 2        |          | 2.5      | 4        | 3.2      | 0.5      | 0.6      | 5        | 2        |          |   |  |  |
| 6        | 6.2      | 8        | 3.2      | 0.5      | 1.4*     | 5        | 18       |          | 5.3      | 8        | 3.3      | 0.5      | 0.8      | 5        | 6        |          | 7.6      | 14       | 3.8      | 1.0      | 1.5      | 4        | 3        |          | 2.0      | 2        |          |          |          |          |          | 1        | 1 |  |  |
| 7        | 4.9      | 7        | 2.8      | 0.3      | 0.5      | 6        | 4        |          | 7.8      | 12       | 3.2      | 0.4      | 0.8      | 3        | 4        |          | 2.5      | 3        | 2.8      | 0.6      | 0.8      | 2        | 1        |          | 3.0      | 5        |          |          |          |          |          | 2        |   |  |  |
| 8        | 3.2      | 4        | 2.7      | 0.3      | 0.5      | 5        | 10       |          | 4.0      | 5        |          |          |          |          | 3        | 1        | 6.0      | 6        |          |          |          |          | 1        |          | 16.5     | 18       | 3.3      | 0.9      | 1.1      | 2        | 2        |          |   |  |  |
| 9        | 3.8      | 7        | 3.0      | 0.5      | 0.7      | 7        | 7        |          | 4.5      | 6        |          |          |          |          | 2        | 2        | 2.0      | 3        | 3.1      | 0.4      | 0.8      | 3        | 2        |          | 4.0      | 6        |          |          |          |          |          | 2        |   |  |  |
| 10       | 4.2      | 8        | 2.9      | 0.4      | 1.1      | 10       | 15       |          | 3.5      | 8        | 3.2      | 0.6      | 0.7      | 6        | 2        |          | 8.0      | 9        | 3.5      | 0.6      | 1.3      | 2        | 4        |          | 5.6      | 9        | 3.8      | 0.7      | 1.2      | 4        | 3        |          |   |  |  |
| 11       | 5.6      | 9        | 3.1      | 0.3      | 1.1      | 12       | 22       |          | 7.0      | 13       | 3.4      | 0.7      | 1.0      | 8        | 6        |          | 11.8     | 17*      | 3.5      | 0.7      | 1.7*     | 7        | 5        |          | 7.8      | 12       | 4.5      | 1.2      | 1.9      | 8        | 6        |          |   |  |  |
| 12       | 5.2      | 13*      | 2.8      | 0.3      | 0.6      | 13       | 16       |          | 3.0      | 4        | 3.1      | 0.4      | 0.8      | 4        | 6        |          | 2.7      | 3        | 3.1      | 0.2      | 0        |          |          |          |          |          |          |          |          |          |          |          |   |  |  |

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— 3 —

# 小 麦 岛

| 月<br><br>份  | 表 层 水 温 (°C) |        |        |        |        | 表 层 盐 度 (‰) |        |        |        |        | 有海<br>发光<br>日数 | 无海<br>发光<br>日数 | 平均<br>风速<br>(米/秒) | 平均<br>周期<br>(秒) | 平均<br>波高<br>(米) | 海 况 (级) 出 现 回 数 |     |     |    |   |     | 波 型 出 现 回 数 |        |
|-------------|--------------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|----------------|----------------|-------------------|-----------------|-----------------|-----------------|-----|-----|----|---|-----|-------------|--------|
|             | 平<br>均       | 最<br>高 | 日<br>期 | 最<br>低 | 日<br>期 | 平<br>均      | 最<br>大 | 日<br>期 | 最<br>小 | 日<br>期 |                |                |                   |                 |                 | 0-2             | 3   | 4   | 5  | 6 | ≥7  | 风<br>浪      | 涌<br>浪 |
| 1           | 4.0          | 7.1    | 8      | 3.0    | 30, 31 | 31.84       | 32.01  | 8      | 31.74  | 1, 29  | 13             | 6              | 6.8               | 3.3             | 0.7             | 70              | 18  | 27  | 9  |   |     | 124         | 49     |
| 2           | 3.6          | 4.6    | 12     | 2.4*   | 1      | 31.91       | 32.12* | 7      | 31.67  | 22     | 13             | 3              | 6.8               | 3.2             | 0.6             | 57              | 21  | 28  | 2  |   |     | 108         | 47     |
| 3           | 5.0          | 6.9    | 30     | 3.1    | 1      | 31.80       | 31.87  | 27     | 31.73  | 30     | 10             | 8              | 5.3               | 3.3             | 0.5             | 76              | 21  | 17  | 4  |   |     | 118         | 65     |
| 4           | 8.5          | 11.1   | 30     | 6.4    | 3      | 31.71       | 31.82  | 6天     | 31.58  | 25     | 6              | 11             | 6.0               | 3.3             | 0.7             | 57              | 26  | 34  | 1  |   |     | 118         | 50     |
| 5           | 12.9         | 16.7   | 31     | 10.4   | 1      | 31.61       | 31.74  | 1      | 31.29  | 15     | 16             | 7              | 4.9               | 2.9             | 0.4             | 81              | 32  | 11  |    |   | 124 | 61          |        |
| 6           | 17.6         | 20.5   | 28     | 15.4   | 1, 7   | 31.64       | 31.67  | 5天     | 31.22  | 24     | 7              | 15             | 5.3               | 4.3             | 0.8             | 70              | 19  | 16  | 6  |   |     | 111         | 86     |
| 7           | 21.7         | 25.3   | 30     | 19.1   | 6, 7   | 31.09       | 31.47  | 5, 7   | 30.73  | 31     | 5              | 21             | 4.7               | 4.3             | 0.8             | 79              | 30  | 14  | 1  |   |     | 124         | 95     |
| 8           | 24.9         | 26.8*  | 26     | 20.7   | 6      | 30.69       | 31.04  | 6      | 30.32* | 8      | 8              | 17             | 4.7               | 4.5             | 1.0             | 55              | 42  | 27  |    |   | 124 | 97          |        |
| 9           | 23.7         | 25.8   | 3      | 21.7   | 28     | 30.97       | 31.11  | 15     | 30.79  | 1      | 16             | 6              | 4.7               | 3.6             | 0.6             | 77              | 23  | 18  | 1  | 1 |     | 120         | 69     |
| 10          | 19.8         | 22.5   | 1      | 17.9   | 25     | 31.17       | 31.26  | 3天     | 31.04  | 1      | 15             | 4              | 5.7               | 3.4             | 0.5             | 65              | 31  | 20  | 6  | 2 |     | 124         | 66     |
| 11          | 14.4         | 19.1   | 4      | 9.6    | 29, 30 | 31.32       | 31.53  | 3天     | 31.11  | 1, 4   | 13             | 6              | 7.6               | 3.1             | 0.7             | 42              | 23  | 40  | 13 | 2 |     | 120         | 40     |
| 12          | 8.5          | 10.1   | 5      | 6.6    | 31     | 31.49       | 31.56  | 31     | 31.42  | 4      | 13             | 7              | 5.2               | 2.8             | 0.5             | 90              | 19  | 11  | 2  |   |     | 122         | 54     |
| 年平均<br>或年合计 | 13.8         |        |        |        |        | 31.43       |        |        |        |        | 135            | 111            | 5.6               | 3.5             | 0.7             | 819             | 305 | 263 | 45 | 5 |     | 1437        | 779    |

