

2013

# Landsliding on the south east coast of the Isle of Wight: nature, characteristics and causes

Cole, G.

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The Plymouth Student Scientist  
University of Plymouth

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## Appendices:

### Appendix A

MONTHLY CLIMATOLOGICAL SUMMARY for MAY. 2012

NAME: Newport CITY: Newport STATE: Isle of Wight  
 ELEV: 15 m LAT: 50° 43' 13" N LONG: 1° 16' 14" W

TEMPERATURE (°C), RAIN (mm), WIND SPEED (mph)

| DAY   | MEAN |      | TIME  | LOW  | TIME  | HEAT  | COOL | RAIN | AVG  |      | TIME  | DOM |
|-------|------|------|-------|------|-------|-------|------|------|------|------|-------|-----|
|       | TEMP | HIGH |       |      |       | DEG   | DEG  |      | WIND | HIGH |       | DIR |
| 1     | 12.7 | 16.8 | 15:55 | 6.8  | 00:00 | 5.6   | 0.0  | 4.2  | 2.6  | 16.0 | 13:40 | SW  |
| 2     | 10.7 | 14.1 | 14:35 | 4.3  | 3:45  | 7.6   | 0.0  | 0.4  | 3.7  | 15.0 | 14:50 | NW  |
| 3     | 9.9  | 11.2 | 0:05  | 9.1  | 23:50 | 8.4   | 0.0  | 1.0  | 2.0  | 12.0 | 11:25 | N   |
| 4     | 9.6  | 11.8 | 11:45 | 8.1  | 5:45  | 8.7   | 0.0  | 0.2  | 3.9  | 15.0 | 21:10 | N   |
| 5     | 8.1  | 10.1 | 15:50 | 5.9  | 8:45  | 10.3  | 0.0  | 1.8  | 6.3  | 19.0 | 12:05 | NNE |
| 6     | 7.3  | 10.6 | 19:45 | 3.1  | 23:55 | 11.0  | 0.0  | 1.2  | 4.4  | 18.0 | 10:10 | NE  |
| 7     | 9.3  | 15.3 | 16:50 | 2.7  | 4:20  | 9.0   | 0.0  | 3.0  | 3.6  | 23.0 | 13:55 | SSW |
| 8     | 13.4 | 17.7 | 15:35 | 10.6 | 5:40  | 4.9   | 0.0  | 1.4  | 3.0  | 16.0 | 16:10 | SSW |
| 9     | 13.3 | 15.1 | 17:35 | 11.4 | 3:25  | 5.0   | 0.0  | 6.8  | 5.9  | 28.0 | 23:15 | SSW |
| 10    | 14.2 | 15.8 | 12:25 | 12.4 | 23:55 | 4.1   | 0.0  | 7.2  | 10.0 | 33.0 | 0:05  | SSW |
| 11    | 12.4 | 16.3 | 15:15 | 9.1  | 23:55 | 5.9   | 0.0  | 0.0  | 6.9  | 22.0 | 1:35  | WSW |
| 12    | 11.2 | 16.4 | 15:40 | 6.6  | 5:35  | 7.1   | 0.0  | 0.0  | 5.1  | 17.0 | 6:55  | NNW |
