

Izidor Hafner

# Maps

Latitude and Longitude

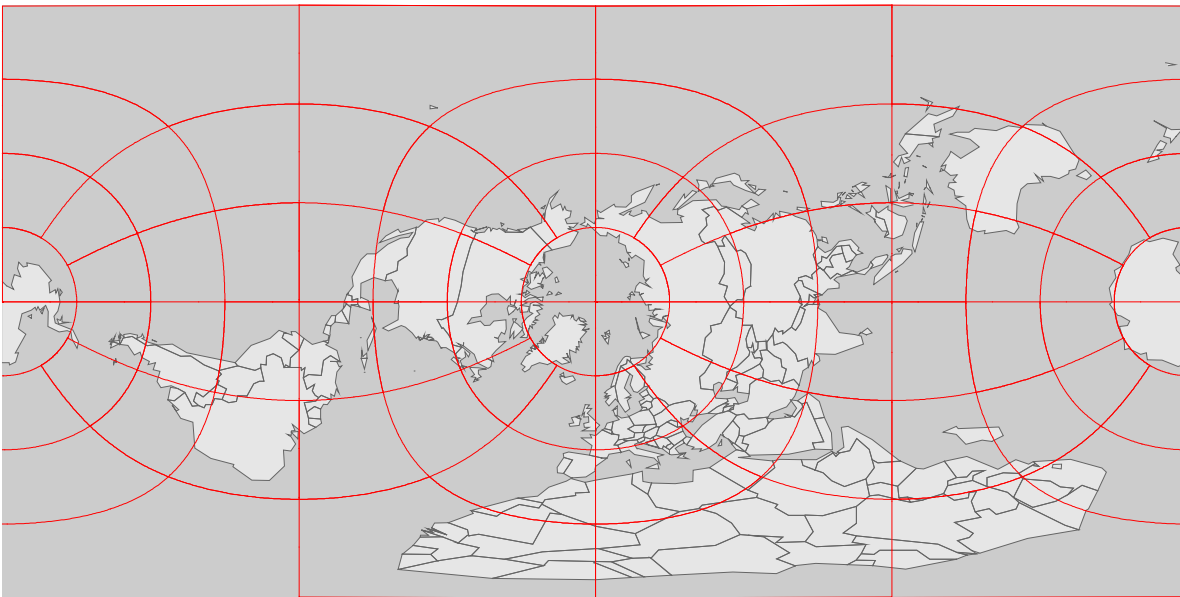
# Problems

1.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 15 N     | 39 E      |
| 2.  | 17 N     | 63 W      |
| 3.  | 15 N     | 90 W      |
| 4.  | 9 S      | 13 E      |
| 5.  | 18 N     | 16 W      |
| 6.  | 12 N     | 2 W       |
| 7.  | 36 N     | 15 E      |
| 8.  | 40 N     | 45 E      |
| 9.  | 47 N     | 9 E       |
| 10. | 26 N     | 80 W      |

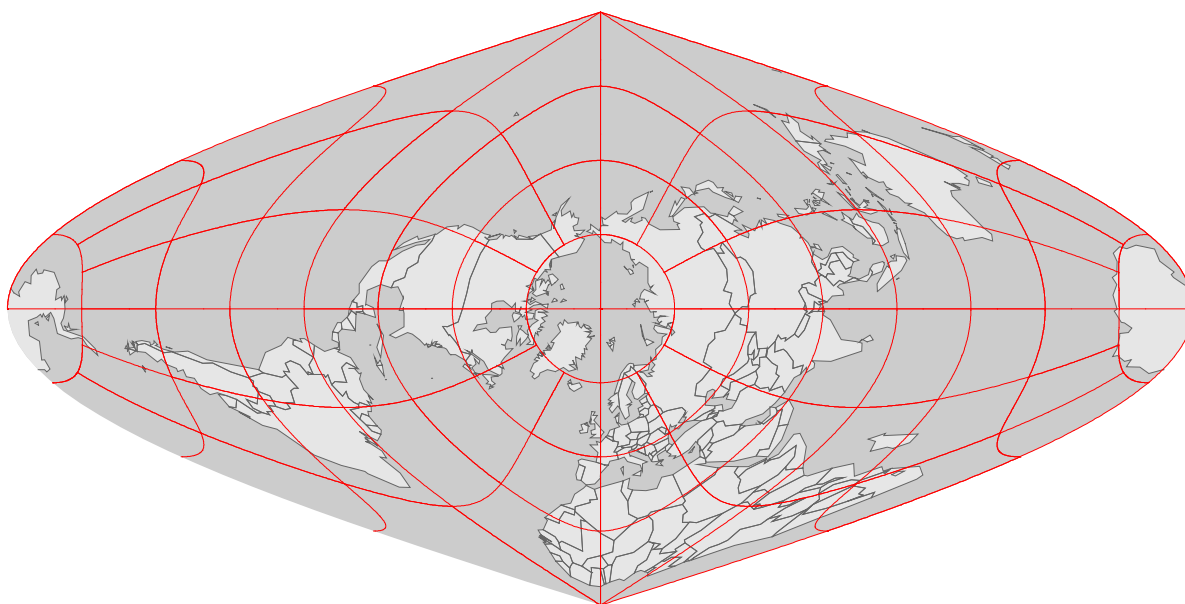


2.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 6 N      | 0 W       |
| 2.  | 17 N     | 88 W      |
| 3.  | 6 N      | 3 E       |
| 4.  | 39 N     | 9 W       |
| 5.  | 19 N     | 99 W      |
| 6.  | 54 N     | 28 E      |
| 7.  | 21 S     | 174 W     |
| 8.  | 60 N     | 11 E      |
| 9.  | 42 N     | 45 E      |
| 10. | 41 S     | 175 E     |



3.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 36 N     | 5 W       |
| 2.  | 52 N     | 3 W       |
| 3.  | 3 N      | 102 E     |
| 4.  | 15 S     | 28 E      |
| 5.  | 29 N     | 77 E      |
| 6.  | 39 N     | 29 W      |
| 7.  | 33 N     | 13 E      |
| 8.  | 12 N     | 69 W      |
| 9.  | 4 N      | 12 E      |
| 10. | 38 N     | 122 W     |

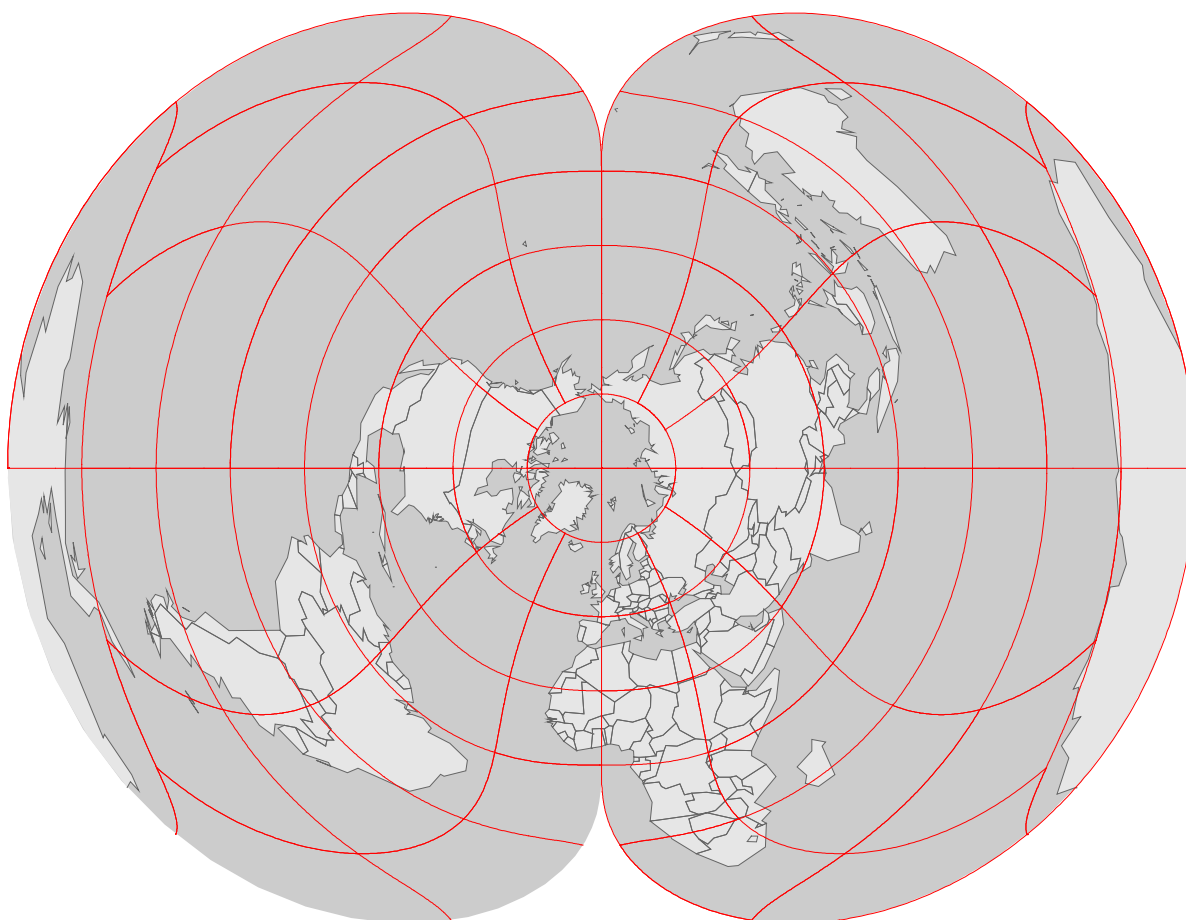


4.

## Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 17 N     | 88 W      |
| 2.  | 13 N     | 60 W      |
| 3.  | 10 N     | 67 W      |
| 4.  | 14 N     | 61 W      |
| 5.  | 21 N     | 106 E     |
| 6.  | 9 S      | 160 E     |
| 7.  | 28 N     | 15 W      |
| 8.  | 40 N     | 4 W       |
| 9.  | 59 N     | 18 E      |
| 10. | 55 N     | 25 E      |

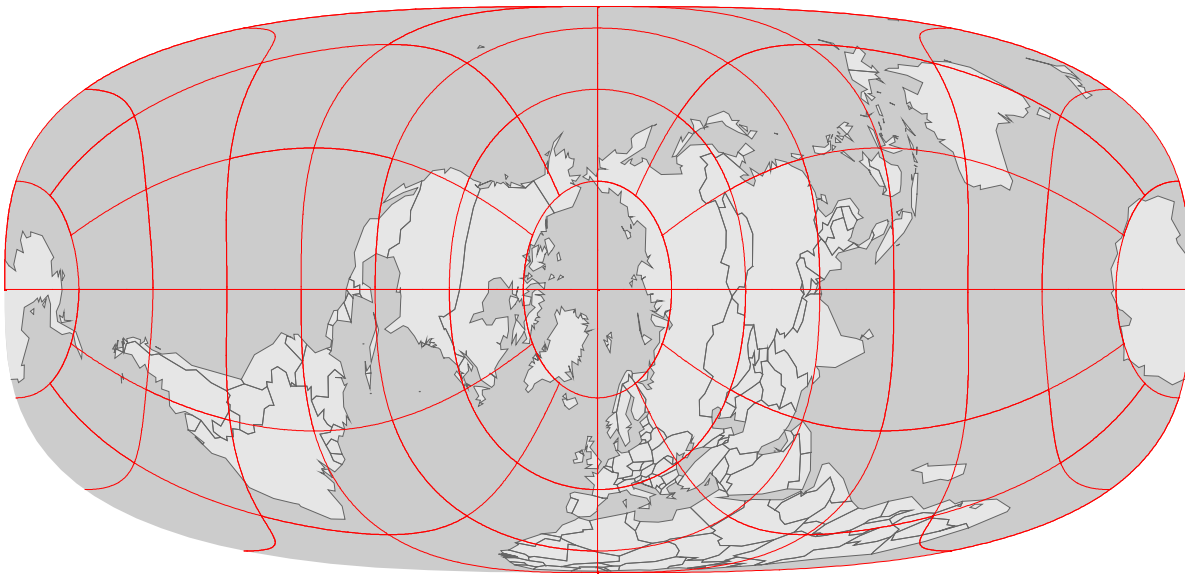


5.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 43 N     | 77 E      |
| 2.  | 14 S     | 172 W     |
| 3.  | 38 N     | 58 E      |
| 4.  | 4 S      | 15 E      |
| 5.  | 50 N     | 30 E      |
| 6.  | 12 S     | 44 W      |
| 7.  | 12 N     | 15 E      |
| 8.  | 13 N     | 2 E       |
| 9.  | 12 N     | 105 E     |
| 10. | 26 S     | 28 E      |

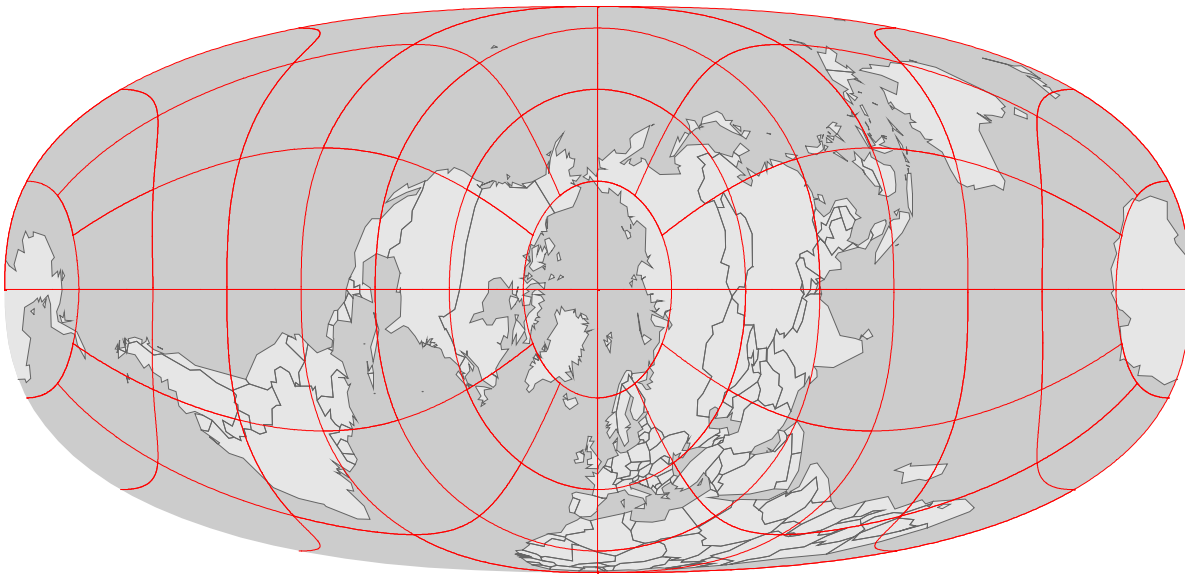


6.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 43 N     | 2 E       |
| 2.  | 51 N     | 4 E       |
| 3.  | 35 S     | 149 E     |
| 4.  | 6 N      | 11 W      |
| 5.  | 17 N     | 62 W      |
| 6.  | 9 S      | 147 E     |
| 7.  | 23 S     | 43 W      |
| 8.  | 17 N     | 62 W      |
| 9.  | 42 N     | 71 W      |
| 10. | 37 N     | 122 W     |