| 月<br>份      | 波 高 (级) 出 现 回 数 |            |            |            |            |              |      | 最 大 值 统 计 |        |     |        |      |    |      |        |      |        | 最 多 风 向    |          | 最 多 风 浪 向 |          | 最 多 涌 浪 向   |          |
|-------------|-----------------|------------|------------|------------|------------|--------------|------|-----------|--------|-----|--------|------|----|------|--------|------|--------|------------|----------|-----------|----------|-------------|----------|
|             | 0.0<br>(0-2)    | 0.8<br>(3) | 1.3<br>(4) | 2.0<br>(5) | 3.5<br>(6) | ≥6.1<br>(≥7) | ≥6.1 | 风         |        | 海 况 |        | 周 期  |    | 波 高  |        | 最大波高 |        | 向          | 频<br>率   | 向         | 频<br>率   | 向           | 频<br>率   |
| 1           | 51              | 54         | 15         | 3          |            |              | 18   | NNW       | 30     | 5   | 5天     | 8.8  | 29 | 3.3* | 6.29   | 3.9  | 29     | NNW        | 21       | SW        | 16       | 3个          | 10       |
| 2           | 45              | 57         | 6          |            |            |              | 17   | NW        | 23, 27 | 5   | 2, 27  | 8.1  | 23 | 2.3  | 21     | 2.9  | 21     | NNW        | 26       | NW        | 23       | SESE        | 19       |
| 3           | 57              | 59         | 2          |            |            |              | 20*  | NNW       | 30     | 5   | 3天     | 5.7  | 25 | 1.6  | 22     | 1.8  | 22     | ESSE       | 15       | SE        | 13       | SE          | 19       |
| 4           | 40              | 68         | 10         |            |            |              | 15   | NW        | 13     | 5   | 6, 7   | 7.0  | 20 | 2.3  | 7      | 2.8  | 7      | E          | 18       | SESE      | 18       | SE          | 27       |
| 5           | 75              | 49         |            |            |            |              | 14   | ESSE      | 11     | 4   | 7天     | 5.5  | 8  | 1.2  | 3天     | 1.6  | 6      | E, ESSE    | 13       | SW        | 8        | SE          | 35       |
| 6           | 26              | 75         | 10         |            |            |              | 15   | S         | 24     | 5   | 4天     | 7.3  | 28 | 2.8  | 24     | 3.0  | 24     | ESSE       | 24       | ESSE      | 20       | SESE        | 16       |
| 7           | 23              | 89         | 12         |            |            |              | 14   | ESSE, NW  | 9, 13  | 5   | 9      | 9.8* | 27 | 2.0  | 10, 22 | 2.4  | 10, 22 | ESSE       | 17       | ESSE      | 17       | SE          | 31       |
| 8           | 24              | 79         | 19         | 2          |            |              | 14   | NW        | 17     | 4   | 15天    | 9.8* | 17 | 3.1  | 17     | 4.4* | 16     | ESSE       | 20       | ESSE      | 25       | SESE        | 40       |
| 9           | 43              | 72         | 5          |            |            |              | 15   | E         | 16     | 6*  | 16     | 5.9  | 17 | 2.5  | 16     | 2.8  | 16     | NNW        | 17       | SSW       | 11       | SE          | 38       |
| 10          | 59              | 63         | 2          |            |            |              | 18   | NNW       | 20     | 6*  | 20     | 7.0  | 18 | 1.9  | 23     | 2.1  | 23     | SSW, NW    | 19       | NW        | 19       | SE          | 19       |
| 11          | 49              | 64         | 7          |            |            |              | 16   | NNW       | 10     | 6*  | 24     | 6.2  | 24 | 2.8  | 24     | 3.0  | 24     | NW         | 21       | NW        | 28       | SESE        | 13       |
| 12          | 64              | 55         | 3          |            |            |              | 14   | NNW, SW   | 24, 26 | 5   | 18, 20 | 6.4  | 21 | 2.0  | 18     | 2.7  | 21     | NW, NNW    | 23       | NW        | 17       | SESE        | 15       |
| 年平均<br>或年合计 | 556             | 784        | 91         | 5          |            |              |      |           |        |     |        |      |    |      |        |      |        | 年最多<br>NNW | 频率<br>13 | 年最多<br>NW | 频率<br>12 | 年最多<br>SESE | 频率<br>20 |

# 千 里 岩

| 月<br>份      | 表 层 水 温 (°C) |        |        |        |        | 表 层 盐 度 (‰) |        |        |        |        | 有<br>海<br>发<br>光<br>日<br>数 | 无<br>海<br>发<br>光<br>日<br>数 | 平<br>均<br>风<br>速<br>(米/秒) | 平<br>均<br>周<br>期<br>(秒) | 平<br>均<br>波<br>高<br>(米) | 海 况 (级) 出 现 回 数 |     |     |     |    |    | 波 型 出 现 回 数 |        |
|-------------|--------------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|----------------------------|----------------------------|---------------------------|-------------------------|-------------------------|-----------------|-----|-----|-----|----|----|-------------|--------|
|             | 平<br>均       | 最<br>高 | 日<br>期 | 最<br>低 | 日<br>期 | 平<br>均      | 最<br>大 | 日<br>期 | 最<br>小 | 日<br>期 |                            |                            |                           |                         |                         | 0-2             | 3   | 4   | 5   | 6  | ≥7 | 风<br>浪      | 涌<br>浪 |
| 1           | 6.5          | 8.9    | 8      | 3.9    | 31     | 31.68       | 31.80  | 26, 28 | 31.60  | 1      | 19                         | 0                          | 9.6                       | 5.3                     | 1.6                     | 32              | 22  | 12  | 23  | 19 | 16 | 123         | 61     |
| 2           | 4.0          | 5.2    | 12     | 2.6*   | 24     | 31.72       | 31.85* | 17     | 31.62  | 13, 14 | 16                         | 0                          | 9.3                       | 4.8                     | 1.3                     | 29              | 16  | 24  | 21  | 9  | 7  | 106         | 55     |
| 3           | 4.0          | 5.4    | 31     | 2.8    | 1      | 31.69       | 31.80  | 11     | 31.42  | 23     | 20                         | 0                          | 6.7                       | 4.2                     | 0.8                     | 54              | 20  | 24  | 7   | 3  | 2  | 109         | 72     |
| 4           | 6.8          | 9.8    | 30     | 5.0    | 1      | 31.60       | 31.69  | 4, 5   | 31.55  | 29     | 18                         | 0                          | 6.7                       | 4.4                     | 0.9                     | 55              | 34  | 17  | 7   | 2  |    | 110         | 70     |
| 5           | 12.3         | 18.9   | 30     | 8.4    | 3      | 31.54       | 31.62  | 5天     | 31.38  | 17     | 18                         | 0                          | 6.5                       | 3.7                     | 0.7                     | 71              | 30  | 21  | 1   | 1  |    | 123         | 81     |
| 6           | 17.8         | 22.0   | 29     | 14.7   | 2      | 31.44       | 31.64  | 1      | 31.24  | 24     | 23                         | 0                          | 6.5                       | 4.8                     | 1.0                     | 53              | 29  | 12  | 2   | 7  | 2  | 105         | 78     |
| 7           | 23.2         | 26.4   | 30     | 19.6   | 3      | 31.09       | 31.29  | 1      | 30.79  | 30     | 26                         | 0                          | 5.8                       | 5.2                     | 1.0                     | 59              | 20  | 40  | 3   |    |    | 120         | 95     |
| 8           | 26.5         | 28.5*  | 14     | 24.4   | 29     | 30.82       | 31.02  | 1      | 30.62* | 30     | 21                         | 0                          | 5.6                       | 5.9                     | 1.3                     | 55              | 43  | 21  | 5   |    |    | 124         | 105    |
| 9           | 23.3         | 25.1   | 1, 3   | 21.4   | 27, 30 | 30.99       | 31.15  | 6天     | 30.66  | 1      | 22                         | 0                          | 5.6                       | 4.2                     | 0.8                     | 57              | 25  | 32  | 5   | 1  |    | 119         | 84     |
| 10          | 20.1         | 22.0   | 1      | 18.7   | 30     | 31.17       | 31.33  | 30, 31 | 31.04  | 4      | 21                         | 0                          | 6.6                       | 4.1                     | 1.0                     | 45              | 23  | 38  | 11  | 4  | 3  | 124         | 73     |
| 11          | 16.0         | 19.1   | 3      | 12.7   | 28, 29 | 31.43       | 31.58  | 28, 29 | 31.27  | 4      | 21                         | 0                          | 9.0                       | 4.8                     | 1.4                     | 29              | 21  | 30  | 28  | 12 |    | 120         | 62     |
| 12          | 10.5         | 12.8   | 1      | 7.5    | 30     | 31.60       | 31.69  | 30, 31 | 31.51  | 5天     | 22                         | 0                          | 7.1                       | 4.1                     | 0.9                     | 42              | 33  | 37  | 10  |    |    | 120         | 75     |
| 年平均<br>或年合计 | 14.3         |        |        |        |        | 31.40       |        |        |        |        | 247                        | 0                          | 7.1                       | 4.6                     | 1.1                     | 581             | 316 | 308 | 123 | 58 | 31 | 1403        | 911    |