| 13    | 10.7 | 16.6 | 14:45 | 2.8  | 5:50  | 7.6   | 0.0  | 0.2  | 3.9  | 18.0 | 14:25 | SW  |
| 14    | 10.1 | 12.7 | 9:45  | 7.7  | 5:25  | 8.2   | 0.0  | 1.4  | 6.3  | 21.0 | 8:35  | SW  |
| 15    | 9.2  | 14.8 | 15:45 | 5.7  | 00:00 | 9.1   | 0.0  | 0.2  | 6.9  | 24.0 | 10:35 | NW  |
| 16    | 9.4  | 15.2 | 14:00 | 2.9  | 5:25  | 8.8   | 0.0  | 0.0  | 3.7  | 19.0 | 13:25 | SW  |
| 17    | 10.3 | 15.3 | 13:55 | 5.4  | 2:55  | 8.0   | 0.0  | 0.0  | 3.4  | 21.0 | 18:25 | E   |
| 18    | 11.6 | 14.3 | 13:15 | 8.4  | 5:55  | 6.7   | 0.0  | 1.0  | 3.9  | 21.0 | 19:55 | ENE |
| 19    | 12.8 | 16.1 | 11:50 | 9.2  | 6:20  | 5.5   | 0.0  | 0.0  | 2.3  | 19.0 | 0:05  | SSW |
| 20    | 11.7 | 14.2 | 14:20 | 9.2  | 5:30  | 6.6   | 0.0  | 0.0  | 6.3  | 18.0 | 16:50 | N   |
| 21    | 13.6 | 18.9 | 15:40 | 9.8  | 6:05  | 4.7   | 0.0  | 0.0  | 5.9  | 16.0 | 9:30  | NNW |
| 22    | 18.3 | 25.3 | 15:55 | 11.4 | 5:40  | 2.4   | 2.4  | 0.0  | 4.6  | 18.0 | 15:00 | NW  |
| 23    | 19.1 | 26.3 | 14:10 | 12.2 | 5:55  | 1.7   | 2.5  | 0.0  | 3.1  | 14.0 | 17:05 | WSW |
| 24    | 19.6 | 26.6 | 15:05 | 12.8 | 5:40  | 1.4   | 2.7  | 0.0  | 1.6  | 12.0 | 15:50 | NNW |
| 25    | 20.4 | 26.6 | 14:45 | 13.7 | 5:25  | 1.2   | 3.2  | 0.0  | 3.6  | 21.0 | 16:45 | NE  |
| 26    | 20.5 | 25.4 | 15:15 | 15.7 | 6:00  | 0.6   | 2.9  | 0.0  | 5.1  | 24.0 | 13:55 | ENE |
| 27    | 18.3 | 24.8 | 16:55 | 11.4 | 5:45  | 2.0   | 2.0  | 0.0  | 1.8  | 12.0 | 10:30 | SSW |
| 28    | 18.1 | 23.7 | 12:20 | 13.8 | 4:20  | 1.7   | 1.5  | 0.0  | 3.9  | 16.0 | 14:00 | SW  |
| 29    | 18.4 | 23.9 | 14:35 | 12.7 | 5:50  | 1.8   | 1.8  | 0.0  | 3.1  | 13.0 | 16:00 | SW  |
| 30    | 16.7 | 23.6 | 12:50 | 13.1 | 6:10  | 2.4   | 0.7  | 0.0  | 2.7  | 15.0 | 18:50 | SSW |
| 31    | 15.7 | 19.7 | 13:25 | 12.3 | 4:55  | 2.6   | 0.1  | 0.0  | 5.3  | 24.0 | 16:25 | WSW |
| ----- |      |      |       |      |       |       |      |      |      |      |       |     |
|       | 13.4 | 26.6 | 24    | 2.7  | 7     | 170.6 | 19.8 | 30.0 | 4.3  | 33.0 | 10    | SW  |