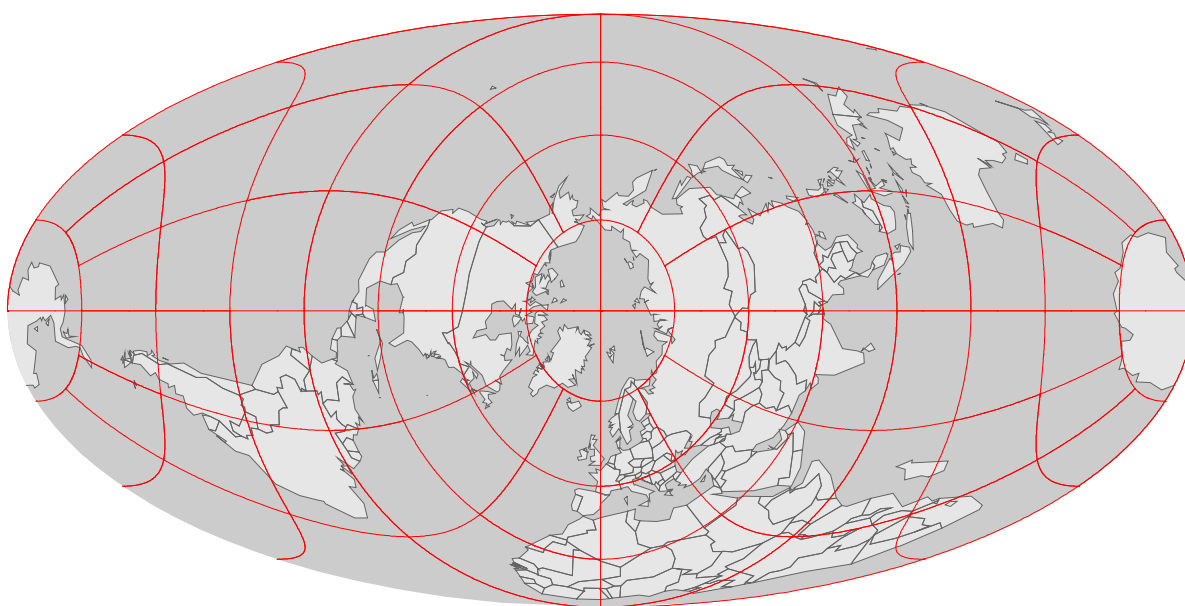


7.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 12 N     | 16 W      |
| 2.  | 9 N      | 14 W      |
| 3.  | 1 S      | 166 E     |
| 4.  | 18 S     | 31 E      |
| 5.  | 46 N     | 74 W      |
| 6.  | 6 N      | 55 W      |
| 7.  | 40 N     | 116 E     |
| 8.  | 11 N     | 62 W      |
| 9.  | 18 N     | 65 W      |
| 10. | 39 N     | 90 W      |

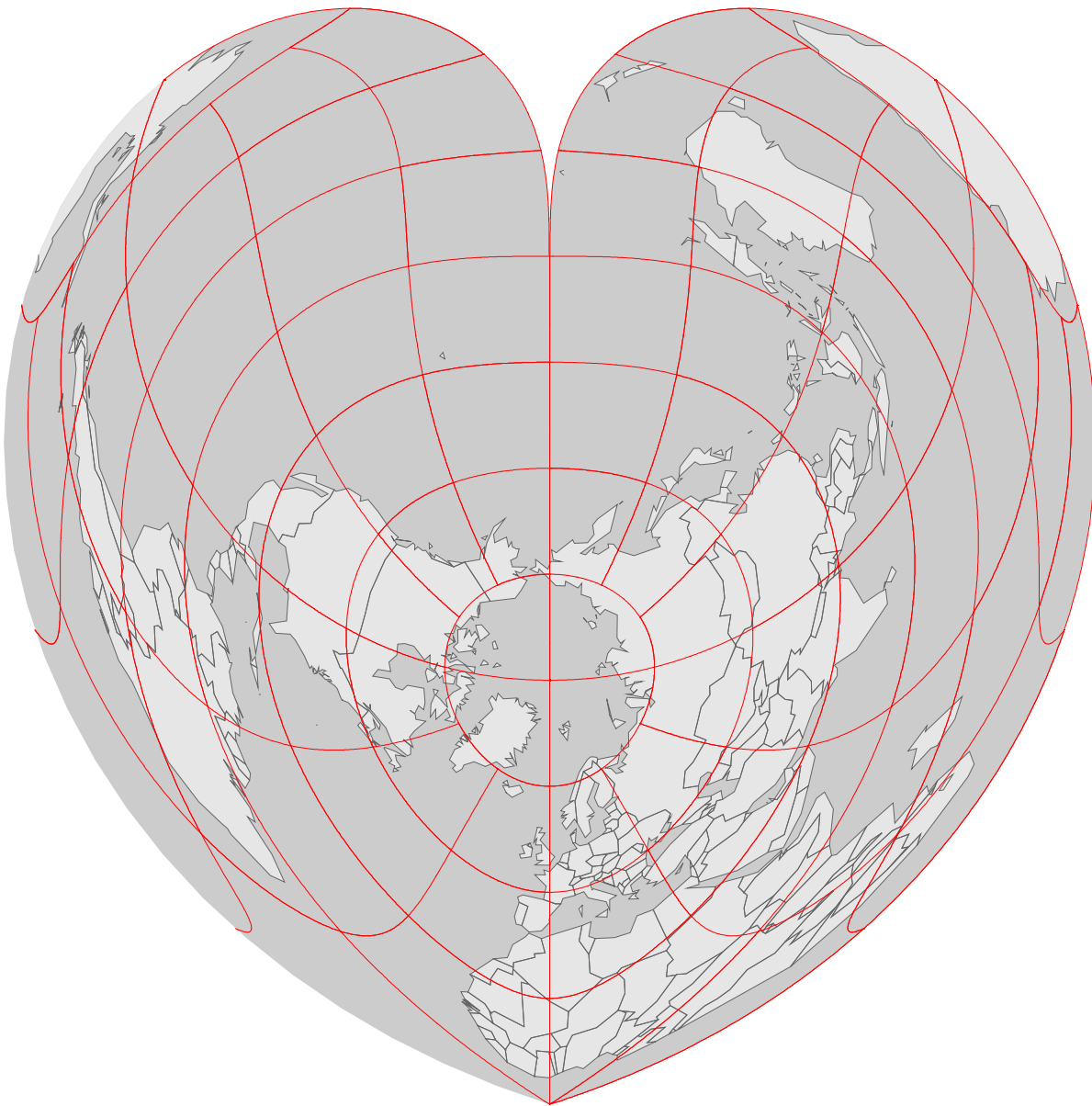


8.

## Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 19 S     | 48 E      |
| 2.  | 4 S      | 15 E      |
| 3.  | 13 N     | 60 W      |
| 4.  | 9 S      | 160 E     |
| 5.  | 6 N      | 1 E       |
| 6.  | 18 N     | 16 W      |
| 7.  | 12 N     | 105 E     |
| 8.  | 41 N     | 69 E      |
| 9.  | 48 N     | 107 E     |
| 10. | 40 N     | 75 W      |

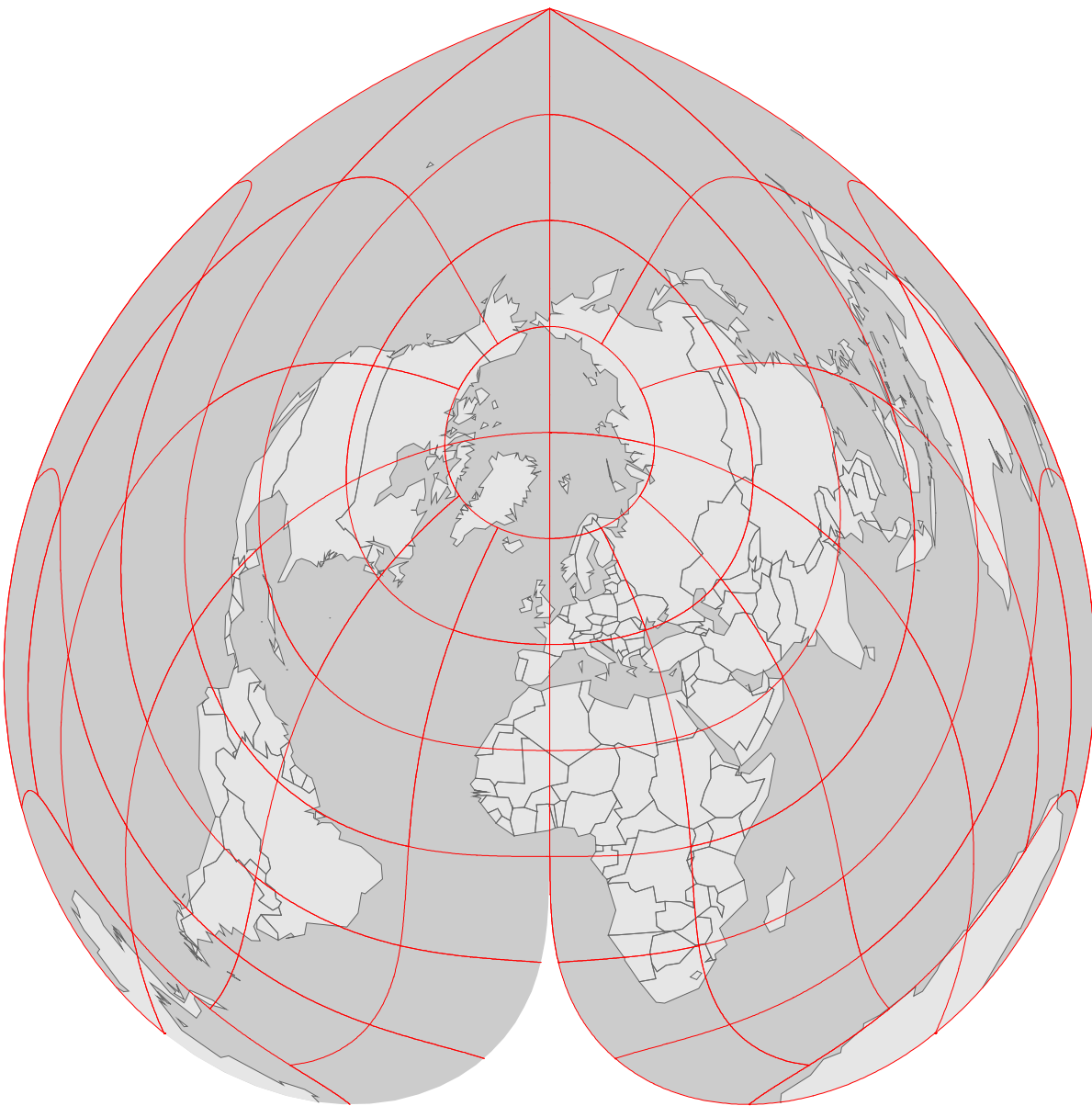


9.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 40 N     | 116 E     |
| 2.  | 48 N     | 17 E      |
| 3.  | 51 N     | 4 E       |
| 4.  | 39 N     | 65 E      |
| 5.  | 25 N     | 67 E      |
| 6.  | 28 N     | 85 E      |
| 7.  | 3 N      | 102 E     |
| 8.  | 54 N     | 28 E      |
| 9.  | 40 N     | 116 E     |
| 10. | 43 N     | 23 E      |

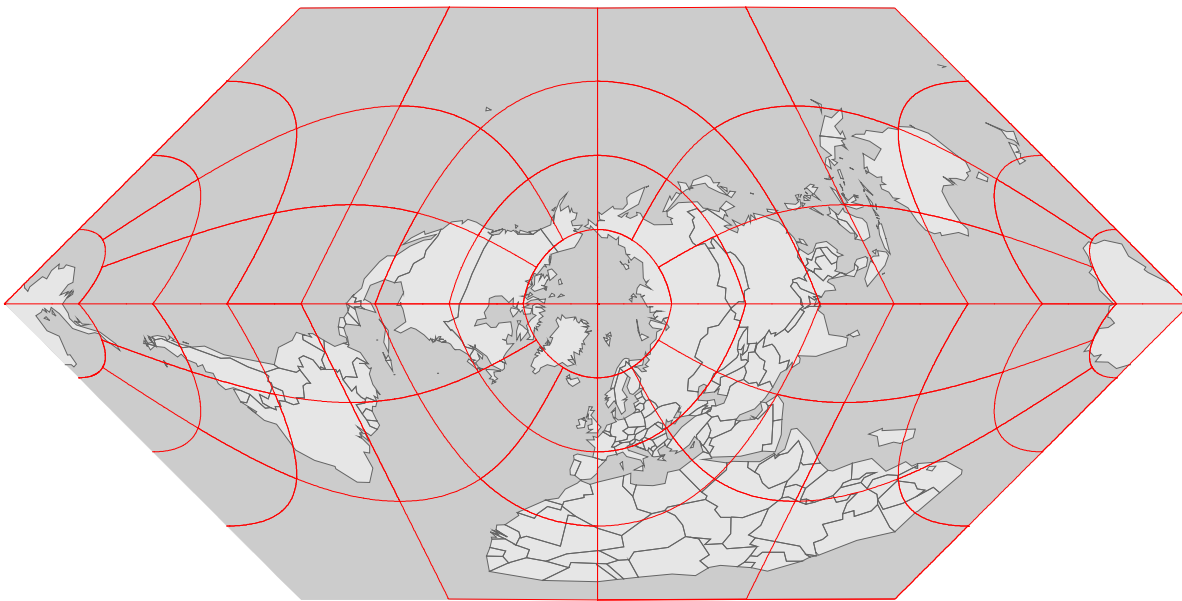


10.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 16 N     | 62 W      |
| 2.  | 7 S      | 39 E      |
| 3.  | 39 N     | 65 E      |
| 4.  | 27 N     | 13 W      |
| 5.  | 15 N     | 61 W      |
| 6.  | 4 N      | 9 E       |
| 7.  | 25 N     | 122 E     |
| 8.  | 28 N     | 90 E      |
| 9.  | 4 N      | 12 E      |
| 10. | 45 N     | 93 W      |