| 月<br>份      | 波 高 (级) 出 现 回 数 |            |            |            |            |              |      | 最 大 值 统 计 |    |     |        |        |    |      |        |      |        | 最 多 风 向  |          | 最 多 风 浪 向  |          | 最 多 涌 浪 向  |          |
|-------------|-----------------|------------|------------|------------|------------|--------------|------|-----------|----|-----|--------|--------|----|------|--------|------|--------|----------|----------|------------|----------|------------|----------|
|             | 0.0<br>(0-2)    | 0.8<br>(3) | 1.3<br>(4) | 2.0<br>(5) | 3.5<br>(6) | ≥6.1<br>(≥7) | ≥6.1 | 风         |    | 海 况 |        | 周 期    |    | 波 高  |        | 最大波高 |        | 向        | 频<br>率   | 向          | 频<br>率   | 向          | 频<br>率   |
| 1           | 11              | 55         | 47         | 10         | 1          |              | 19   | 3个        | 3天 | 7*  | 7天     | 12.6   | 29 | 5.0* | 29     | 5.4* | 29     | SSW      | 21       | SSW        | 20       | SSW        | 15       |
| 2           | 10              | 56         | 38         | 2          |            |              | 21*  | NSE       | 22 | 7*  | 4天     | 7      | 18 | 3.7  | 21     | 4.7  | 21     | S        | 18       | NW         | 16       | SSW        | 14       |
| 3           | 37              | 57         | 16         |            |            |              | 21*  | NNW       | 30 | 7*  | 10     | 8.2    | 12 | 2.5  | 11, 30 | 3.2  | 11     | S        | 24       | SSW        | 17       | SSW        | 13       |
| 4           | 28              | 69         | 17         | 1          |            |              | 16   | S         | 22 | 6   | 13     | (9, 2) | 7  | 3.0  | 22     | 3.4  | 22     | S        | 24       | S          | 17       | SE         | 16       |
| 5           | 35              | 82         | 7          |            |            |              | 15   | NW        | 15 | 6   | 15     | 5.9    | 6  | 2.0  | 15     | 2.3  | 15     | SSW      | 25       | SSW        | 22       | SSW        | 25       |
| 6           | 15              | 69         | 21         |            |            |              | 20   | SSE       | 24 | 7*  | 24, 25 | 9.3    | 24 | 2.7  | 24     | 2.9  | 24, 25 | S        | 37       | S          | 28       | SSE        | 31       |
| 7           | 1               | 103        | 18         |            |            |              | 18   | ENE       | 22 | 5   | 19, 22 | 9.7    | 27 | 2.2  | 10, 22 | 2.4  | 10, 22 | S        | 29       | S          | 22       | SSE        | 36       |
| 8           | 10              | 79         | 27         | 8          |            |              | 15   | NNE, N    | 17 | 5   | 3天     | 15.0*  | 24 | 4.2  | 16, 17 | 4.6  | 16     | S        | 29       | S          | 23       | SSE        | 52       |
| 9           | 17              | 99         | 4          |            |            |              | 17   | ENE       | 16 | 6   | 16     | 6.8    | 6  | 1.8  | 27     | 1.9  | 16, 27 | S        | 19       | NNE        | 16       | NE         | 10       |
| 10          | 23              | 79         | 22         |            |            |              | 21*  | NW        | 20 | 7*  | 20     | 6.6    | 2  | 2.8  | 20     | 3.1  | 20     | SSW      | 23       | SSW        | 19       | ENE, SSW   | 12       |
| 11          | 5               | 61         | 53         | 1          |            |              | 18   | NNW       | 28 | 6   | 7天     | 7.2    | 24 | 3.0  | 24     | 3.4  | 10     | SSW, NNW | 17       | SSW        | 15       | SE, SSW    | 8        |
| 12          | 23              | 80         | 19         | 1          |            |              | 18   | NNW       | 19 | 7*  | 19     | 7.7    | 19 | 3.0  | 19     | 3.1  | 19     | NW       | 19       | NW         | 14       | NE         | 11       |
| 年平均<br>或年合计 | 215             | 889        | 289        | 23         | 1          |              |      |           |    |     |        |        |    |      |        |      |        | 年最多<br>S | 频率<br>19 | 年最多<br>SSW | 频率<br>15 | 年最多<br>SSE | 频率<br>12 |