Monthly rainfall data for isle of wight for the month of May (Isle of Wight weather, 2013a)

## Appendix B

### MONTHLY CLIMATOLOGICAL SUMMARY for JUN. 2012

NAME: Newport CITY: Newport STATE: Isle of Wight  
 ELEV: 15 m LAT: 50° 43' 13" N LONG: 1° 16' 14" W

TEMPERATURE (°C), RAIN (mm), WIND SPEED (mph)

| DAY | MEAN TEMP | HIGH | TIME  | LOW  | TIME  | HEAT DEG DAYS | COOL DEG DAYS | RAIN | AVG WIND SPEED | HIGH | TIME  | DOM DIR |
|-----|-----------|------|-------|------|-------|---------------|---------------|------|----------------|------|-------|---------|
| 1   | 17.7      | 21.2 | 12:25 | 14.0 | 00:00 | 1.3           | 0.7           | 0.0  | 1.9            | 9.0  | 15:25 | W       |
| 2   | 15.6      | 20.2 | 14:35 | 11.8 | 3:00  | 2.8           | 0.1           | 2.4  | 4.4            | 21.0 | 13:30 | E       |
| 3   | 15.2      | 18.3 | 14:30 | 13.7 | 00:00 | 3.2           | 0.0           | 1.6  | 7.7            | 26.0 | 19:20 | SW      |
| 4   | 12.2      | 14.8 | 16:10 | 8.9  | 00:00 | 6.1           | 0.0           | 0.0  | 5.1            | 23.0 | 7:05  | N       |
| 5   | 11.8      | 13.7 | 22:25 | 8.1  | 1:10  | 6.5           | 0.0           | 10.6 | 3.1            | 18.0 | 19:15 | ESE     |
| 6   | 14.1      | 16.7 | 11:50 | 12.7 | 5:15  | 4.2           | 0.0           | 1.4  | 7.4            | 24.0 | 13:05 | SW      |
| 7   | 14.3      | 16.4 | 16:15 | 13.5 | 2:10  | 4.0           | 0.0           | 12.8 | 8.1            | 38.0 | 18:30 | SSW     |
| 8   | 14.2      | 16.9 | 13:35 | 12.5 | 22:30 | 4.2           | 0.0           | 1.0  | 14.9           | 39.0 | 9:00  | SW      |
| 9   | 14.0      | 17.7 | 14:20 | 11.1 | 5:00  | 4.3           | 0.0           | 0.0  | 8.6            | 26.0 | 13:20 | WSW     |
| 10  | 12.5      | 14.3 | 12:45 | 9.8  | 4:35  | 5.8           | 0.0           | 1.0  | 3.5            | 17.0 | 15:00 | ENE     |
| 11  | 12.2      | 12.9 | 11:50 | 11.1 | 23:15 | 6.2           | 0.0           | 5.6  | 8.1            | 22.0 | 16:00 | NW      |
| 12  | 12.0      | 14.2 | 17:10 | 10.4 | 9:55  | 6.3           | 0.0           | 12.4 | 5.2            | 17.0 | 7:45  | NNW     |
| 13  | 13.0      | 16.8 | 16:20 | 8.9  | 23:55 | 5.3           | 0.0           | 0.2  | 1.4            | 13.0 | 12:15 | E       |
| 14  | 13.2      | 17.3 | 13:30 | 8.8  | 3:30  | 5.1           | 0.0           | 5.8  | 3.8            | 22.0 | 23:55 | E       |
| 15  | 15.1      | 17.9 | 12:05 | 13.2 | 5:20  | 3.3           | 0.0           | 1.2  | 7.3            | 30.0 | 15:55 | SSW     |
| 16  | 14.7      | 17.7 | 14:20 | 13.1 | 2:05  | 3.6           | 0.0           | 0.2  | 12.3           | 36.0 | 9:55  | SW      |
| 17  | 14.9      | 18.6 | 14:25 | 11.3 | 00:00 | 3.4           | 0.0           | 2.4  | 5.9            | 20.0 | 2:00  | SW      |
| 18  | 14.3      | 18.8 | 13:55 | 10.8 | 5:50  | 4.0           | 0.0           | 5.6  | 3.7            | 21.0 | 15:15 | SW      |
| 19  | 14.9      | 19.4 | 15:45 | 9.3  | 5:35  | 3.5           | 0.1           | 0.0  | 1.4            | 12.0 | 13:35 | SE      |
| 20  | 15.6      | 20.9 | 14:35 | 8.5  | 3:45  | 3.2           | 0.5           | 0.0  | 2.7            | 20.0 | 23:50 | E       |
| 21  | 14.3      | 16.1 | 0:05  | 11.4 | 21:10 | 4.0           | 0.0           | 16.8 | 6.0            | 32.0 | 19:55 | SW      |
| 22  | 14.8      | 17.3 | 12:30 | 12.4 | 0:05  | 3.4           | 0.0           | 0.0  | 12.4           | 35.0 | 11:30 | SW      |
| 23  | 14.8      | 17.6 | 14:50 | 12.3 | 3:15  | 3.5           | 0.0           | 0.4  | 7.7            | 25.0 | 11:55 | SW      |
| 24  | 15.6      | 19.1 | 15:40 | 12.9 | 1:35  | 2.8           | 0.0           | 11.8 | 8.1            | 25.0 | 5:25  | SW      |
| 25  | 15.4      | 19.8 | 12:55 | 10.4 | 4:25  | 3.0           | 0.2           | 0.0  | 3.6            | 15.0 | 14:20 | SW      |
| 26  | 15.9      | 19.3 | 13:45 | 13.4 | 4:05  | 2.4           | 0.0           | 0.0  | 2.6            | 13.0 | 17:10 | SSW     |
| 27  | 16.8      | 19.3 | 18:50 | 14.2 | 5:25  | 1.6           | 0.1           | 0.2  | 3.1            | 14.0 | 10:50 | SW      |
| 28  | 18.2      | 24.8 | 11:30 | 14.8 | 23:40 | 1.2           | 1.1           | 0.2  | 5.0            | 22.0 | 17:15 | SW      |
| 29  | 16.2      | 19.1 | 14:10 | 14.2 | 2:05  | 2.2           | 0.0           | 1.2  | 8.2            | 32.0 | 8:55  | SSW     |
| 30  | 15.8      | 18.2 | 15:40 | 13.8 | 00:00 | 2.5           | 0.0           | 1.8  | 8.3            | 24.0 | 15:50 | SW      |

14.6 24.8 28 8.1 5 112.7 2.8 96.5 6.1 39.0 8 SW

Monthly rainfall data for Isle of Wight for the month of June (Isle of Wight weather, 2013b)