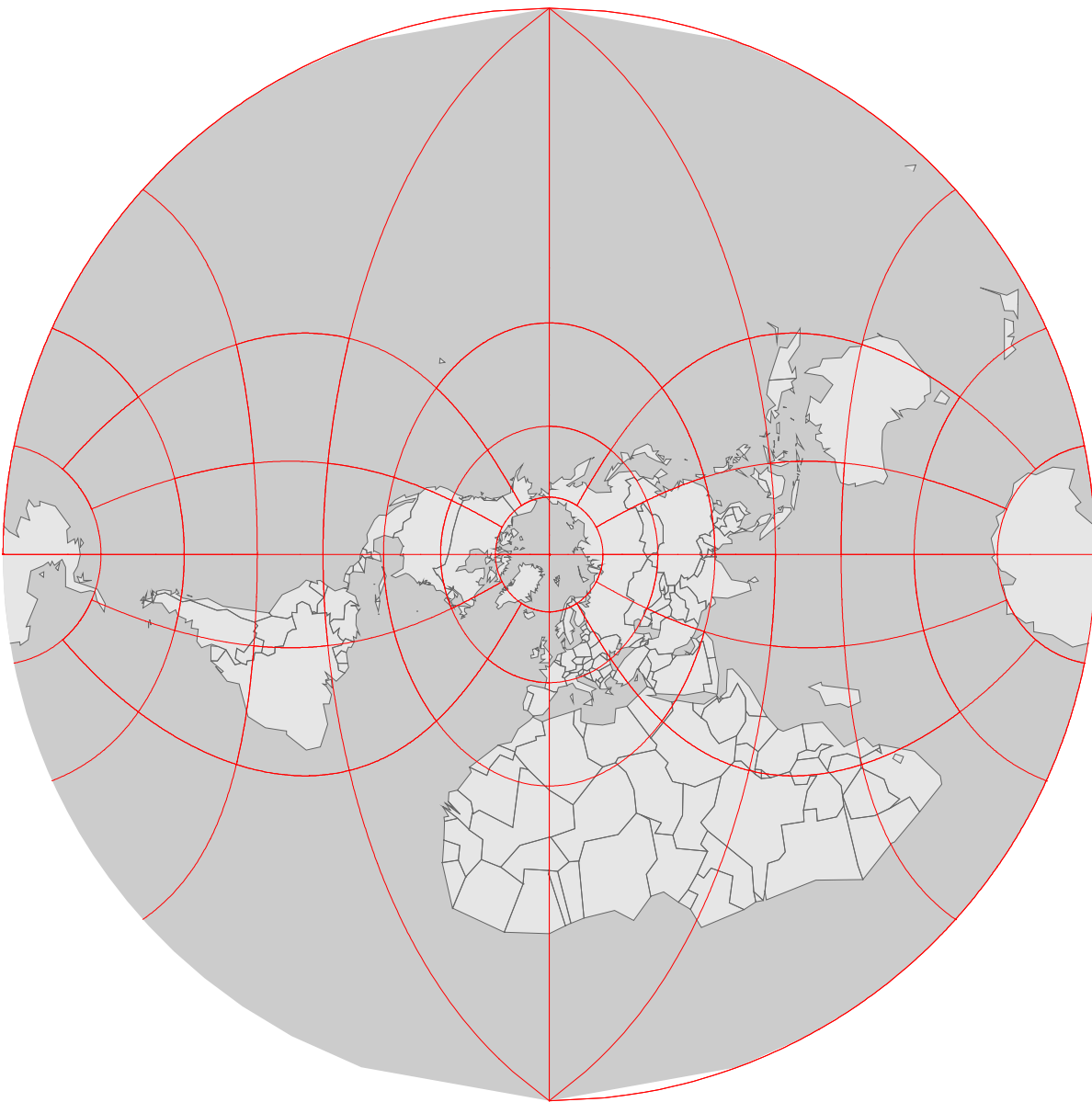


11.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 22 N     | 114 E     |
| 2.  | 16 N     | 62 W      |
| 3.  | 48 N     | 19 E      |
| 4.  | 15 N     | 17 W      |
| 5.  | 13 N     | 61 W      |
| 6.  | 12 S     | 77 W      |
| 7.  | 26 N     | 51 E      |
| 8.  | 49 N     | 2 E       |
| 9.  | 6 N      | 3 E       |
| 10. | 4 N      | 12 E      |

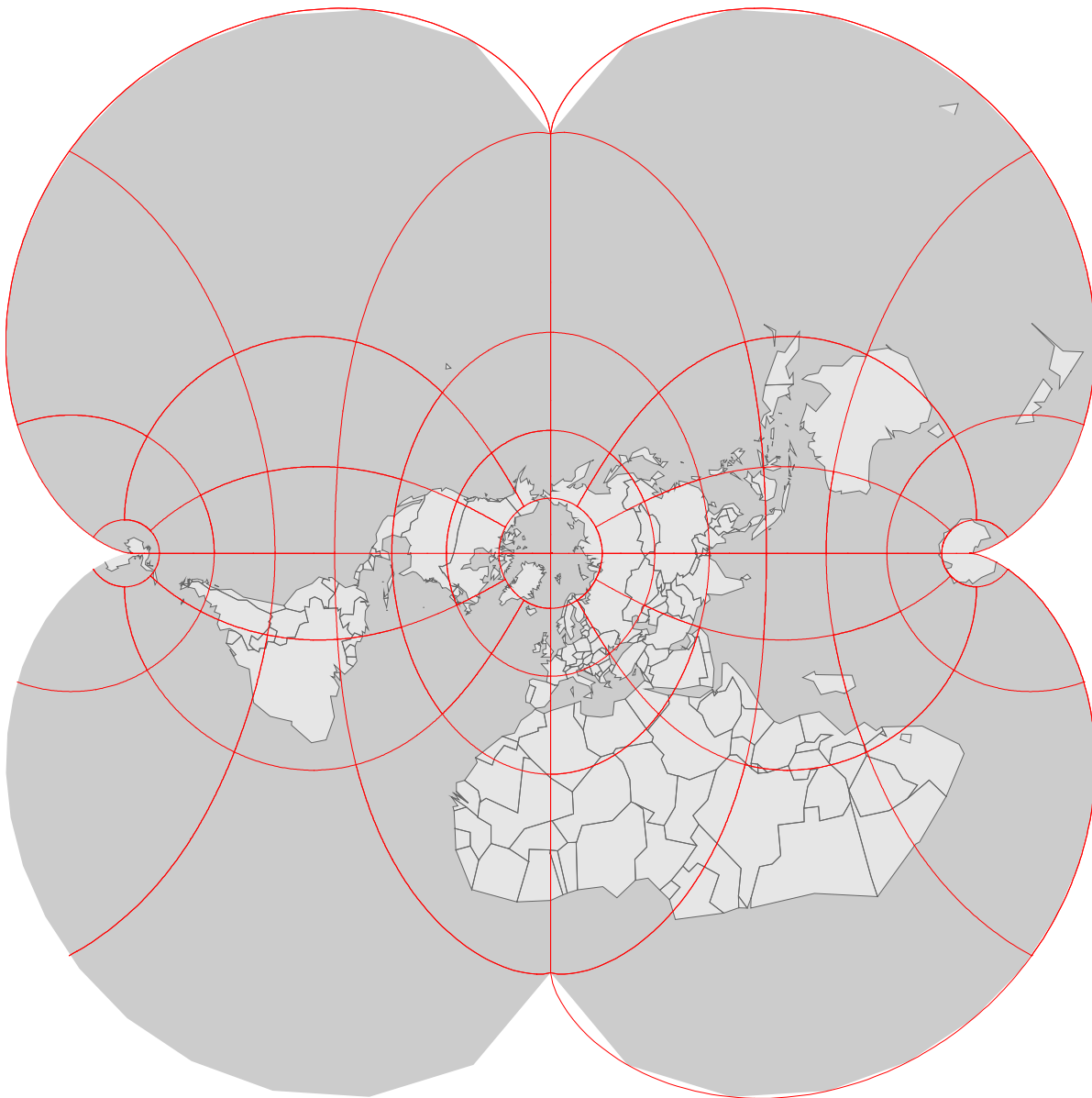


12.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 9 N      | 39 E      |
| 2.  | 23 N     | 88 E      |
| 3.  | 25 S     | 26 E      |
| 4.  | 7 N      | 58 W      |
| 5.  | 15 N     | 121 E     |
| 6.  | 23 N     | 59 E      |
| 7.  | 35 N     | 136 E     |
| 8.  | 18 N     | 103 E     |
| 9.  | 46 N     | 16 E      |
| 10. | 26 N     | 80 W      |

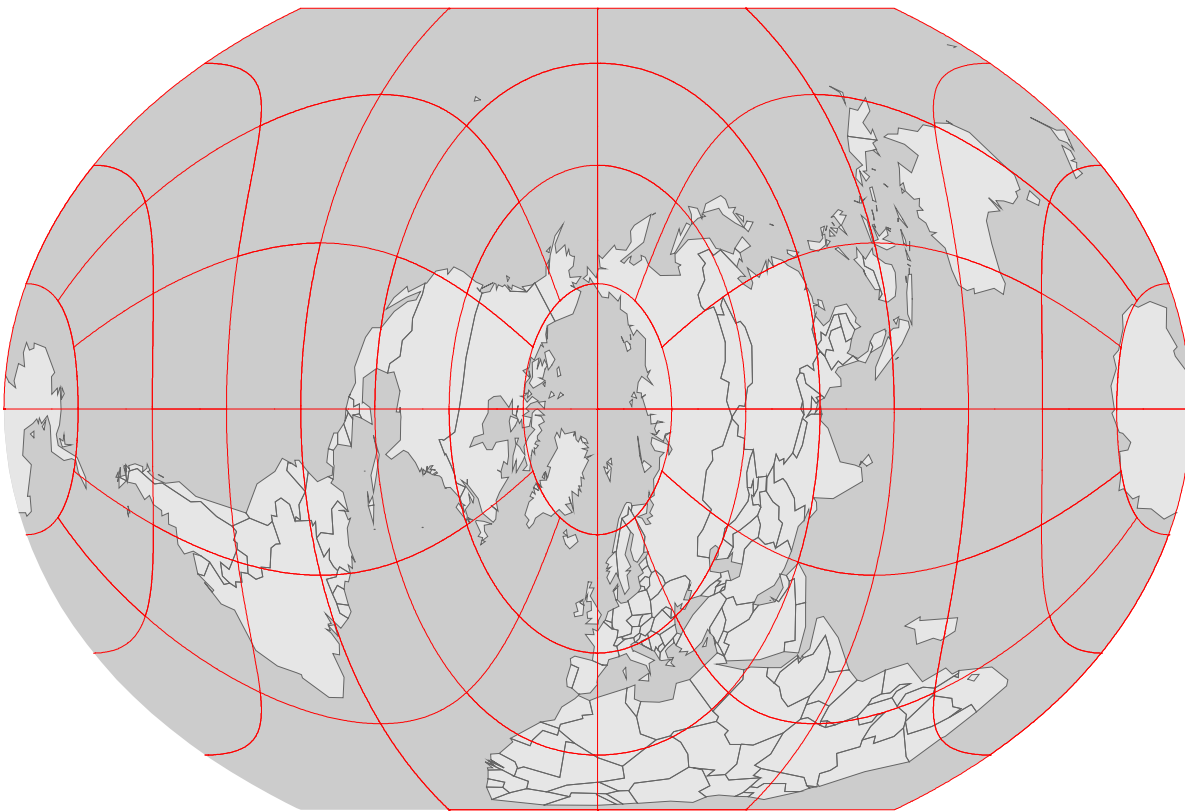


13.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 24 N     | 54 E      |
| 2.  | 14 N     | 100 E     |
| 3.  | 30 N     | 31 E      |
| 4.  | 23 N     | 88 E      |
| 5.  | 6 S      | 107 E     |
| 6.  | 29 S     | 28 E      |
| 7.  | 12 N     | 15 E      |
| 8.  | 41 N     | 69 E      |
| 9.  | 48 N     | 107 E     |
| 10. | 34 N     | 84 W      |

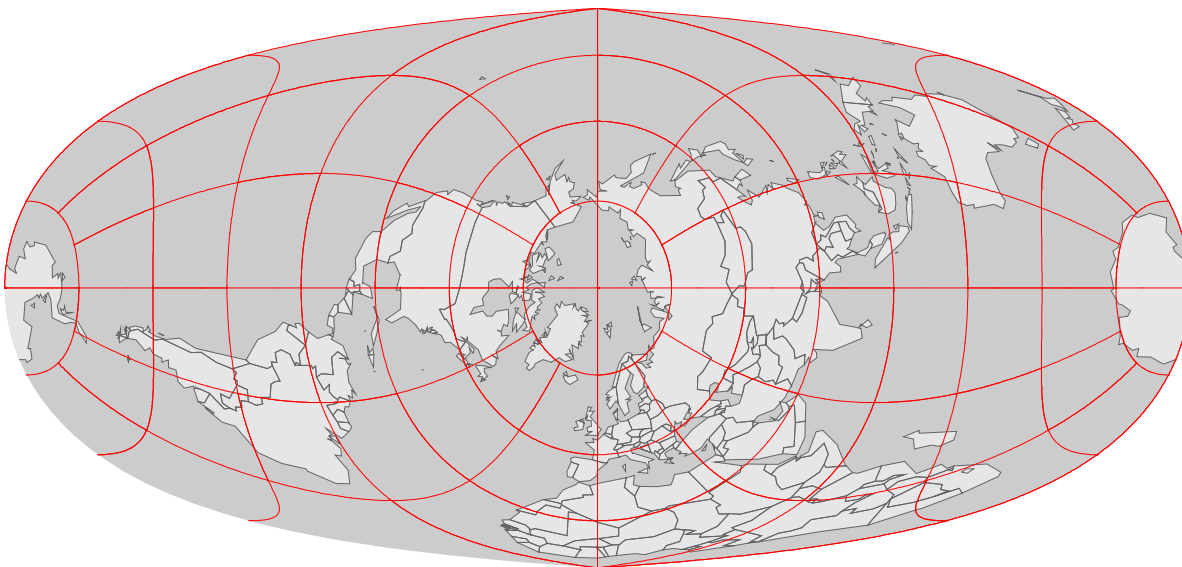


14.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 6 N      | 0 W       |
| 2.  | 51 N     | 4 E       |
| 3.  | 44 N     | 26 E      |
| 4.  | 5 N      | 52 W      |
| 5.  | 15 N     | 90 W      |
| 6.  | 9 S      | 160 E     |
| 7.  | 26 S     | 28 E      |
| 8.  | 44 N     | 18 E      |
| 9.  | 42 N     | 45 E      |
| 10. | 5 S      | 56 E      |