# 小 麦 岛

| 项目<br>月份 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 |     |     |  |  |  |  |  |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|--|--|--|--|--|
| N        |          |          |          |          |          |          |          |          | NNE      |          |          |          |          |          |          |          |          | NE       |          |          |          |          |          |          | ENE |     |  |  |  |  |  |
| 1        | 7.9      | 13*      |          |          |          | 9        | 2        |          | 7.5      | 13       | 2.9      | 0.4      | 0.5      | 2        | 2        |          |          | 3.6      | 0.7      | 0.8      |          | 1        | 2.7      | 4        | 5   |     |  |  |  |  |  |
| 2        | 8.7      | 10       | 2.5      | 0.3      | 0.3*     | 3        | 1        |          | 5.0      | 6        |          |          |          |          |          |          |          | 4.3      | 5        |          |          |          | 4.3      | 5        | 4   |     |  |  |  |  |  |
| 3        | 8.0      | 11       |          |          |          | 2        |          |          | 11.7     | 17*      | 1.7      | 0.2      | 0.3      | 2        | 1        |          | 3.5      | 4        | 3.8      | 0.6      | 0.8      | 2        | 4        | 3.0      | 4   |     |  |  |  |  |  |
| 4        | 5.0      | 8        |          |          |          | 1        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 3.9      | 10       |     |     |  |  |  |  |  |
| 5        | 7.3      | 13*      |          |          |          | 6        |          |          | 7.5      | 10       |          |          |          |          |          |          |          |          |          |          |          | 2        | 2        | 4.3      | 8   |     |  |  |  |  |  |
| 6        | 7.0      | 7        |          |          |          | 1        |          |          |          |          |          |          |          |          |          |          | 6.5      | 10*      |          |          |          | 2        | 2        | 4.9      | 12* |     |  |  |  |  |  |
| 7        | 7.5      | 8        |          |          |          | 2        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 2        | 2        | 4.0      | 6   |     |  |  |  |  |  |
| 8        | 5.3      | 6        |          |          |          | 2        |          |          | 2.0      | 2        |          |          |          |          |          |          | 2.0      | 2        |          |          |          | 1        | 3        | 3.0      | 3   |     |  |  |  |  |  |
| 9        | 3.6      | 7        |          |          |          | 7        | 1        |          | 5.4      | 9        |          |          |          |          |          |          |          |          | 4.1      | 0.8      | 1.0*     |          | 3        | 7.8      | 12  |     |  |  |  |  |  |
| 10       | 7.2      | 9        |          |          |          | 7        |          |          | 6.7      | 11       | 2.2      | 0.4      | 0.5      | 2        | 1        |          |          |          |          |          |          | 2        | 2        | 3.0      | 3   |     |  |  |  |  |  |
| 11       | 7.7      | 10       |          |          |          | 3        |          |          | 8.0      | 12       | 3.1      | 0.6      | 1.0*     | 5        | 3        |          |          |          |          |          |          | 2        | 2        |          |     |     |  |  |  |  |  |
| 12       | 5.2      | 9        |          |          |          | 5        |          |          | 6.3      | 8        |          |          |          |          |          |          | 4.0      | 5        |          |          |          | 2        | 2        |          |     |     |  |  |  |  |  |
| 年平均      | 6.6      |          | 2.5      | 0.3      |          | 4        | 0        |          | 7.1      |          | 2.6      | 0.4      |          | 2        | 1        |          | 4.3      |          | 3.8      | 0.7      |          | 0        | 1        | 4.2      |     |     |  |  |  |  |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| E        |          |          |          |          |          |          |          |          | ESE      |          |          |          |          |          |          |          |          | SE       |          |          |          |          |          |          | SSE |     |  |  |  |  |  |
| 1        | 8.5      | 17*      | 4.7      | 2.4      | 3.2*     | 6        | 6        |          | 3.5      | 4        | 6.7      | 1.9      | 3.9*     | 2        | 3        | 10       |          |          | 4.3      | 0.6      | 1.1      |          | 10       | 4.0      | 5   |     |  |  |  |  |  |
| 2        | 4.2      | 7        | 3.3      | 1.1      | 2.9      | 12       | 4        | 1        | 4.2      | 7        | 4.7      | 0.9      | 2.1      | 10       | 8        | 19       | 2.0      | 2        | 4.8      | 0.7      | 1.2      | 1        | 2        | 7        | 3.7 | 5   |  |  |  |  |  |
| 3        | 6.8      | 13       | 3.5      | 0.8      | 1.8      | 14       | 9        | 3        | 3.9      | 8        | 4.1      | 0.8      | 1.7      | 15       | 6        | 8        | 3.0      | 4        | 4.1      | 0.5      | 1.2      | 6        | 13       | 19       | 4.0 | 6   |  |  |  |  |  |
| 4        | 7.3      | 13       | 4.3      | 1.0      | 2.1      | 18       | 7        | 3        | 5.1      | 7        | 2.8      | 0.6      | 1.3      | 13       | 18       |          | 4.0      | 7        | 4.9      | 1.0      | 2.8      | 3        | 4        | 27       | 4.0 | 8   |  |  |  |  |  |
| 5        | 4.3      | 7        | 3.3      | 0.5      | 0.8      | 13       | 4        |          | 5.2      | 14*      | 3.8      | 0.5      | 1.6      | 13       | 6        | 5        | 2.7      | 4        | 4.8      | 0.7      | 1.6      | 5        | 4        | 16       | 7.5 | 8   |  |  |  |  |  |
| 6        | 3.8      | 9        | 4.5      | 0.8      | 1.2      | 18       | 5        | 1        | 4.8      | 14*      | 4.5      | 0.7      | 1.2      | 24       | 20       | 10       | 4.0      | 6        | 4.8      | 0.6      | 1.2      | 5        | 2        | 23       | 5.5 | 10* |  |  |  |  |  |
| 7        | 4.1      | 8        |          |          |          | 15       | 2        |          | 5.6      | 14*      | 4.1      | 0.8      | 1.6      | 17       | 17       | 12       | 3.8      | 8*       | 5.1      | 1.0      | 2.4      | 13       | 10       | 31       | 4.2 | 7   |  |  |  |  |  |
| 8        | 6.0      | 10       | 3.9      | 1.5      | 2.0      | 18       | 8        |          | 5.3      | 10       | 3.4      | 0.7      | 1.8      | 20       | 25       | 2        | 4.3      | 6        | 5.2      | 1.1      | 3.3*     | 14       | 15       | 27       | 3.8 | 6   |  |  |  |  |  |
| 9        | 7.2      | 15       | 4.3      | 1.0      | 2.8      | 5        | 4        | 3        | 4.7      | 7        | 4.3      | 0.9      | 2.3      | 3        | 4        | 8        | 2.8      | 5        | 4.5      | 0.7      | 1.8      | 8        | 5        | 38       | 4.1 | 6   |  |  |  |  |  |
| 10       | 8.8      | 14       | 3.9      | 0.8      | 1.2      | 3        | 3        | 2        | 3.5      | 6        | 4.1      | 0.5      | 1.3      | 10       | 6        | 2        | 3.5      | 5        | 4.6      | 0.6      | 1.4      | 3        | 4        | 19       | 3.4 | 6   |  |  |  |  |  |
| 11       | 9.3      | 12       | 4.2      | 1.0      | 1.7      | 3        | 4        | 4        | 6.0      | 8        | 4.5      | 1.0      | 1.5      | 6        | 2        | 3        | 6.3      | 8*       | 4.0      | 0.7      | 1.5      | 3        | 8        | 5        | 5.2 | 8   |  |  |  |  |  |
| 12       |          |          |          |          |          |          |          |          | 6.4      | 9        | 4.8      | 1.3      | 2.7      | 4        | 4        | 9        |          |          | 4.6      | 0.4      | 0.6      |          | 15       |          | 2.7 | 4   |  |  |  |  |  |
| 年平均      | 5.8      |          | 4.0      | 1.0      |          | 10       | 5        | 1        | 4.9      |          | 4.2      | 0.9      |          | 11       | 10       | 7        | 3.7      |          | 4.7      | 0.8      |          | 5        | 6        | 20       | 4.2 |     |  |  |  |  |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| S        |          |          |          |          |          |          |          |          | SSW      |          |          |          |          |          |          |          |          | SW       |          |          |          |          |          |          | WSW |     |  |  |  |  |  |
| 1        | 2.5      | 3        | 4.3      | 0.6      | 0.7      | 3        | 3        |          | 7.2      | 12       | 4.2      | 1.0      | 3.5*     | 10       | 11       | 10       | 7.1      | 15*      | 3.7      | 0.8      | 2.4      | 12       | 16       | 6        | 4.8 | 8   |  |  |  |  |  |
| 2        | 3.7      | 5        | 4.2      | 0.8      | 1.7      | 3        | 3        | 5        | 6.3      | 10       | 3.9      | 1.0      | 1.8      | 11       | 9        | 9        | 6.8      | 9        | 3.2      | 0.7      | 1.5      | 4        | 6        | 3        | 4.0 | 5   |  |  |  |  |  |
| 3        | 4.2      | 6        | 3.7      | 0.4      | 1.1      | 5        | 4        | 5        | 6.1      | 10       | 3.8      | 0.7      | 1.6      | 6        | 7        | 7        | 4.2      | 6        | 3.1      | 0.2      | 0.3      | 5        | 2        |          | 3.0 | 3   |  |  |  |  |  |
| 4        | 4.0      | 8        | 3.7      | 0.6      | 1.1      | 3        | 3        | 3        | 6.3      | 9        | 3.3      | 0.7      | 1.2      | 8        | 7        | 3        | 5.9      | 9        | 2.4      | 0.4      | 0.7      | 10       | 10       |          | 3.5 | 6   |  |  |  |  |  |
| 5        | 3.0      | 4        | 3.5      | 0.7      | 1.3      | 2        | 2        | 3        | 4.7      | 8        | 3.6      | 0.6      | 1.2      | 8        | 5        | 12       | 3.5      | 8        | 2.7      | 0.4      | 1.1      | 9        | 8        | 4        | 3.4 | 5   |  |  |  |  |  |
| 6        | 13.5     | 15*      | 4.4      | 1.4      | 3.0*     | 2        | 4        | 6        | 6.9      | 14       | 4.5      | 1.4      | 2.7      | 11       | 11       | 3        | 4.8      | 7        | 2.8      | 0.5      | 0.6      | 4        | 2        |          |     |     |  |  |  |  |  |
| 7        | 4.4      | 8        | 4.0      | 0.6      | 0.9      | 9        | 6        | 4        | 3.6      | 6        | 3.5      | 0.6      | 0.9      | 6        | 3        |          | 7.0      | 9        | 5.4      | 0.9      | 1.2      | 2        | 1        |          | 6.0 | 6   |  |  |  |  |  |
| 8        | 4.8      | 7        | 4.4      | 0.8      | 1.8      | 3        | 2        | 9        | 4.3      | 7        | 3.3      | 0.5      | 1.0      | 6        | 6        | 1        | 4.4      | 6        | 3.2      | 0.5      | 0.6      | 4        | 2        |          | 2.0 | 2   |  |  |  |  |  |
| 9        | 5.3      | 9        | 3.3      | 0.6      | 1.1      | 12       | 7        | 2        | 4.6      | 8        | 3.1      | 0.5      | 1.0      | 10       | 11       | 1        | 5.0      | 7        | 3.3      | 0.5      | 1.1      | 3        | 4        | 1        | 4.0 | 7   |  |  |  |  |  |
| 10       | 5.0      | 10       | 3.8      | 0.6      | 2.1      | 5        | 3        | 16       | 6.0      | 12       | 3.7      | 0.8      | 1.9      | 10       | 15       | 5        | 4.0      | 4        | 3.6      | 0.8      | 1.4      | 1        | 5        | 1        | 5.3 | 9*  |  |  |  |  |  |
| 11       | 3.2      | 5        | 4.1      | 0.8      | 1.6      | 5        | 2        | 6        | 7.2      | 14*      | 4.1      | 1.1      | 3.0      | 11       | 11       | 3        | 7.1      | 10       | 4.0      | 1.1      | 2.5*     | 8        | 7        | 3        | 4.8 | 7   |  |  |  |  |  |
| 12       | 5.0      | 5        | 4.0      | 0.7      | 1.4      | 1        | 2        | 4        | 4.8      | 11       | 3.7      | 0.6      | 1.3      | 9        | 5        | 7        | 4.4      | 6        | 3.2      | 0.6      | 1.4      | 8        | 9        | 2        | 7.4 | 5   |  |  |  |  |  |
| 年平均      | 4.6      |          | 4.0      | 0.7      |          | 4        | 3        | 6        | 5.9      |          | 3.8      | 0.8      |          | 10       | 8        | 5        | 5.5      |          | 3.3      | 0.7      |          | 5        | 6        | 2        | 4.1 |     |  |  |  |  |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| W        |          |          |          |          |          |          |          |          | WNW      |          |          |          |          |          |          |          |          | NW       |          |          |          |          |          |          | NNW |     |  |  |  |  |  |
| 1        | 6.0      | 6*       | 1.5      | 0.2      | 0.3      | 1        | 1        |          | 8.0      | 15*      | 2.7      | 0.5      | 0.8*     | 5        | 6        |          | 6.2      | 14       | 1.9      | 0.5      | 0.8      | 10       | 7        |          | 8.4 | 18  |  |  |  |  |  |
| 2        | 3.7      | 5        |          |          |          | 3        | 1        |          | 6.5      | 8        | 2.4      | 0.4      | 0.5      | 2        | 2        |          | 10.1     | 17*      | 2.3      | 0.4      | 1.1      | 15       | 23       |          | 8.8 | 16  |  |  |  |  |  |
| 3        | 2.5      | 3        | 2.9      | 0.4      | 0.5      | 2        | 1        |          | 5.0      | 9        | 1.8      | 0.2      | 0.4      | 4        | 3        |          | 8.3      | 10       | 2.3      | 0.4      | 0.8      | 8        | 9        |          | 8.2 | 20* |  |  |  |  |  |
| 4        |          |          | 1.7      | 0.5      | 0.7*     |          | 2        |          | 11.0     | 15*      | 2.6      | 0.4      | 0.5      | 5        | 3        |          | 6.9      | 14       | 1.9      | 0.4      | 0.7      | 7        | 10       |          | 8.3 | 14  |  |  |  |  |  |
| 5        | 4.0      | 6*       |          |          |          | 3        | 1        |          | 5.0      | 7        | 2.4      | 0.4      | 0.5      | 6        | 3        |          | 8.4      | 12       | 2.3      | 0.3      | 0.5      | 8        | 7        |          | 7.9 | 10  |  |  |  |  |  |
| 6        |          |          |          |          |          |          |          |          | 8.5      | 11       |          |          |          | 5        | 5        |          | 6.0      | 7        |          |          |          | 3        | 4        |          | 6.4 | 10  |  |  |  |  |  |
| 7        | 3.0      | 3        |          |          |          |          |          |          | 5.8      | 13       |          |          |          | 4        |          |          | 10.0     | 14       | 2.3      | 0.3      | 0.5      | 3        | 10       |          | 7.9 | 11  |  |  |  |  |  |
| 8        |          |          |          |          |          |          |          |          | 3.7      | 4        |          |          |          | 2        |          |          | 5.9      | 14       |          |          |          | 9        | 6        |          | 8.8 | 12  |  |  |  |  |  |
| 9        | 5.0      | 5        |          |          |          | 1        |          |          |          |          |          |          |          |          |          |          | 5.6      | 12       | 1.9      | 0.3      | 0.5      | 8        | 8        |          | 6.0 | 13  |  |  |  |  |  |
| 10       | 3.0      | 3        |          |          |          | 1        | 1        |          | 7.1      | 14       | 2.0      | 0.3      | 0.4      | 6        | 6        |          | 6.9      | 16       | 2.4      | 0.4      | 1.1      | 19       | 19       |          | 8.5 | 18  |  |  |  |  |  |
| 11       | 4.0      | 4        |          |          |          | 1        |          |          | 9.2      | 13       | 2.2      | 0.4      | 0.6      | 4        | 3        |          | 9.8      | 15       | 2.3      | 0.4      | 1.2*     | 21       | 28       |          | 9.3 | 16  |  |  |  |  |  |
| 12       | 4.0      | 4        | 1.7      | 0.3      | 0.4      | 1        | 1        |          | 3.9      | 9        | 1.8      | 0.2      | 0.4      | 8        | 2        |          | 5.6      | 14       | 2.3      | 0.4      | 0.9      | 23       | 17       |          | 6.6 | 14  |  |  |  |  |  |
| 年平均      | 3.8      |          | 1.9      | 0.4      |          | 1        | 1        |          | 6.7      |          | 2.3      | 0.4      |          | 4        | 3        |          | 7.9      |          | 2.2      | 0.4      |          | 11       | 12       |          | 7.9 |     |  |  |  |  |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| C        |          |          |          |          |          |          |          |          | *        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 1        |          |          |          |          |          | 5        | 34       | 60       |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 2        |          |          |          |          |          | 1        | 28       | 56       |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 3        |          |          |          |          |          | 6        | 35       | 45       |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 4        |          |          |          |          |          | 3        | 31       | 58       |          |          | 3.0      | 0.6      | 0.6      |          | 1        |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 5        |          |          |          |          |          | 6        | 50       | 51       |          |          | 4.2      | 0.5      | 0.7*     |          | 1        |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 6        |          |          |          |          |          | 3        | 41       | 23       |          |          | 2.6      | 0.4      | 0.5      |          | 1        |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 7        |          |          |          |          |          | 6        | 32       | 23       |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 8        |          |          |          |          |          | 7        | 30       | 22       |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 9        |          |          |          |          |          | 8        | 42       | 43       |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 10       |          |          |          |          |          | 2        | 29       | 17       |          |          | 2.4      | 0.3      | 0.4      |          | 1        |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |
| 11       |          |          |          |          |          | 2        | 20       | 67       |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |  |  |  |  |  |