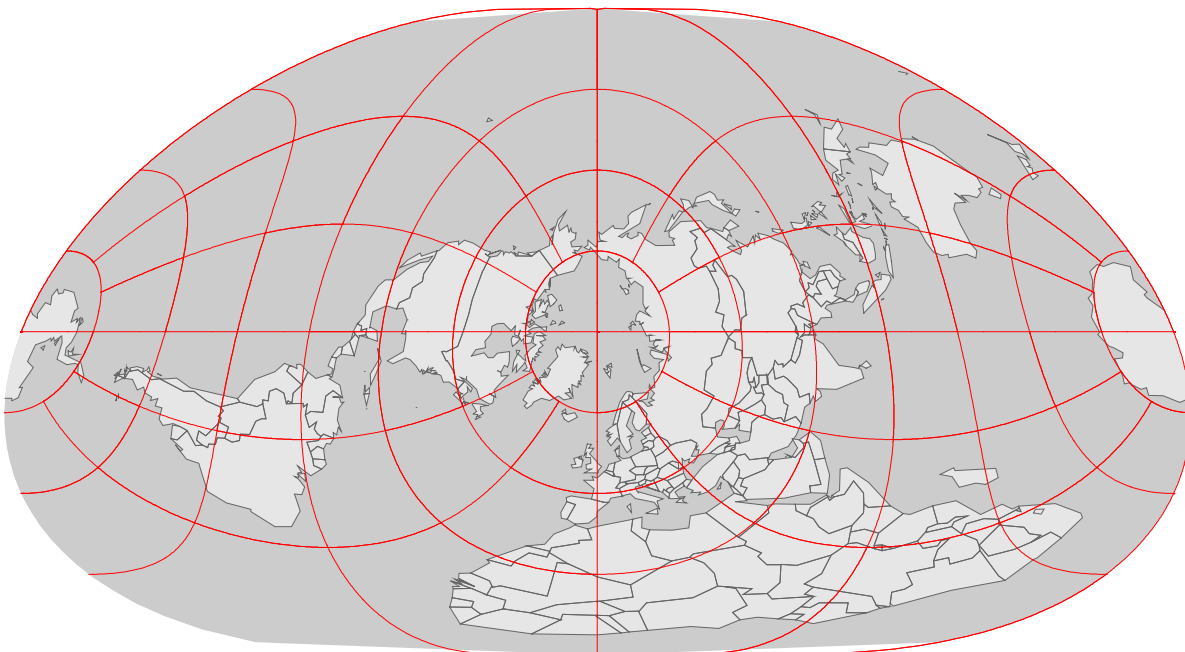


15.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 12 N     | 16 W      |
| 2.  | 52 N     | 3 W       |
| 3.  | 34 N     | 73 E      |
| 4.  | 32 N     | 35 E      |
| 5.  | 7 N      | 134 E     |
| 6.  | 29 S     | 28 E      |
| 7.  | 22 S     | 166 E     |
| 8.  | 9 N      | 75 W      |
| 9.  | 18 N     | 63 W      |
| 10. | 61 N     | 150 W     |

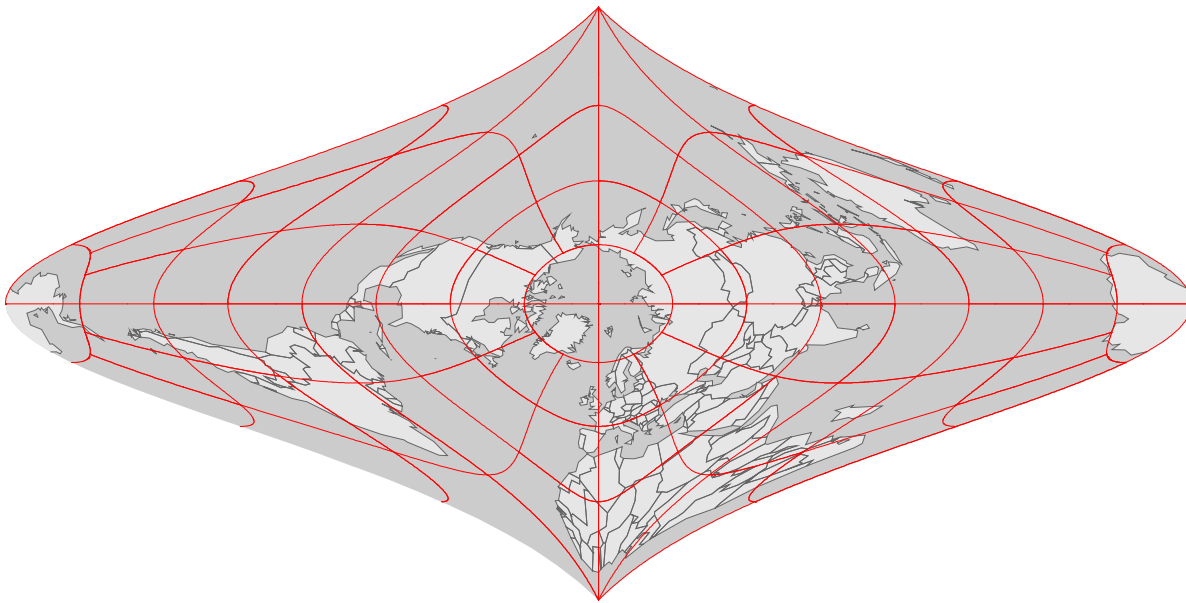


16.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 38 N     | 58 E      |
| 2.  | 38 N     | 24 E      |
| 3.  | 16 N     | 62 W      |
| 4.  | 48 N     | 17 E      |
| 5.  | 52 N     | 3 W       |
| 6.  | 64 N     | 22 W      |
| 7.  | 36 N     | 51 E      |
| 8.  | 47 N     | 9 E       |
| 9.  | 33 N     | 97 W      |
| 10. | 34 N     | 118 W     |

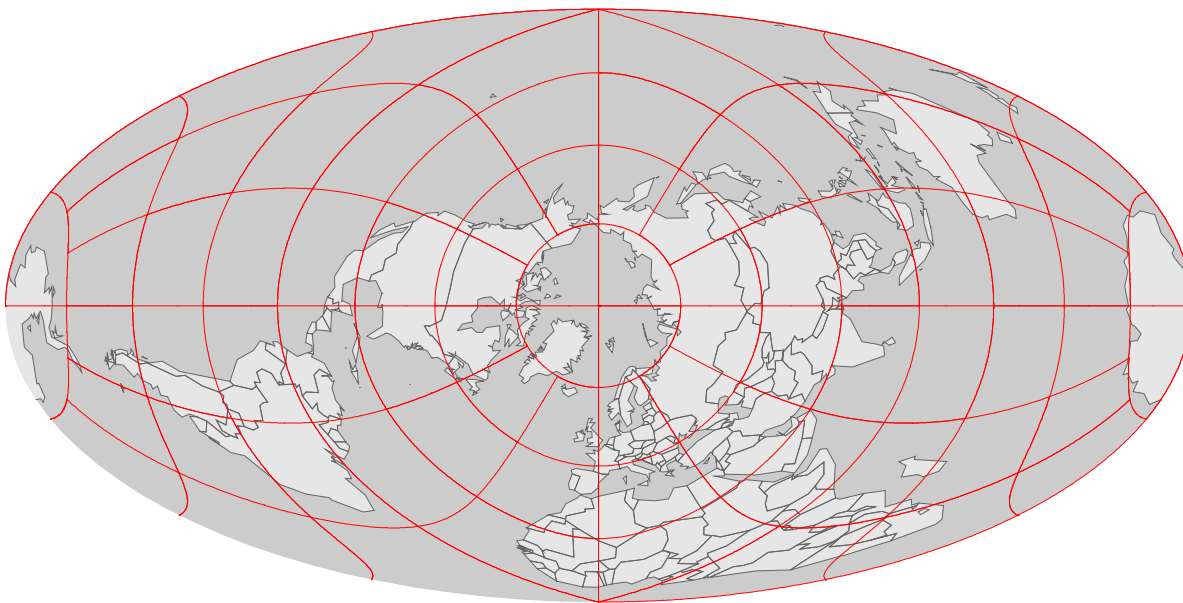


17.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 24 N     | 54 E      |
| 2.  | 13 N     | 60 W      |
| 3.  | 9 N      | 14 W      |
| 4.  | 56 N     | 13 E      |
| 5.  | 27 N     | 13 W      |
| 6.  | 8 N      | 13 W      |
| 7.  | 41 N     | 29 E      |
| 8.  | 21 S     | 56 E      |
| 9.  | 12 N     | 62 W      |
| 10. | 49 N     | 123 W     |

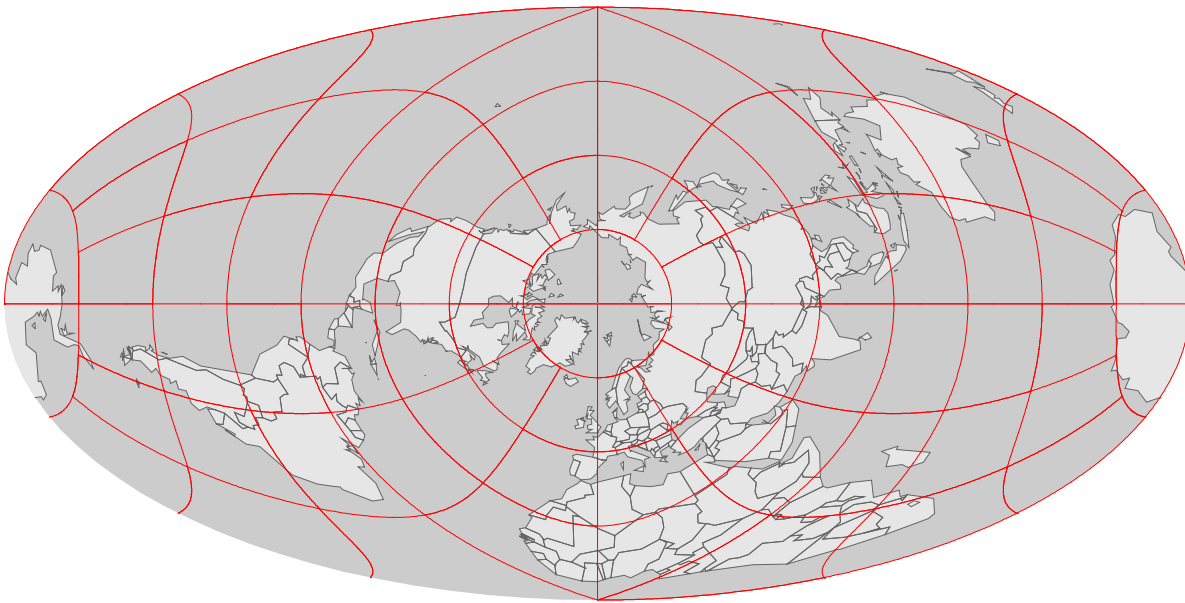


18.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 35 S     | 149 E     |
| 2.  | 53 N     | 6 W       |
| 3.  | 0 S      | 32 E      |
| 4.  | 14 S     | 171 W     |
| 5.  | 12 N     | 105 E     |
| 6.  | 11 N     | 62 W      |
| 7.  | 6 N      | 3 E       |
| 8.  | 14 N     | 89 W      |
| 9.  | 18 S     | 178 E     |
| 10. | 59 N     | 25 E      |

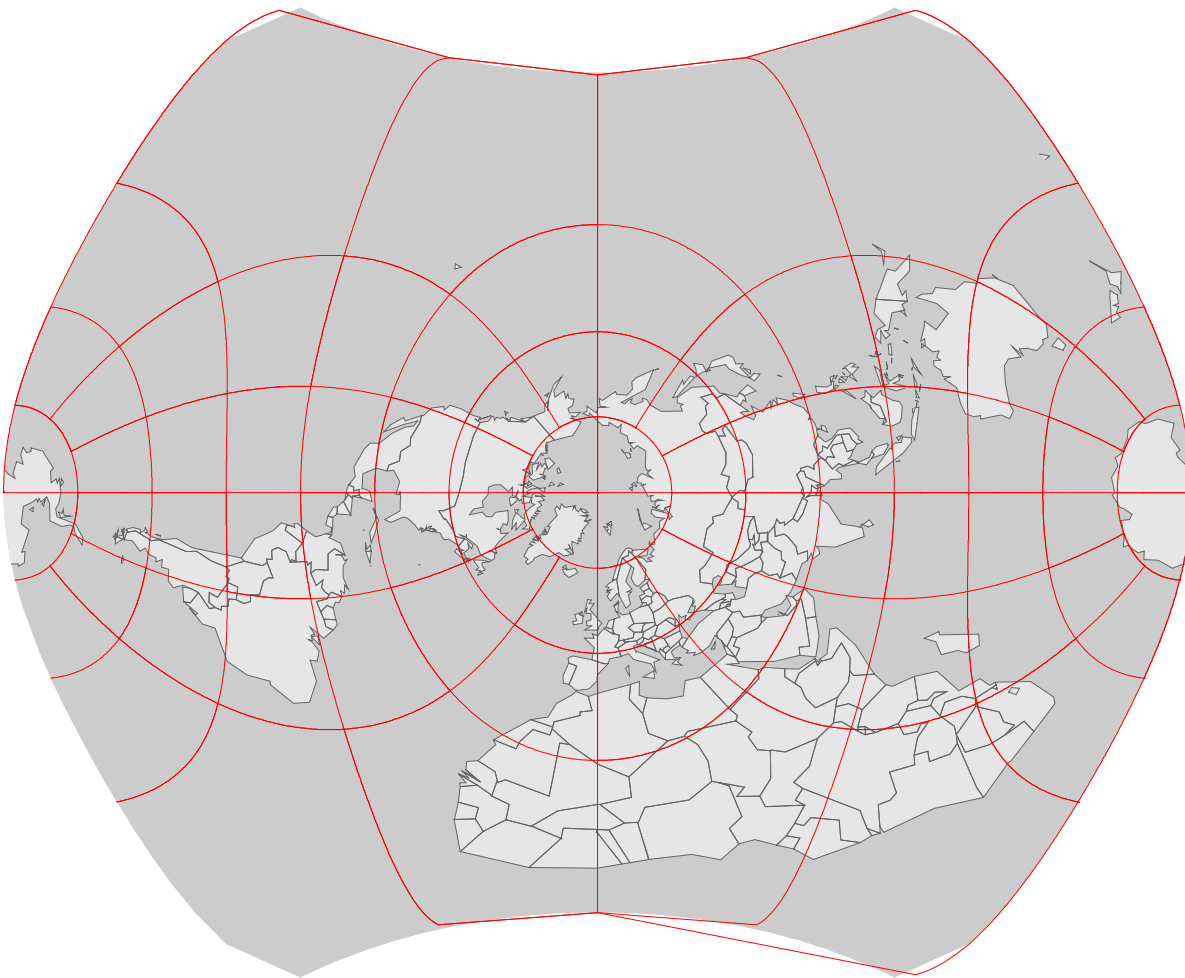


19.

## Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 52 N     | 5 E       |
| 2.  | 33 N     | 44 E      |
| 3.  | 4 S      | 15 E      |
| 4.  | 48 N     | 19 E      |
| 5.  | 27 N     | 13 W      |
| 6.  | 18 N     | 77 W      |
| 7.  | 46 N     | 15 E      |
| 8.  | 9 N      | 75 W      |
| 9.  | 48 N     | 16 E      |
| 10. | 61 N     | 150 W     |

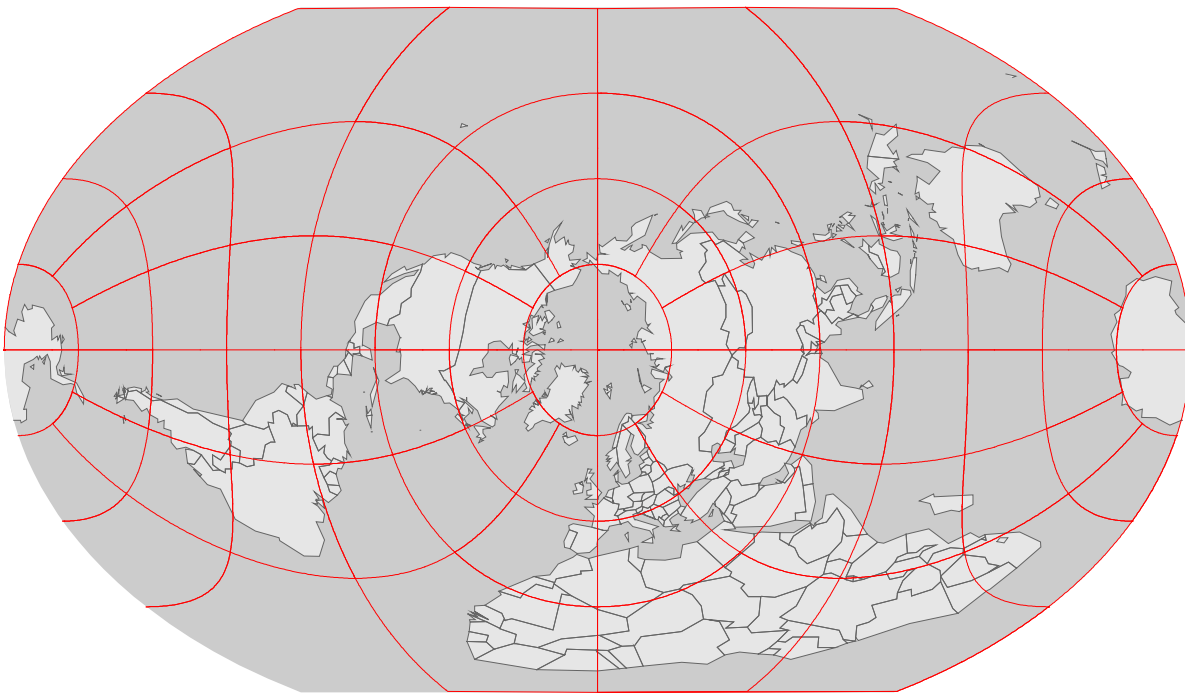


20.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 17 N     | 63 W      |
| 2.  | 12 N     | 16 W      |
| 3.  | 40 N     | 4 W       |
| 4.  | 5 N      | 73 E      |
| 5.  | 26 S     | 33 E      |
| 6.  | 54 N     | 28 E      |
| 7.  | 29 N     | 77 E      |
| 8.  | 25 N     | 47 E      |
| 9.  | 4 N      | 12 E      |
| 10. | 8 N      | 158 E     |

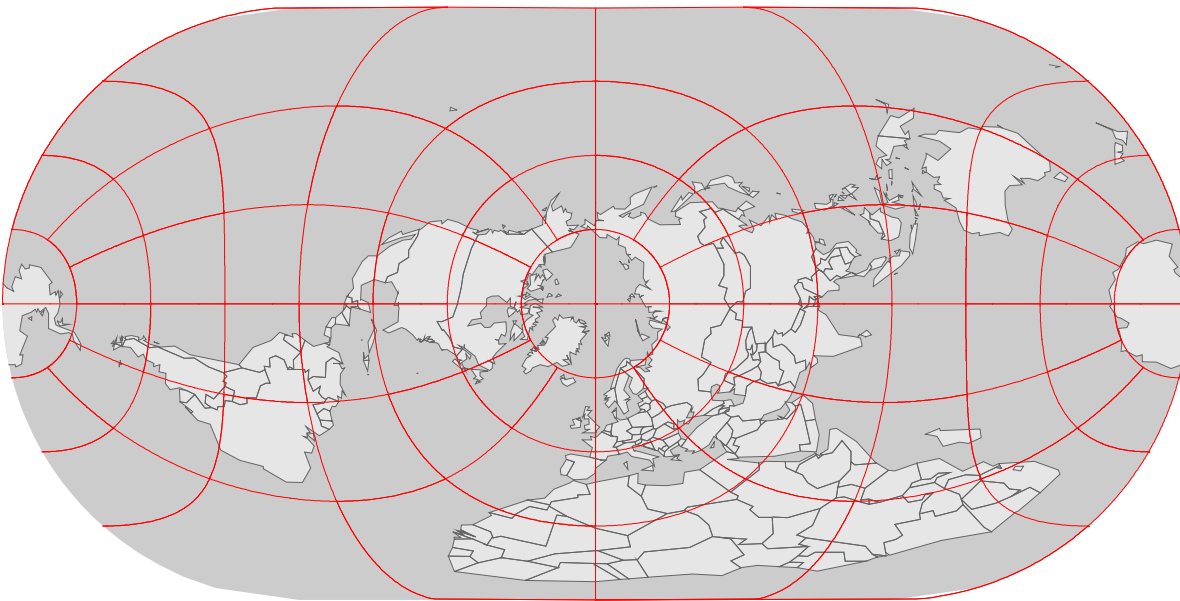


21.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 15 N     | 17 W      |
| 2.  | 1 S      | 166 E     |
| 3.  | 22 N     | 82 W      |
| 4.  | 40 N     | 4 W       |
| 5.  | 15 N     | 121 E     |
| 6.  | 19 S     | 168 E     |
| 7.  | 24 S     | 47 W      |
| 8.  | 23 S     | 17 E      |
| 9.  | 42 N     | 88 W      |
| 10. | 34 N     | 118 W     |

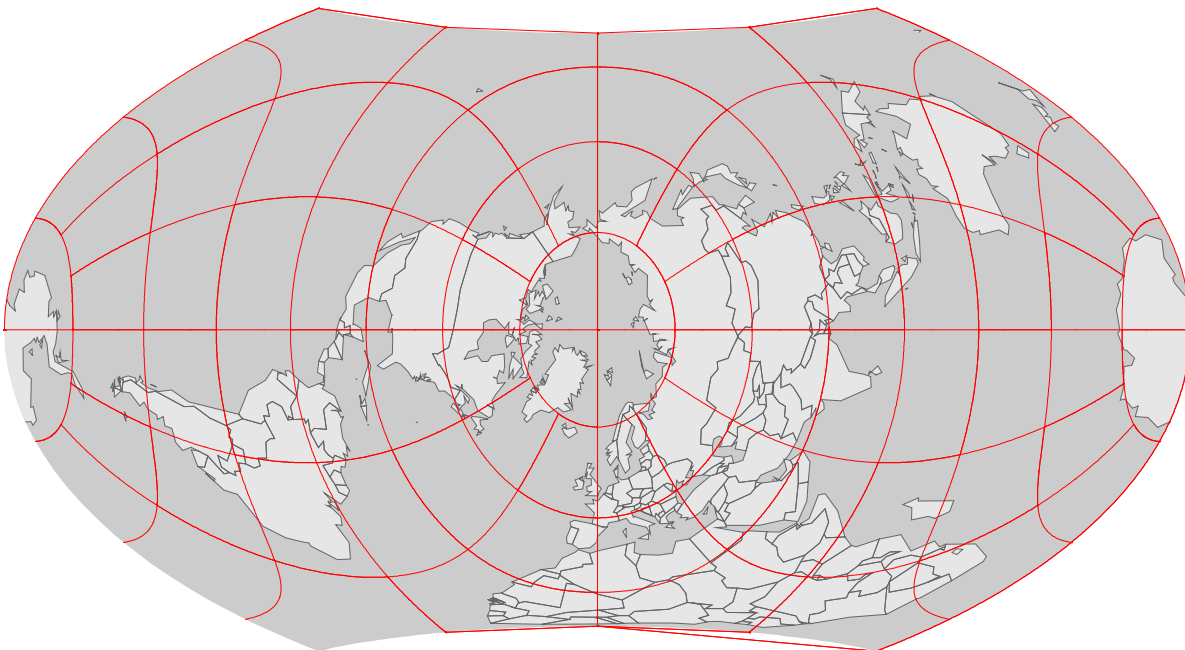


22.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 43 N     | 77 E      |
| 2.  | 4 N      | 9 E       |
| 3.  | 35 S     | 56 W      |
| 4.  | 1 S      | 37 E      |
| 5.  | 22 S     | 166 E     |
| 6.  | 45 N     | 76 W      |
| 7.  | 32 S     | 116 E     |
| 8.  | 17 N     | 25 W      |
| 9.  | 23 S     | 17 E      |
| 10. | 18 N     | 65 W      |



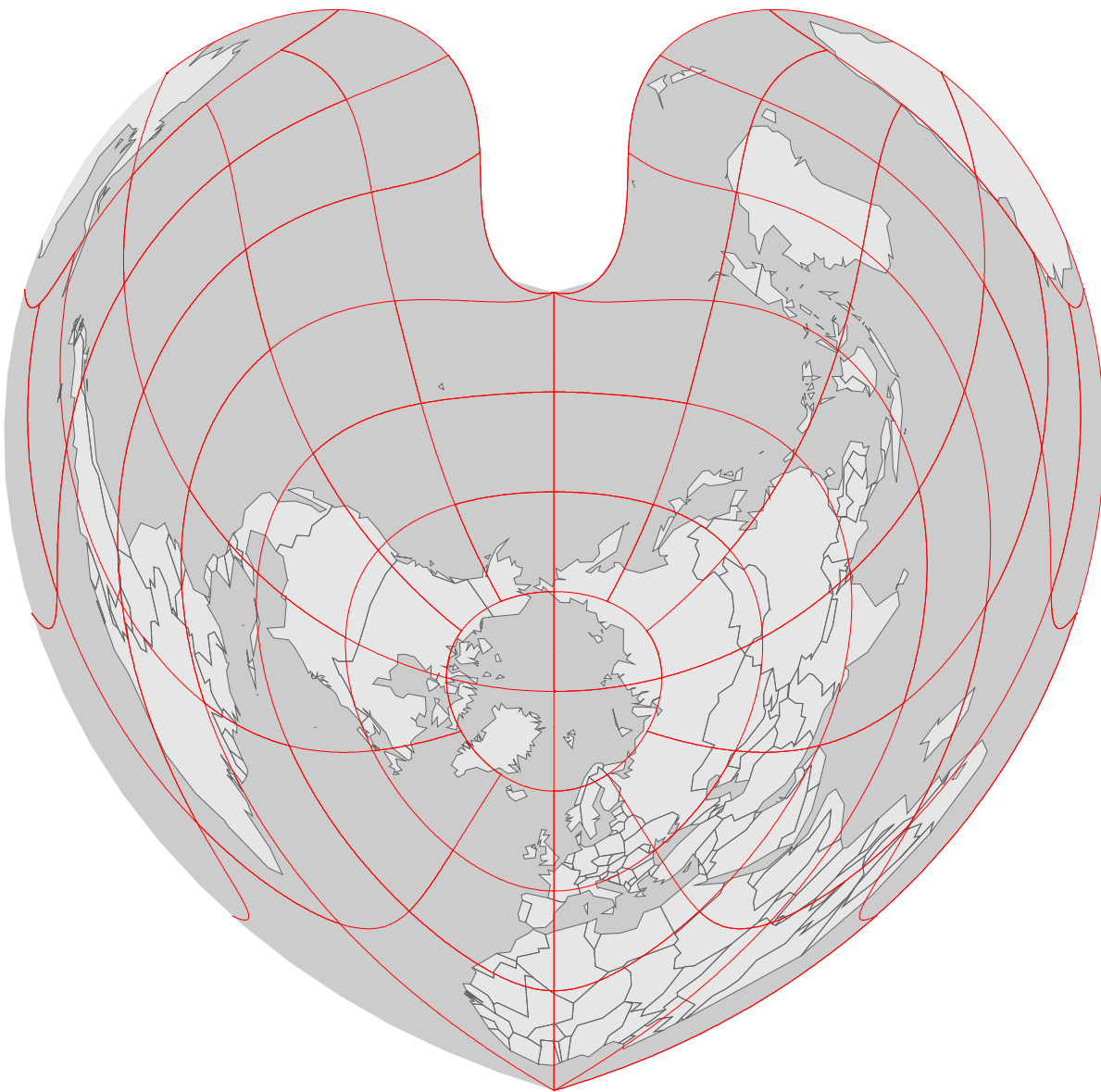


23.

## Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 13 N     | 17 W      |
| 2.  | 17 N     | 88 W      |
| 3.  | 30 N     | 31 E      |
| 4.  | 39 N     | 65 E      |
| 5.  | 19 N     | 81 W      |
| 6.  | 60 N     | 25 E      |
| 7.  | 7 N N    | 134 E     |
| 8.  | 29 N     | 77 E      |
| 9.  | 15 N     | 44 E      |
| 10. | 5 S      | 56 E      |

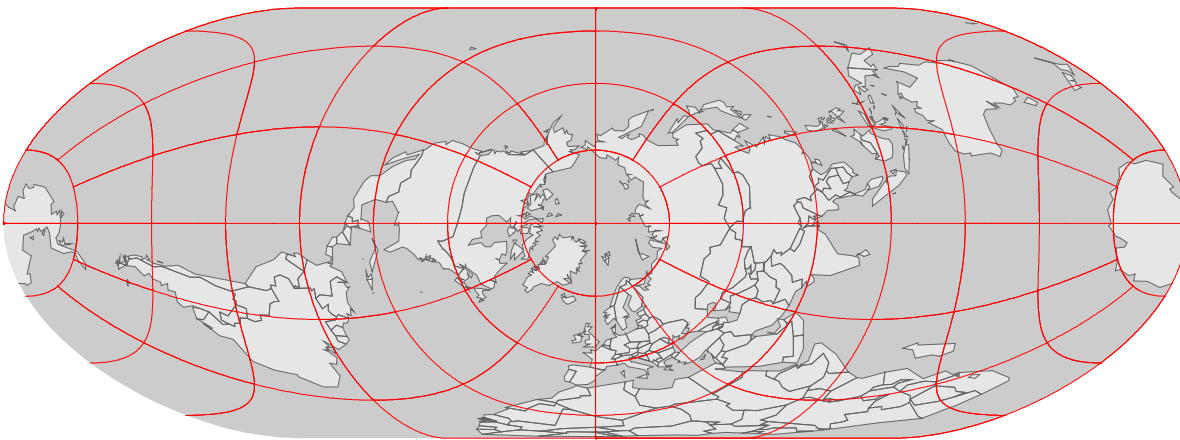


24.

## Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 33 N     | 44 E      |
| 2.  | 4 S      | 15 E      |
| 3.  | 7 N      | 134 E     |
| 4.  | 39 N     | 9 W       |
| 5.  | 29 N     | 77 E      |
| 6.  | 32 S     | 116 E     |
| 7.  | 62 N     | 7 W       |
| 8.  | 37 N     | 122 W     |
| 9.  | 33 N     | 97 W      |
| 10. | 33 N     | 117 W     |

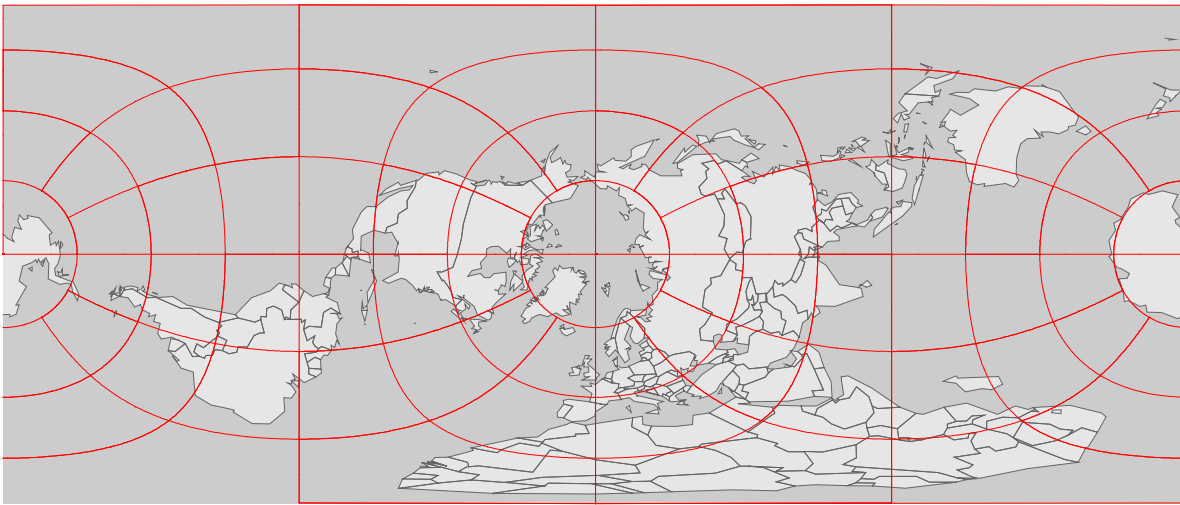


25.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 40 N     | 50 E      |
| 2.  | 4 S      | 15 E      |
| 3.  | 46 N     | 6 E       |
| 4.  | 13 N     | 61 W      |
| 5.  | 4 S      | 15 E      |
| 6.  | 40 N     | 4 W       |
| 7.  | 10 N     | 84 W      |
| 8.  | 28 N     | 90 E      |
| 9.  | 48 N     | 16 E      |
| 10. | 55 N     | 25 E      |

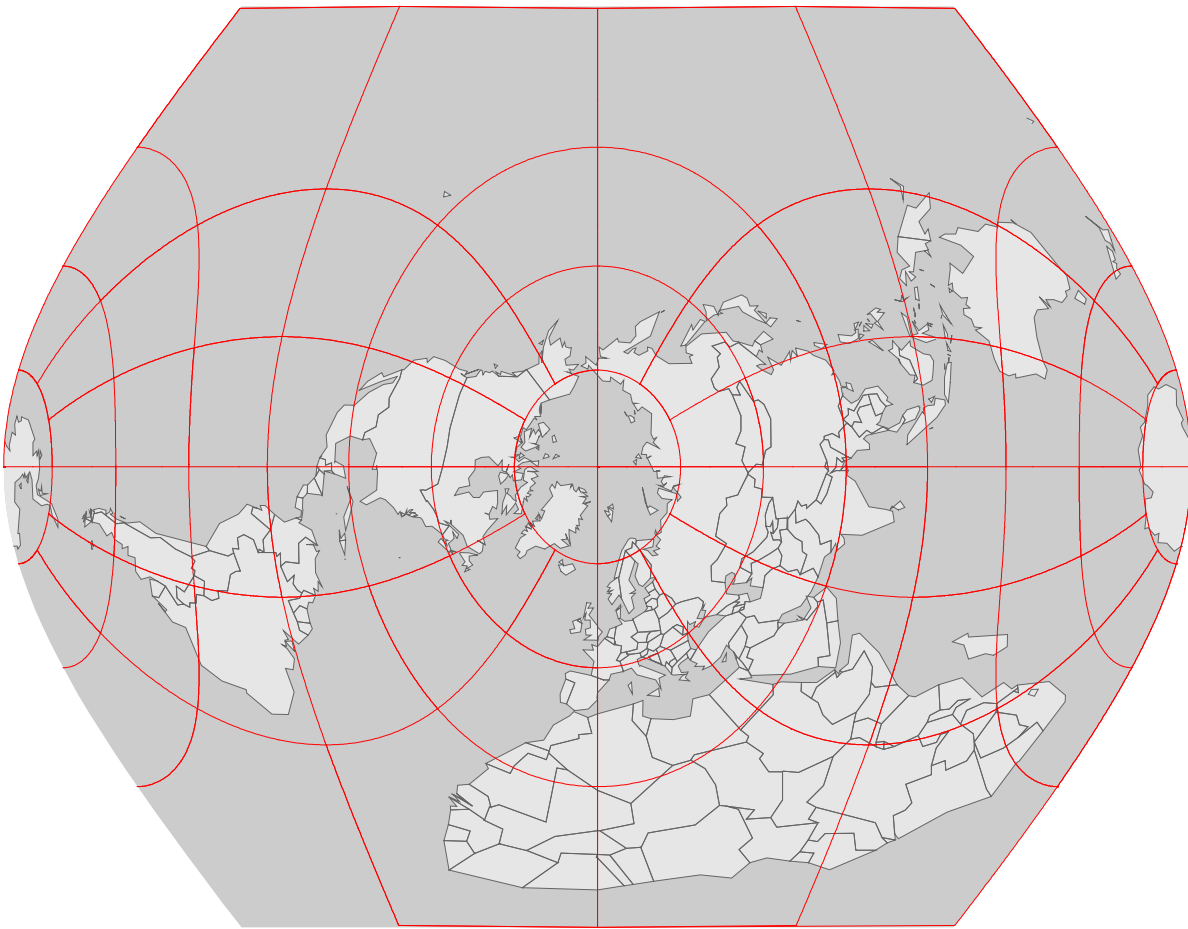


26.

## Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 44 N     | 7 E       |
| 2.  | 9 N      | 39 E      |
| 3.  | 43 N     | 2 E       |
| 4.  | 45 N     | 20 E      |
| 5.  | 4 N      | 9 E       |
| 6.  | 9 N      | 75 W      |
| 7.  | 42 N     | 22 E      |
| 8.  | 60 N     | 30 E      |
| 9.  | 18 N     | 63 W      |
| 10. | 42 N     | 88 W      |

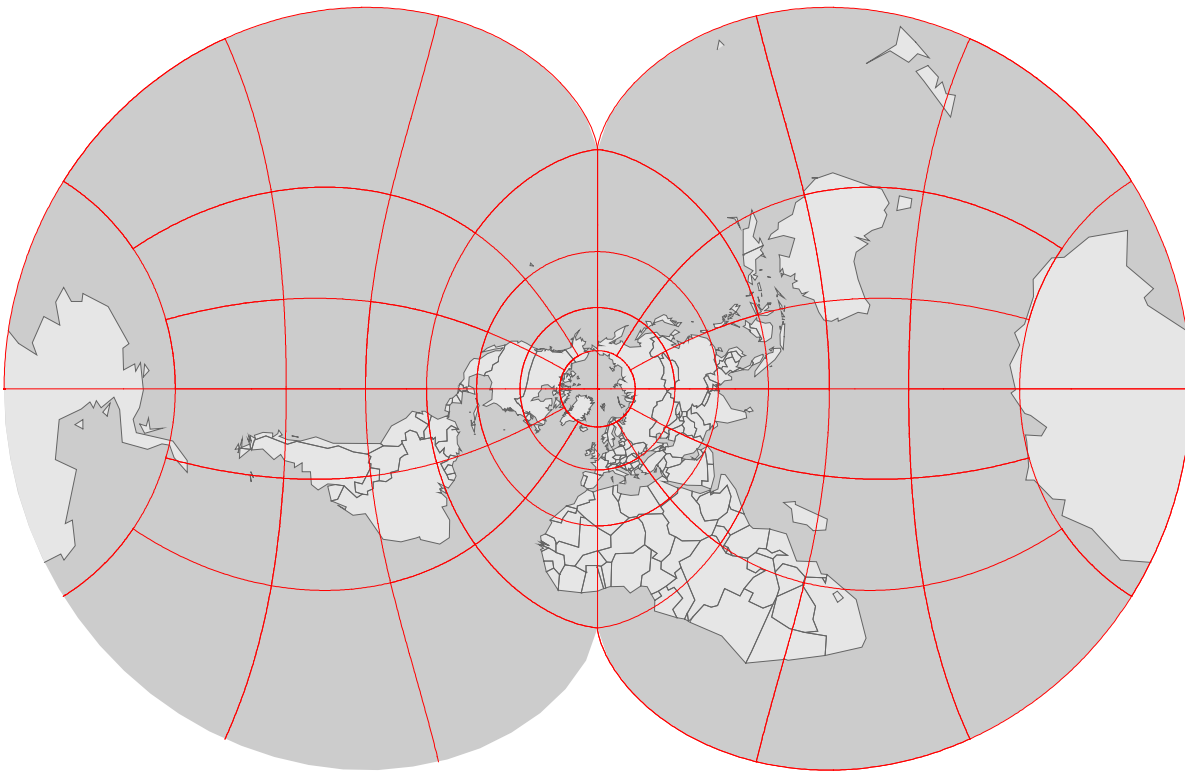


27.

Longitude, Latitude?

On the given map show the following 10 points:

|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 16 N     | 33 E      |
| 2.  | 6 N      | 1 E       |
| 3.  | 21 N     | 40 E      |
| 4.  | 19 N     | 99 W      |
| 5.  | 35 S     | 56 W      |
| 6.  | 56 N     | 38 E      |
| 7.  | 41 N     | 20 E      |
| 8.  | 34 N     | 84 W      |
| 9.  | 34 N     | 118 W     |
| 10. | 41 N     | 74 W      |

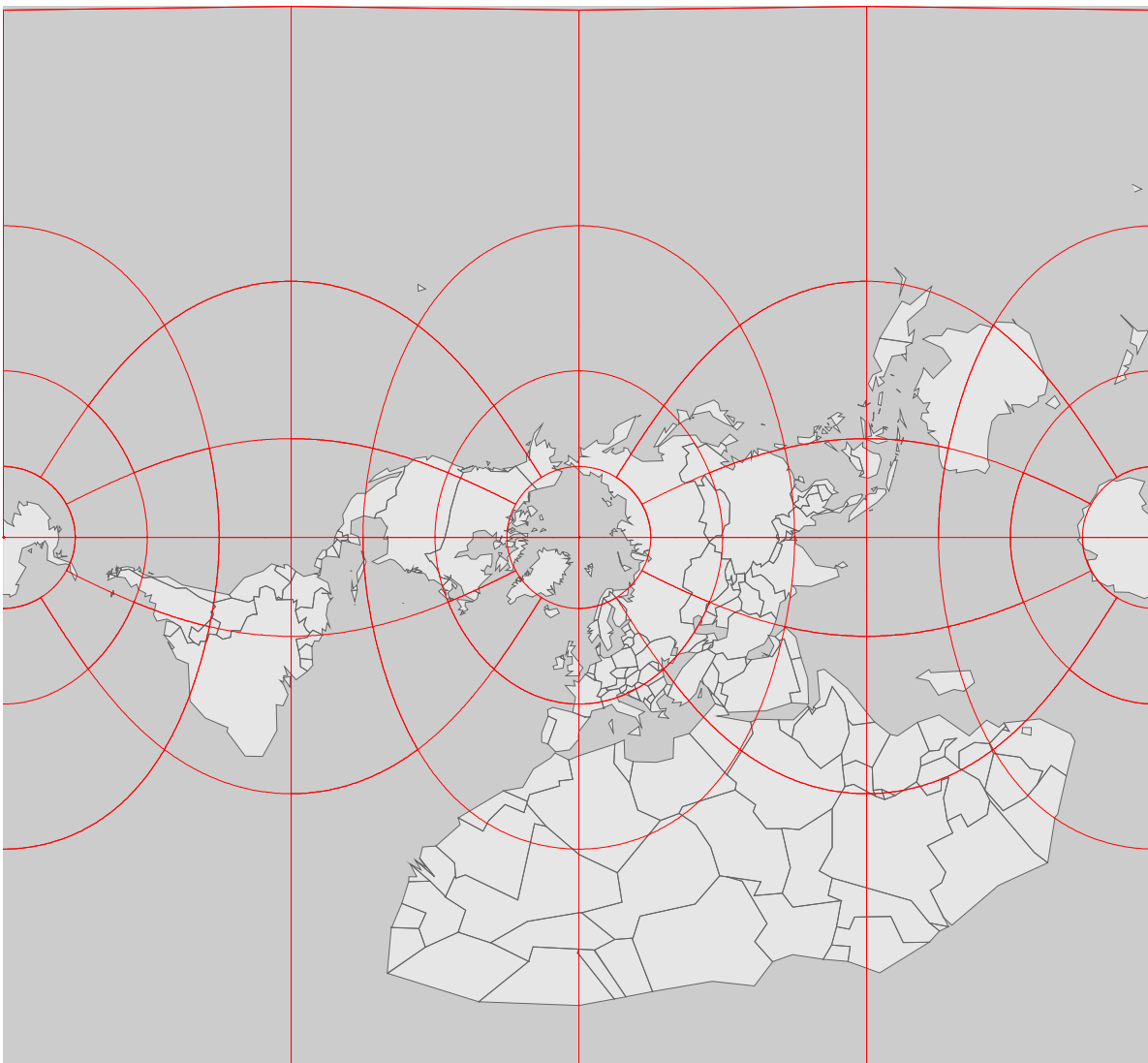


28.