# 千 里 岩

| 项目<br>月份 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 | 平均<br>风速 | 最大<br>风速 | 平均<br>周期 | 平均<br>波高 | 最大<br>波高 | 风的<br>频率 | 风浪<br>频率 | 涌浪<br>频率 |    |   |  |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|---|--|
| N        |          |          |          |          |          |          |          |          | NNE      |          |          |          |          |          |          |          |          | NE       |          |          |          |          |          |          |          |          | ENE      |          |          |          |          |          |    |   |  |
| 1        | 9.6      | 17*      | 5.6      | 1.5      | 2.7      | 15       | 13       | 6        | 14.6     | 19       | 5.7      | 1.9      | 3.4      | 7        | 7        | 1        | 16.7     | 18       | 5.2      | 2.1      | 3.2*     | 6        | 7        | 1        |          |          |          | 5.0      | 1.2      | 1.8      |          | 1        | 3  |   |  |
| 2        | 8.2      | 13       | 4.3      | 1.2      | 1.7      | 8        | 10       | 3        | 14.3     | 20*      | 4.9      | 1.7      | 4.0*     | 6        | 8        | 5        | 11.1     | 21*      | 5.1      | 1.6      | 3.2*     | 10       | 8        | 4        |          | 7.0      | 7        | 4.0      | 0.4      | 0.8      | 1        | 1        | 8  |   |  |
| 3        | 9.0      | 15       |          |          |          | 2        | 2        |          | 11.3     | 19       | 5.6      | 1.7      | 3.2      | 6        | 5        | 5        | 9.5      | 15       | 3.6      | 0.5      | 1.0      | 9        | 5        | 8        |          | 6.3      | 12       | 3.5      | 0.5      | 1.2      | 3        | 5        | 5  |   |  |
| 4        | 7.8      | 10       |          |          |          | 4        | 3        |          | 8.0      | 9        | 4.9      | 1.1      | 1.8      | 2        | 2        | 10       | 6.0      | 10       | 3.2      | 0.4      | 0.5      | 3        | 3        |          |          | 8.0      | 11       | 4.2      | 0.8      | 1.4      | 3        | 3        | 5  |   |  |
| 5        | 7.0      | 11       |          |          |          | 3        | 2        |          | 9.8      | 14       | 5.5      | 1.3      | 1.8      | 4        | 4        | 3        | 6.1      | 11       | 3.6      | 0.6      | 1.2      | 8        | 4        | 2        |          | 4.0      | 4        | 3.1      | 0.5      | 0.6      | 2        | 2        | 2  |   |  |
| 6        | 8.5      | 9        | 3.7      | 1.1      | 1.2      | 2        | 3        |          | 7.0      | 9        | 3.8      | 1.1      | 1.1      | 2        | 1        |          | 2.7      | 4        | 4.5      | 0.7      | 1.1      | 3        | 4        |          |          | 5.8      | 9        |          |          |          | 5        | 2        |    |   |  |
| 7        | 7.3      | 10       | 2.3      | 0.5      | 0.6      | 2        | 3        |          | 4.5      | 6        |          |          |          | 2        | 1        |          | 10.0     | 15       |          |          |          | 2        | 1        | 7        |          | 9.0      | 18*      | 5.3      | 1.2      | 2.4*     | 4        | 6        | 7  |   |  |
| 8        | 9.4      | 15       | 5.3      | 2.6      | 3.0      | 4        | 4        |          | 8.3      | 15       | 4.0      | 1.0      | 1.4      | 5        | 5        | 1        | 6.7      | 10       | 3.8      | 0.6      | 1.0      | 5        | 5        |          |          | 7.1      | 11       | 3.8      | 0.6      | 0.8      | 12       | 13       | 2  |   |  |
| 9        | 5.8      | 9        | 3.4      | 0.6      | 1.0      | 3        | 3        | 2        | 8.0      | 12       | 4.2      | 1.0      | 1.9      | 18       | 16       | 8        | 7.9      | 14       | 4.3      | 1.0      | 1.7      | 13       | 12       | 10       |          | 6.6      | 17       | 4.5      | 0.8      | 1.9      | 6        | 7        | 5  |   |  |
| 10       | 7.1      | 13       | 4.7      | 1.3      | 1.8      | 6        | 6        | 1        | 9.5      | 15       | 4.7      | 1.3      | 2.4      | 14       | 15       | 8        | 7.0      | 11       | 3.4      | 0.5      | 1.0      | 6        | 2        | 5        |          | 2.0      | 2        | 4.4      | 0.8      | 1.9      | 2        | 1        | 12 |   |  |
| 11       | 13.6     | 16       | 5.0      | 1.8      | 3.4*     | 5        | 9        |          | 12.4     | 17       | 5.5      | 1.7      | 3.2      | 6        | 5        | 4        | 15.0     | 16       | 5.1      | 1.5      | 2.2      | 3        | 4        | 3        |          | 11.0     | 13       | 4.6      | 0.8      | 1.3      | 2        | 1        | 3  |   |  |
| 12       | 7.1      | 12       | 4.1      | 1.1      | 1.4      | 6        | 5        |          | 8.8      | 17       | 4.5      | 1.3      | 2.8      | 10       | 9        | 5        | 10.0     | 16       | 4.6      | 1.1      | 2.0      | 13       | 11       | 11       |          | 7.0      | 7        | 3.9      | 0.8      | 1.8      | 2        | 1        | 4  |   |  |
| 年平均      | 8.6      |          | 4.7      | 1.4      |          | 5        | 5        | 1        | 10.0     |          | 4.9      | 1.3      |          | 7        | 6        | 4        | 9.2      |          | 4.4      | 1.1      |          | 7        | 5        | 4        |          | 6.9      |          | 4.3      | 0.8      |          | 3        | 3        | 5  |   |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    |   |  |
| E        |          |          |          |          |          |          |          |          | ESE      |          |          |          |          |          |          |          |          | SE       |          |          |          |          |          |          |          |          | SSE      |          |          |          |          |          |    |   |  |
| 1        |          |          |          |          |          |          |          |          | 5.0      | 5        | 12.0     | 4.1      | 5.4*     | 1        | 1        | 3        | 2.5      | 3        |          |          |          | 2        |          |          |          |          | 3.0      | 3        | 6.1      | 1.0      | 1.3      | 1        | 2  |   |  |
| 2        | 3.0      | 4        | 3.0      | 0.5      | 0.7      | 2        | 1        | 3        | 3.0      | 3        | 7.2      | 1.9      | 2.5      | 1        | 1        | 4        | 3.0      | 4        | 2.7      | 0.2      | 0.2      | 3        | 2        |          |          |          | 5.0      | 5        | 5.7      | 1.0      | 1.0      |          | 1  | 1 |  |
| 3        | 6.3      | 9*       | 3.7      | 0.5      | 0.6      | 3        | 1        | 4        | 2.5      | 3        | 6.4      | 0.6      | 1.1      | 2        | 6        |          | 3.5      | 6        | 2.8      | 0.6      | 0.6      | 3        | 1        |          |          | 3.0      | 3        | 2.5      | 0.3      | 0.3      |          | 1        | 1  |   |  |
| 4        | 4.9      | 9*       |          |          |          | 8        | 2        |          | 4.3      | 7*       | 6.2      | 1.1      | 2.4      | 5        | 3        | 3        | 7.0      | 13*      | 4.8      | 0.6      | 1.4      | 8        | 4        | 15       |          | 5.0      | 7        | 7.1      | 2.4      | 3.2      | 2        | 2        | 3  |   |  |
| 5        | 3.0      | 3        |          |          |          | 1        |          |          | 3.3      | 4        | 3.7      | 0.4      | 0.7      | 2        | 1        | 1        | 6.8      | 9        | 4.2      | 0.5      | 1.0      | 5        | 2        | 5        |          | 6.7      | 7        | 3.5      | 0.7      | 1.3      | 2        | 4        | 1  |   |  |
| 6        | 4.5      | 5        |          |          |          | 2        |          |          | 4.0      | 4        |          |          |          | 1        |          |          | 4.3      | 6        | 5.6      | 0.9      | 2.3      | 7        | 2        | 16       |          | 6.9      | 20*      | 5.5      | 1.3      | 2.9      | 8        | 4        | 31 |   |  |
| 7        | 4.3      | 6        |          |          |          | 2        | 1        |          |          |          | 5.5      | 0.9      | 1.4      |          | 5        |          | 4.0      | 8        | 7.1      | 0.8      | 1.1      | 2        | 1        | 7        |          | 4.1      | 9        | 5.7      | 1.0      | 2.4      | 11       | 7        | 36 |   |  |
| 8        | 5.8      | 8        | 3.3      | 0.4      | 0.5      | 4        | 3        |          | 3.0      | 3        |          |          |          | 2        |          |          |          |          | 10.6     | 2.2      | 4.5*     |          |          | 10       |          | 3.2      | 8        | 6.9      | 1.5      | 4.6*     | 8        | 10       | 52 |   |  |
| 9        | 3.0      | 4        | 5.5      | 0.9      | 1.6*     | 3        | 2        | 8        | 6.0      | 6        | 5.0      | 0.6      | 0.9      | 1        | 3        |          | 2.0      | 2        |          | 5.7      | 1.1      | 1.6      |          |          | 7        | 3.0      | 3        |          |          |          | 3        | 1        | 8  |   |  |
| 10       | 2.5      | 3        | 4.0      | 0.7      | 0.9      | 2        | 1        | 2        | 2.3      | 3        |          |          |          | 2        |          |          |          |          |          |          |          | 2        | 1        |          |          | 2.8      | 4        | 4.6      | 1.0      | 1.1      | 5        |          | 2  |   |  |
| 11       | 5.0      | 5        |          |          |          | 1        | 1        |          | 2.0      | 2        |          |          |          | 1        |          |          |          |          | 5.3      | 0.9      | 1.1      |          |          | 8        |          | 8.0      | 11       | 4.8      | 1.2      | 1.7      | 3        | 3        | 2  |   |  |
| 年平均      | 4.6      |          | 4.5      | 0.7      |          | 2        | 1        | 1        | 3.5      |          | 6.7      | 1.3      |          | 1        | 0        | 2        | 4.9      |          | 5.8      | 0.9      |          | 2        | 1        | 6        |          | 4.6      |          | 6.1      | 1.3      |          | 4        | 3        | 12 |   |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    |   |  |
| S        |          |          |          |          |          |          |          |          | SSW      |          |          |          |          |          |          |          |          | SW       |          |          |          |          |          |          |          |          | WSW      |          |          |          |          |          |    |   |  |
| 1        | 5.8      | 13       | 4.0      | 1.0      | 1.4      | 5        | 1        | 2        | 11.3     | 19*      | 5.5      | 1.8      | 4.4*     | 21       | 20       | 15       | 6.8      | 12       | 4.7      | 1.0      | 1.6      | 9        | 10       | 10       |          | 4.5      | 7        | 3.9      | 0.8      | 0.9      | 3        | 2        | 2  |   |  |
| 2        | 7.2      | 14       | 4.2      | 0.8      | 1.8      | 18       | 10       | 4        | 10.1     | 14       | 5.3      | 1.6      | 3.7      | 14       | 15       | 14       | 6.8      | 12       | 3.7      | 0.6      | 0.8      | 4        | 2        | 1        |          | 4.0      | 5        |          |          |          | 2        | 1        |    |   |  |
| 3        | 7.0      | 17*      | 3.6      | 0.7      | 1.6      | 24       | 15       | 9        | 6.7      | 11       | 4.3      | 1.0      | 1.9      | 20       | 17       | 13       | 4.0      | 9        | 3.7      | 0.7      | 1.2      | 3        | 2        | 5        |          | 9.0      | 9        | 3.6      | 0.4      | 0.5      | 1        | 1        | 2  |   |  |
| 4        | 7.8      | 16       | 4.8      | 1.4      | 3.4*     | 24       | 17       | 6        | 6.7      | 12       | 3.7      | 0.6      | 1.3      | 14       | 13       | 10       | 6.5      | 10       | 3.5      | 0.7      | 0.8      | 5        | 3        |          |          | 4.0      | 6        | 3.2      | 0.6      | 0.7      | 2        | 1        |    |   |  |
| 5        | 6.6      | 12       | 3.9      | 0.8      | 1.6      | 17       | 15       | 13       | 6.6      | 10       | 3.6      | 0.7      | 1.9      | 25       | 22       | 25       | 7.0      | 10       | 3.6      | 0.4      | 0.8      | 14       | 15       | 4        |          | 10.0     | 10       | 3.5      | 0.5      | 0.6      | 1        | 2        | 4  |   |  |
| 6        | 7.1      | 17*      | 4.4      | 1.1      | 2.9      | 37       | 28       | 11       | 8.6      | 16       | 3.9      | 0.8      | 2.3      | 19       | 22       | 9        | 5.6      | 8        |          |          |          | 4        | 1        |          |          | 8.0      | 8        |          |          |          | 1        | 1        |    |   |  |
| 7        | 6.2      | 14       | 4.9      | 1.1      | 2.3      | 29       | 22       | 13       | 6.6      | 10       | 4.1      | 0.9      | 1.7      | 23       | 16       | 5        | 4.7      | 6        | 3.9      | 0.7      | 1.0      | 2        | 3        | 2        |          |          |          |          |          |          |          |          |    |   |  |
| 8        | 5.8      | 10       | 4.5      | 1.0      | 2.1      | 29       | 23       | 13       | 4.5      | 8        | 3.0      | 0.5      | 0.6      | 15       | 9        |          | 5.0      | 6        | 4.2      | 0.9      | 1.3      | 2        | 2        | 3        |          | 5.0      | 8        | 3.7      | 1.2      | 1.3      | 2        | 2        |    |   |  |
| 9        | 4.3      | 8        | 4.4      | 0.8      | 1.4      | 19       | 9        | 6        | 5.3      | 10       | 3.6      | 0.7      | 1.2      | 13       | 10       | 8        | 4.6      | 9        | 3.8      | 0.6      | 1.1      | 4        | 2        | 4        |          | 3.7      | 6        | 3.4      | 0.5      | 0.8      | 3        | 2        | 2  |   |  |
| 10       | 4.2      | 9        | 4.8      | 0.9      | 2.1      | 10       | 3        | 6        | 7.1      | 17       | 4.2      | 0.9      | 2.3      | 23       | 19       | 12       | 6.7      | 11       | 4.0      | 0.8      | 2.2      | 6        | 8        | 7        |          | 6.2      | 14*      |          |          |          | 4        | 2        | 1  |   |  |
| 11       | 6.0      | 9        | 3.5      | 0.6      | 1.0      | 10       | 10       | 3        | 10.1     | 15       | 4.5      | 1.5      | 3.0      | 17       | 15       | 8        | 8.4      | 13*      | 5.6      | 2.0      | 3.0*     | 7        | 7        | 7        |          | 3.5      | 4        | 3.8      | 0.7      | 1.2      | 2        | 1        | 3  |   |  |
| 12       | 6.7      | 8        | 3.8      | 0.7      | 1.3      | 2        | 3        | 1        | 6.0      | 10       | 4.2      | 0.9      | 1.6      | 7        | 3        | 7        | 5.8      | 11       | 3.1      | 0.5      | 1.5      | 7        | 6        | 7        |          | 5.3      | 7        | 4.8      | 1.1      | 2.6*     | 5        | 4        | 7  |   |  |
| 年平均      | 6.4      |          | 4.4      | 1.0      |          | 19       | 13       | 7        | 7.6      |          | 4.3      | 1.1      |          | 18       | 15       | 10       | 6.4      |          | 4.0      | 0.8      |          | 6        | 5        | 4        |          | 5.2      |          | 4.0      | 0.8      |          | 2        | 2        | 2  |   |  |
| 成年频率     |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    |   |  |
| W        |          |          |          |          |          |          |          |          | WNW      |          |          |          |          |          |          |          |          | NW       |          |          |          |          |          |          |          |          | NNW      |          |          |          |          |          |    |   |  |
| 1        | 4.2      | 7        |          |          |          | 5        | 2        |          | 10.3     | 19*      | 4.6      | 1.8      | 2.8      | 7        | 6        | 2        | 10.9     | 18       | 4.2      | 1.5      | 2.9      | 10       | 11       | 2        |          | 8.0      | 15       | 3.8      | 1.2      | 1.4      | 7        | 7        | 1  |   |  |
| 2        | 4.0      | 4        | 3.6      | 0.7      | 1.3*     | 1        | 1        | 1        | 11.8     | 19*      | 4.0      | 1.0      | 1.6      | 8        | 7        |          | 11.5     | 19       | 5.2      | 1.6      | 3.2*     | 15       | 16       | 4        |          | 8.8      | 13       | 4.5      | 1.2      | 2.1      | 8        | 8        | 2  |   |  |
| 3        | 4.0      | 7        |          |          |          | 2        | 1        |          | 6.4      | 13       | 4.0      | 0.8      | 1.9      | 4        | 4        | 6        | 7.8      | 11       | 3.4      | 0.8      | 1.4      | 4        | 6        |          |          | 6.8      | 21*      | 5.1      | 1.6      | 2.8      | 9        | 5        | 2  |   |  |
| 4        | 8.9      | 13*      | 3.4      | 0.6      | 0.8      | 6        | 5        | 1        | 8.4      | 15       | 4.5      | 1.3      | 2.3      | 6        | 7        | 3        | 7.6      | 15       | 3.6      | 0.9      | 2.5      | 4        | 3        | 3        |          | 3.0      | 3        | 3.9      | 0.6      | 0.9      | 1        | 2        | 3  |   |  |
| 5        | 4.9      | 8        | 3.7      | 0.7      | 0.8      | 7        | 4        |          | 10.0     | 12       | 3.9      | 0.7      | 1.2      | 2        | 2        | 3        | 8.8      | 15       | 4.3      | 1.6      | 2.3      | 4        | 4        | 2        |          | 5.3      | 9        | 3.8      | 1.3      | 1.5      | 2        | 2        |    |   |  |
| 6        | 5.7      | 9        |          |          |          | 3        | 1        |          | 5.0      | 5        | 3.3      | 0.3      | 0.4      | 1        | 1        | 2        | 7.0      | 7        | 2.7      | 0.4      | 0.5      | 1        | 4        | 1        |          | 4.4      | 6        | 3.7      | 0.8      | 1.0      | 4        | 3        |    |   |  |
| 7        | 3.0      | 4        |          |          |          | 2        | 1        |          | 8.2      | 12       | 3.5      | 0.7      | 1.0      | 4        | 5        |          | 5.4      | 13       | 4.5      | 0.9      | 1.8      | 6        | 4        | 2        |          | 9.3      | 10       |          |          |          | 2        | 2        |    |   |  |
| 8        | 3.0      | 3        |          |          |          | 1        |          |          | 5.3      | 7        |          |          |          | 2        | 2        |          | 6.2      | 11       | td       |          |          |          |          |          |          |          |          |          |          |          |          |          |    |   |  |