Longitude, Latitude?

On the given map show the following 10 points:

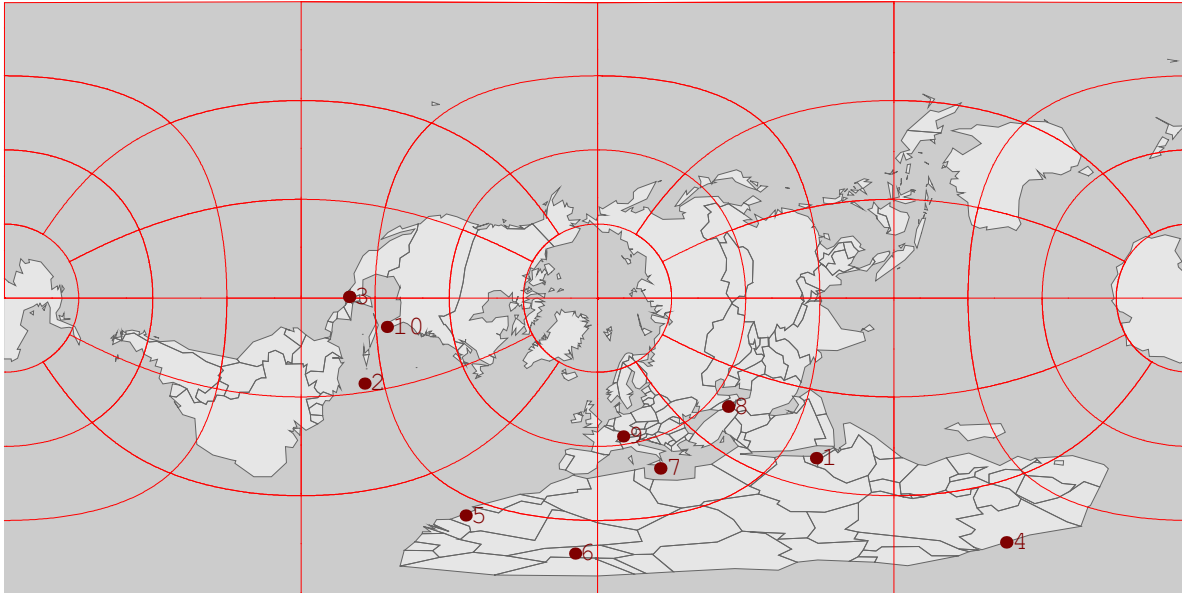
|     | Latitude | Longitude |
|-----|----------|-----------|
| 1.  | 42 N     | 12 E      |
| 2.  | 13 N     | 8 W       |
| 3.  | 39 N     | 9 W       |
| 4.  | 12 N     | 86 W      |
| 5.  | 29 S     | 28 E      |
| 6.  | 6 N      | 11 W      |
| 7.  | 17 N     | 62 W      |
| 8.  | 44 N     | 12 E      |
| 9.  | 5 S      | 56 E      |
| 10. | 47 N     | 9 E       |



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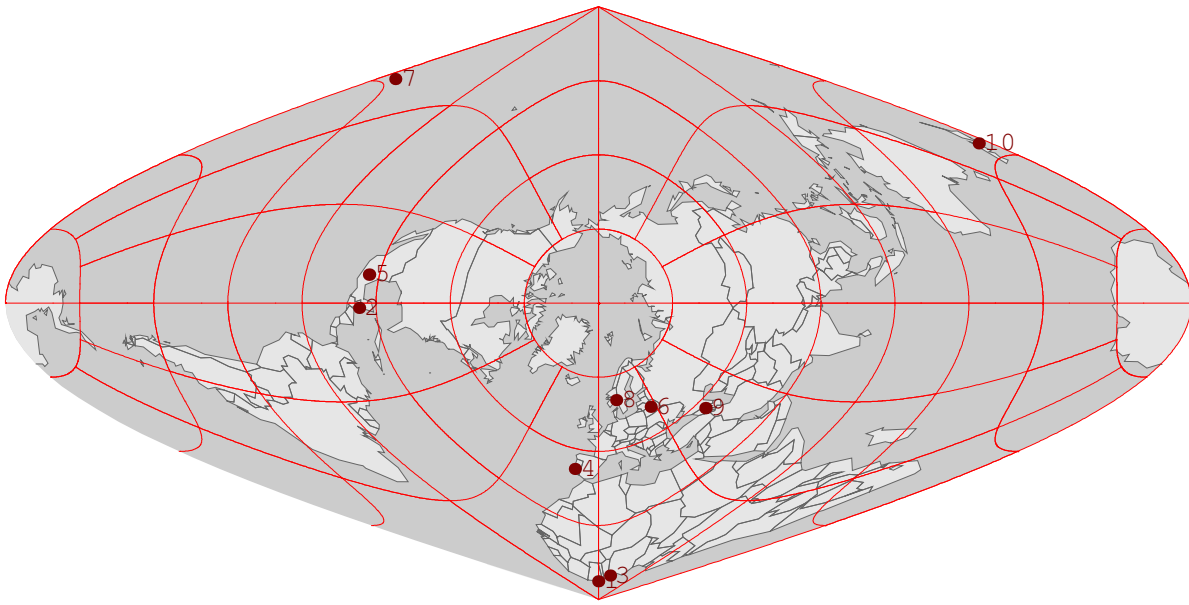
# Solutions

1.

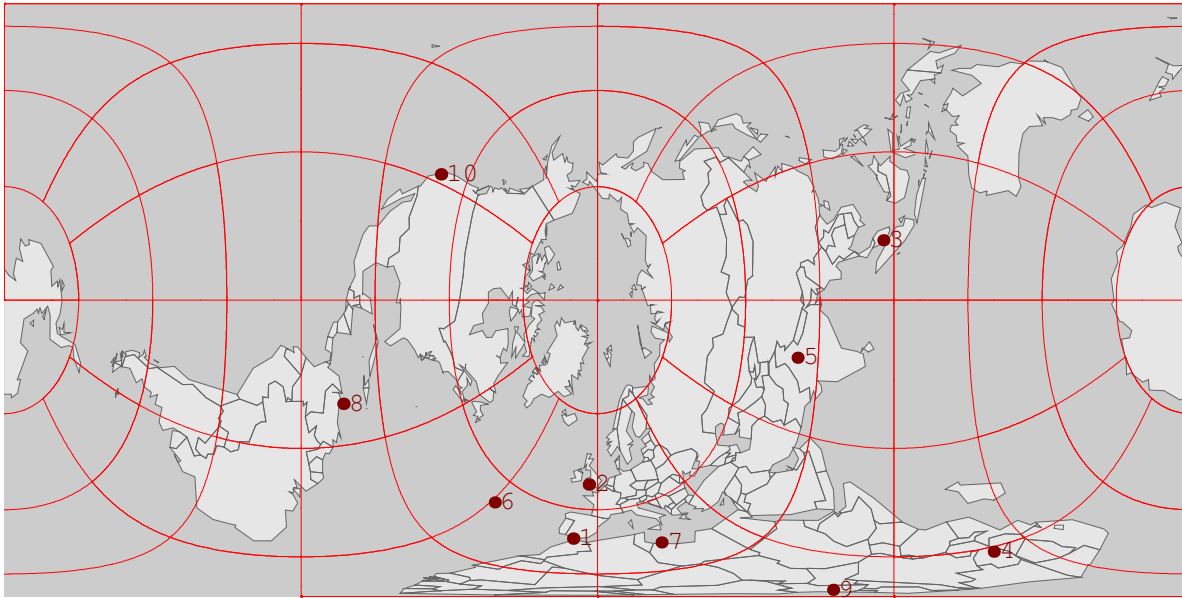




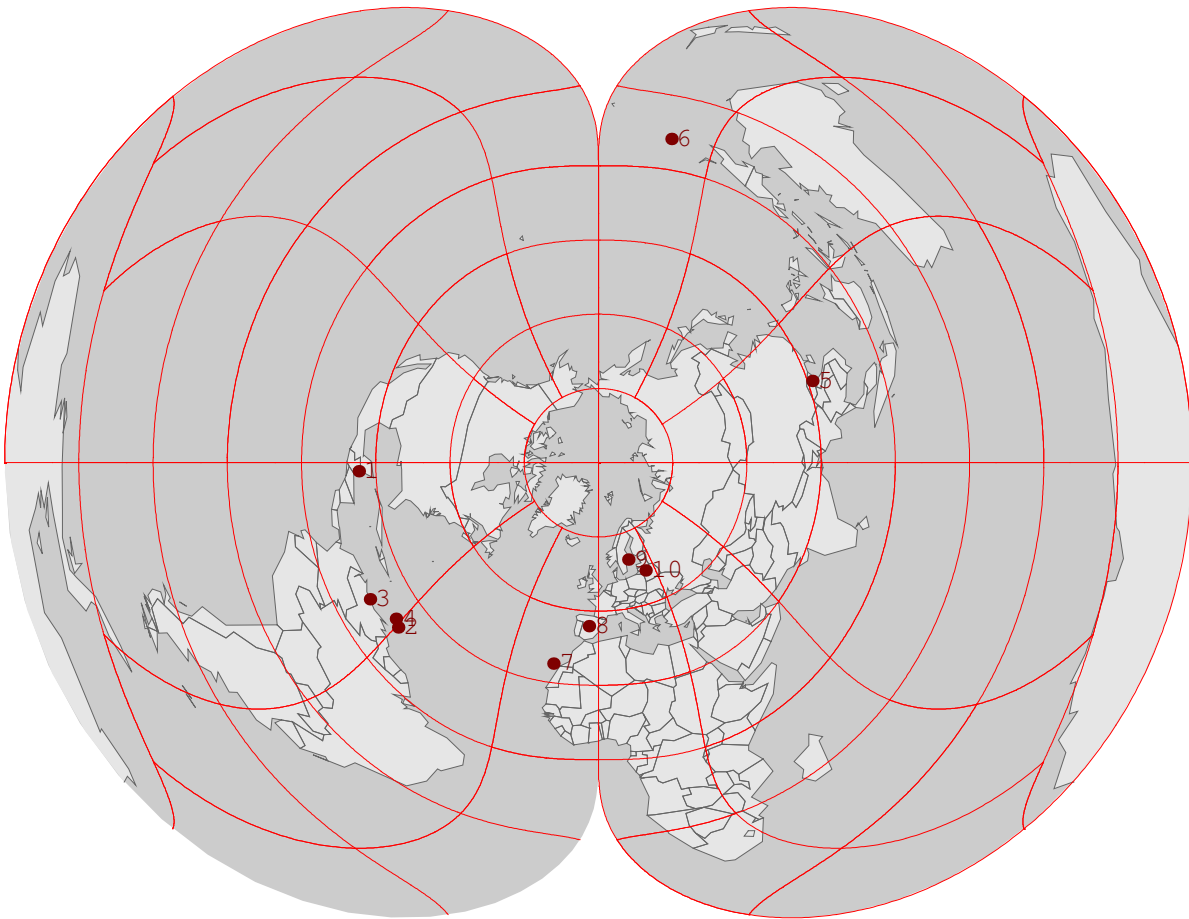
2.



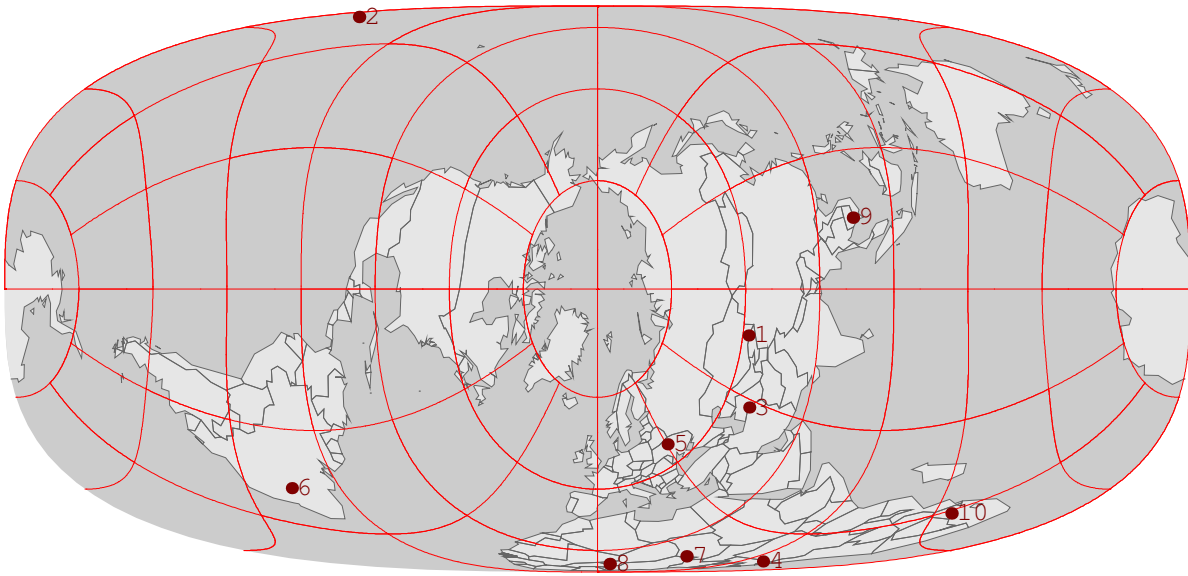
3.