# 乳 山 口

| 月<br><br>份 | 表 层 水 温 (°C) |        |        |        |        | 表 层 盐 度 (‰) |        |        |        |        | 有海<br>发<br>光<br>日<br>数 | 无海<br>发<br>光<br>日<br>数 | 平<br>均<br>风<br>速<br><br>(米/秒) | 平<br>均<br>周<br>期<br><br>(秒) | 平<br>均<br>波<br>高<br><br>(米) | 海 况 (级) 出 现 回 数 |   |   |   |   |    | 波 型 出 现 回 数 |        |
|------------|--------------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|------------------------|------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------|---|---|---|---|----|-------------|--------|
|            | 平<br>均       | 最<br>高 | 日<br>期 | 最<br>低 | 日<br>期 | 平<br>均      | 最<br>大 | 日<br>期 | 最<br>小 | 日<br>期 |                        |                        |                               |                             |                             | 0-2             | 3 | 4 | 5 | 6 | ≥7 | 风<br>浪      | 涌<br>浪 |
| 1          | 1.3          | 4.4    | 10     | -1.2   | 16     | 31.08       | 31.64  | 26     | 28.30  | 3      | 4                      | 8                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 2          | 1.9          | 4.0    | 3 天    | -1.6*  | 1      | 31.13       | 31.47  | 8,22   | 30.59  | 16     | 0                      | 10                     |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 3          | 5.8          | 9.3    | 28     | 2.0    | 1      | 31.43       | 31.73* | 26,27  | 30.55  | 31     | 2                      | 3                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 4          | 10.9         | 15.0   | 25     | 7.7    | 3      | 30.07       | 31.17  | 5      | 27.39  | 16     | 7                      | 3                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 5          | 16.8         | 21.9   | 30     | 12.9   | 1      | 30.14       | 30.75  | 25     | 28.77  | 16     | 2                      | 3                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 6          | 21.9         | 26.5   | 29     | 19.6   | 6      | 27.24       | 30.43  | 3      | 14.45  | 27     | 3                      | 2                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 7          | 25.4         | 28.9   | 30     | 23.0   | 11     | 25.90       | 29.34  | 8      | 20.10  | 14     | 10                     | 6                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 8          | 27.5         | 30.7*  | 13     | 25.4   | 7,30   | 23.32       | 28.35  | 20     | 6.19*  | 4      | 18                     | 4                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 9          | 22.7         | 25.7   | 1      | 19.2   | 28     | 28.33       | 29.49  | 20     | 24.56  | 11     | 11                     | 2                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 10         | 17.6         | 20.8   | 1      | 14.7   | 22     | 20.49       | 30.62  | 31     | 27.45  | 10     | 10                     | 0                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 11         | 10.7         | 18.0   | 4 天    | 3.9    | 30     | 30.17       | 31.22  | 30     | 25.82  | 8      | 11                     | 1                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 12         | 4.8          | 7.0    | 6      | 2.0    | 25,29  | 30.55       | 31.20  | 2      | 29.51  | 23     | 6                      | 2                      |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 年平均        |              |        |        |        |        |             |        |        |        |        |                        |                        |                               |                             |                             |                 |   |   |   |   |    |             |        |
| 成年合计       | 14.0         |        |        |        |        | 29.07       |        |        |        |        | 84                     | 44                     |                               |                             |                             |                 |   |   |   |   |    |             |        |

| 月<br><br>份 | 波高(级)出现回数    |            |            |            |            |             |    | 最大 值 统 计 |    |     |    |     |    |     |    |      |     | 最多风向 |        | 最多风浪向 |        | 最多涌浪向 |        |
|------------|--------------|------------|------------|------------|------------|-------------|----|----------|----|-----|----|-----|----|-----|----|------|-----|------|--------|-------|--------|-------|--------|
|            | 0.0          | 0.8        | 1.3        | 2.0        | 3.5        | ≥           |    | 风        |    | 海 况 |    | 周 期 |    | 波 高 |    | 最大波高 |     | 向    | 频<br>率 | 向     | 频<br>率 | 向     | 频<br>率 |
|            | 0.7<br>(0-2) | 1.2<br>(3) | 1.9<br>(4) | 3.4<br>(5) | 6.0<br>(6) | 6.1<br>(≥7) | 风速 | 风 向      | 日期 | 级   | 日期 | 秒   | 日期 | 米   | 日期 | 米    | 日期  |      |        |       |        |       |        |
| 1          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 2          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 3          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 4          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 5          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 6          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 7          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 8          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 9          |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 10         |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 11         |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 12         |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |
| 年平均        |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      | 年最多 | 频率   | 年最多    | 频率    | 年最多    | 频率    |        |
| 成年合计       |              |            |            |            |            |             |    |          |    |     |    |     |    |     |    |      |     |      |        |       |        |       |        |

# 石 岛

| 月<br>份      | 表 层 水 温 (°C) |        |        |        |        | 表 层 盐 度 (‰) |        |        |        |        | 有<br>海<br>发<br>光<br>日<br>数 | 无<br>海<br>发<br>光<br>日<br>数 | 平<br>均<br>风<br>速<br>(米/秒) | 平<br>均<br>周<br>期<br>(秒) | 平<br>均<br>波<br>高<br>(米) | 海 况 (级) 出 现 回 数 |     |     |    |    |    | 波 型 出 现 回 数 |        |
|-------------|--------------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|----------------------------|----------------------------|---------------------------|-------------------------|-------------------------|-----------------|-----|-----|----|----|----|-------------|--------|
|             | 平<br>均       | 最<br>高 | 日<br>期 | 最<br>低 | 日<br>期 | 平<br>均      | 最<br>大 | 日<br>期 | 最<br>小 | 日<br>期 |                            |                            |                           |                         |                         | 0-2             | 3   | 4   | 5  | 6  | ≥7 | 风<br>浪      | 涌<br>浪 |
| 1           | 3.6          | 5.7    | 8      | 0.5    | 31     | 31.54       | 31.96* | 29     | 31.42  | 28,31  | 5                          | 16                         | 6.6                       | 2.3                     | 0.5                     | 69              | 31  | 16  | 6  | 2  |    | 122         | 29     |
| 2           | 2.2          | 3.8    | 23     | 0.2*   | 1      | 31.39       | 31.46  | 21,22  | 31.27  | 23     | 2                          | 15                         | 7.0                       | 2.0                     | 0.4                     | 63              | 35  | 7   | 3  |    |    | 107         | 21     |
| 3           | 3.7          | 6.1    | 31     | 1.5    | 1      | 31.23       | 31.36  | 1      | 31.08  | 30     | 2                          | 21                         | 6.5                       | 1.8                     | 0.3                     | 74              | 24  | 11  | 4  | 2  |    | 111         | 14     |
| 4           | 7.0          | 9.8    | 30     | 4.7    | 3      | 30.95       | 31.08  | 3      | 30.82  | 24     | 3                          | 18                         | 5.6                       | 1.4                     | 0.2                     | 80              | 20  | 6   | 4  |    |    | 110         | 14     |
| 5           | 11.0         | 14.2   | 29     | 8.5    | 2      | 31.00       | 31.15  | 30,31  | 30.48  | 6      | 2                          | 20                         | 5.3                       | 2.4                     | 0.3                     | 84              | 35  | 5   |    |    |    | 121         | 43     |
| 6           | 15.0         | 17.3   | 29     | 12.9   | 1      | 31.13       | 31.29  | 17,18  | 30.84  | 7      | 0                          | 25                         | 5.0                       | -                       | -                       | 65              | 16  | 5   | 1  | 1  | 1  | 89          | 72     |
| 7           | 19.2         | 21.5*  | 17     | 15.8   | 1      | 30.95       | 31.11  | 9      | 30.66  | 13     | 0                          | 27                         | 4.8                       | 5.0                     | 0.8                     | 75              | 23  | 5   |    |    |    | 103         | 86     |
| 8           | 22.9         | 26.0   | 13     | 19.7   | 4      | 30.63       | 30.86  | 4      | 27.68* | 2      | 12                         | 16                         | 4.2                       | 5.1                     | 0.9                     | 89              | 16  | 4   |    | 1  | 2  | 112         | 79     |
| 9           | 22.4         | 24.2   | 5      | 20.1   | 30     | 30.94       | 31.06  | 10     | 30.48  | 21     | 18                         | 9                          | 5.5                       | 2.9                     | 0.5                     | 68              | 32  | 20  |    |    |    | 120         | 32     |
| 10          | 18.5         | 21.1   | 1      | 15.3   | 31     | 31.00       | 31.17  | 20,27  | 30.41  | 3      | 11                         | 12                         | 5.9                       | 3.2                     | 0.5                     | 78              | 24  | 12  | 7  | 3  |    | 124         | 35     |
| 11          | 12.8         | 17.9   | 4      | 7.2    | 29     | 31.27       | 31.36  | 12     | 31.20  | 2      | 6                          | 15                         | 7.1                       | 2.6                     | 0.4                     | 62              | 36  | 12  | 3  | 5  |    | 118         | 32     |
| 12          | 7.3          | 9.3    | 3      | 4.3    | 31     | 31.14       | 31.22  | 4      | 31.06  | 21     | 8                          | 13                         | 5.3                       | 1.7                     | 0.3                     | 96              | 21  | 6   | 1  |    |    | 119         | 20     |
| 年平均<br>成年合计 | 12.1         |        |        |        |        | 31.10       |        |        |        |        | 69                         | 207                        | 5.7                       | 2.7                     | 0.5                     | 903             | 313 | 109 | 29 | 14 | 3  | 1356        | 477    |

| 月<br><br>份 | 波高(级)出现回数 |     |     |     |     |      | 最 大 值 统 计 |     |     |     |       |       |     |      |       |      | 最多风向 |         | 最多风浪向  |        | 最多涌浪向 |        |     |    |    |
|------------|-----------|-----|-----|-----|-----|------|-----------|-----|-----|-----|-------|-------|-----|------|-------|------|------|---------|--------|--------|-------|--------|-----|----|----|
|            | 0.0       | 0.8 | 1.3 | 2.0 | 3.5 | ≥    | 风         |     | 海 况 |     | 周 期   |       | 波 高 |      | 最大波高  |      | 向    | 频<br>率  | 向      | 频<br>率 | 向     | 频<br>率 |     |    |    |
|            | 0.7       | 1.2 | 1.9 | 3.4 | 6.0 | 6.1  | 风速        | 风向  | 日期  | 级   | 日期    | 秒     | 日期  | 米    | 日期    | 米    |      |         |        |        |       |        | 日期  |    |    |
|            | (0-2)     | (3) | (4) | (5) | (6) | (≥7) |           |     |     |     |       |       |     |      |       |      |      |         |        |        |       |        |     |    |    |
| 1          | 66        | 48  | 10  |     |     |      | 18        | NNE | 10  | 6   | 10    | 7.4   | 23  | 2.5  | 29    | 0.9  | 29   | SW      | 20     | SW     | 9     | S      | 10  |    |    |
| 2          | 61        | 42  | 5   |     |     |      | 16        | NNE | 13  | 5   | 13,21 | 6.7   | 7   | 2.2  | 23    | 2.4  | 23   | SSW,NNW | 21     | SSW    | 23    | S      | 8   |    |    |
| 3          | 69        | 46  |     |     |     |      | 17        | NNW | 30  | 6   | 10,30 | 6.9   | 30  | 1.3  | 19,25 | 1.5  | 19   | SW      | 31     | SW     | 16    | S      | 6   |    |    |
| 4          | 76        | 30  | 1   |     |     |      | 15        | N   | 26  | 5   | 10,26 | (5.5) | 23  | 1.5  | 10    | 1.6  | 10   | SSW     | 17     | SSW    | 11    | SSE    | 8   |    |    |
| 5          | 76        | 48  |     |     |     |      | 12        | N   | 7   | 4   | 4     | 天     | 5.7 | 4    | 1.2   | 15   | 1.6  | 15      | SSW,SW | 27     | SW    | 15     | S   | 32 |    |
| 6          | 14        | 54  | 16  | 1   |     |      | 15        | S   | 5   | 7*  | 24    | 8.0   | 24  | 3.3  | 24    | 3.6  | 24   | SSW     | 38     | *      | *     | *      | *   |    |    |
| 7          | 13        | 79  | 9   |     |     |      | 13        | NNE | 22  | (4) | 3     | 天     | 8.9 | 27   | 2.8   | 10   | 3.2  | 10      | SSW    | 23     | SW    | 13     | S   | 49 |    |
| 8          | 39        | 46  | 21  | 6   |     |      | 17        | NNE | 17  | 7*  | 17    | 12.7* | 17  | 3.9* | 16    | 4.4* | 16   | SSW     | 15     | NE     | 7     | S      | 39  |    |    |
| 9          | 52        | 68  |     |     |     |      | 12        | NNE | 22  | 4   | 12    | 天     | 7.1 | 6    | 1.3   | 17   | 1.6  | 6       | SSW    | 20     | SSW   | 13     | SSE | 9  |    |
| 10         | 55        | 66  | 3   |     |     |      | 15        | NE  | 2   | 6   | 4,23  | 11.7  | 18  | 2.2  | 23    | 2.6  | 23   | SW      | 19     | SSW    | 16    | SSW    | 9   |    |    |
| 11         | 54        | 64  |     |     |     |      | 19*       | NNW | 10  | 6   | 3     | 天     | 7.0 | 10   | 1.3   | 3    | 天    | 1.8     | 10     | NNW    | 20    | SSW    | 12  | S  | 15 |
| 12         | 85        | 35  | 4   |     |     |      | 14        | N   | 31  | 5   | 31    | 8.7   | 20  | 2.0  | 19    | 2.3  | 19   | N       | 18     | NE     | 8     | S      | 9   |    |    |
| 年平均        |           |     |     |     |     |      |           |     |     |     |       |       |     |      |       |      |      |         | 年最多    | 频率     | 年最多   | 频率     | 年最多 | 频率 |    |
| 成年合计       | 660       | 626 | 69  | 7   |     |      |           |     |     |     |       |       |     |      |       |      |      |         | 18     | SSW    | 11    | S      | 12  | 12 |    |