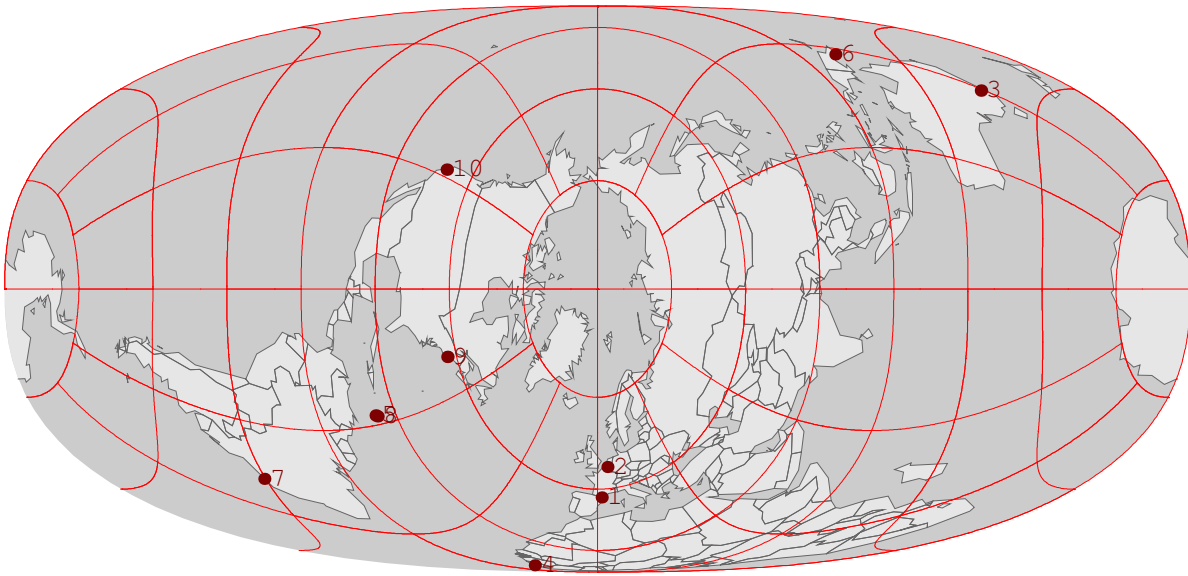
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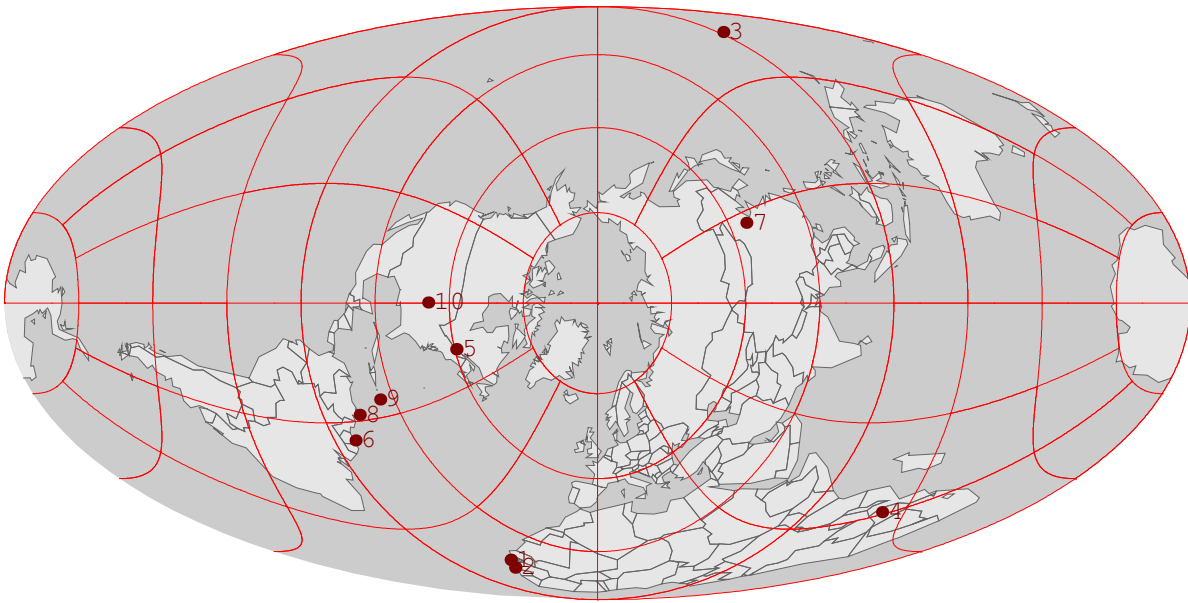
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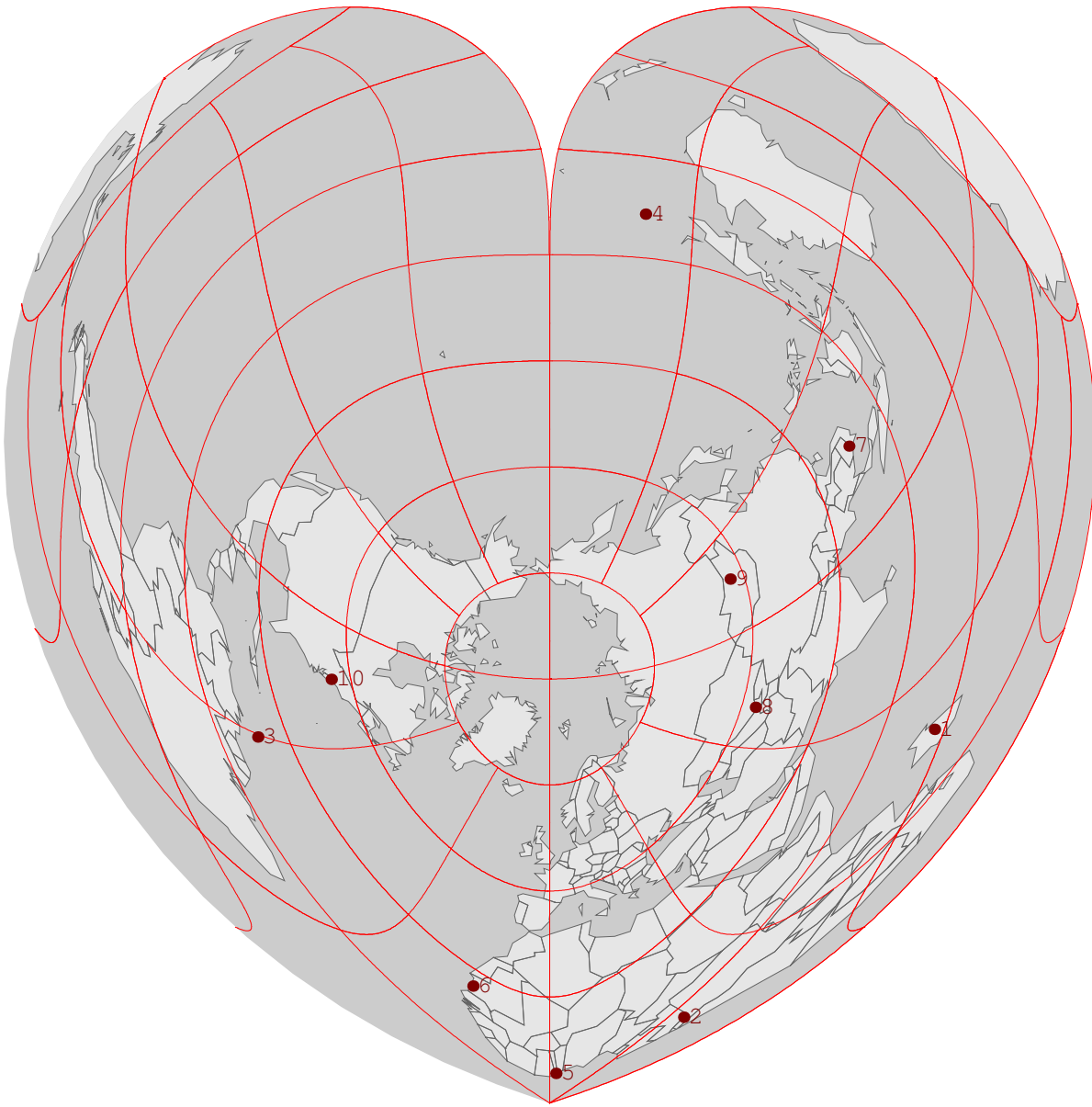
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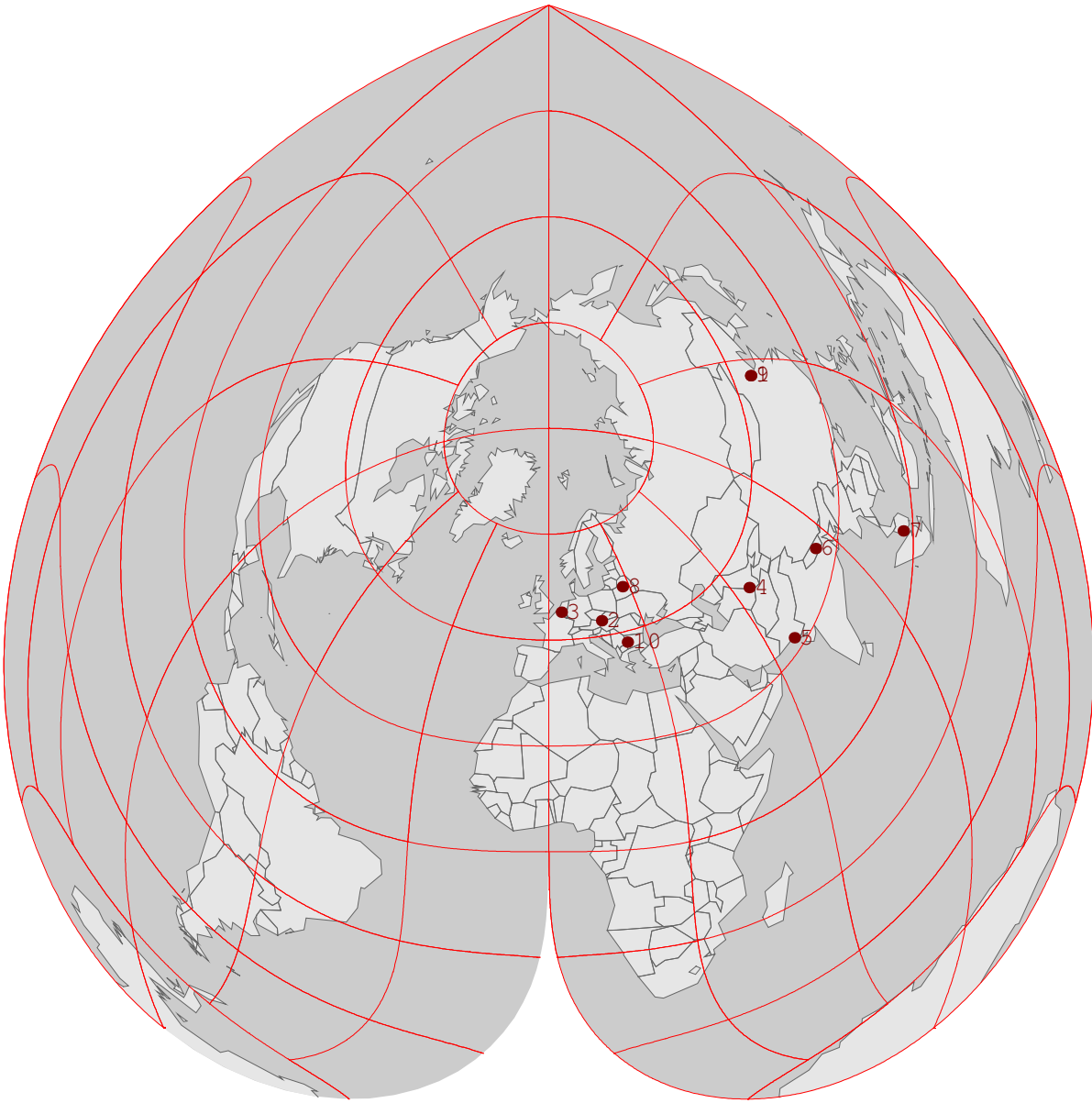
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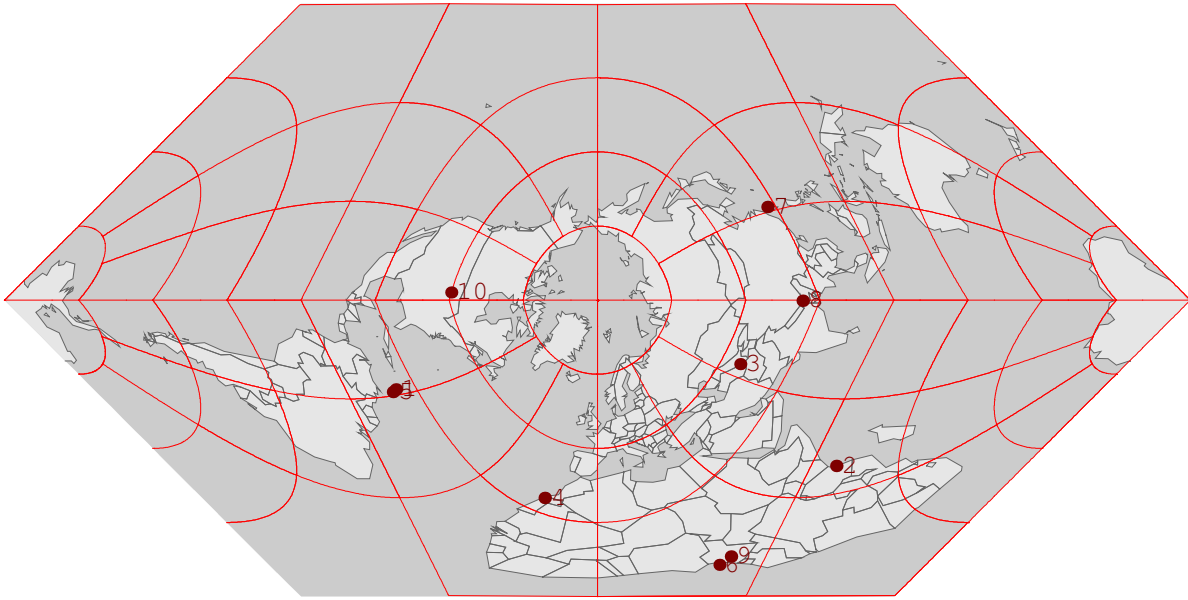


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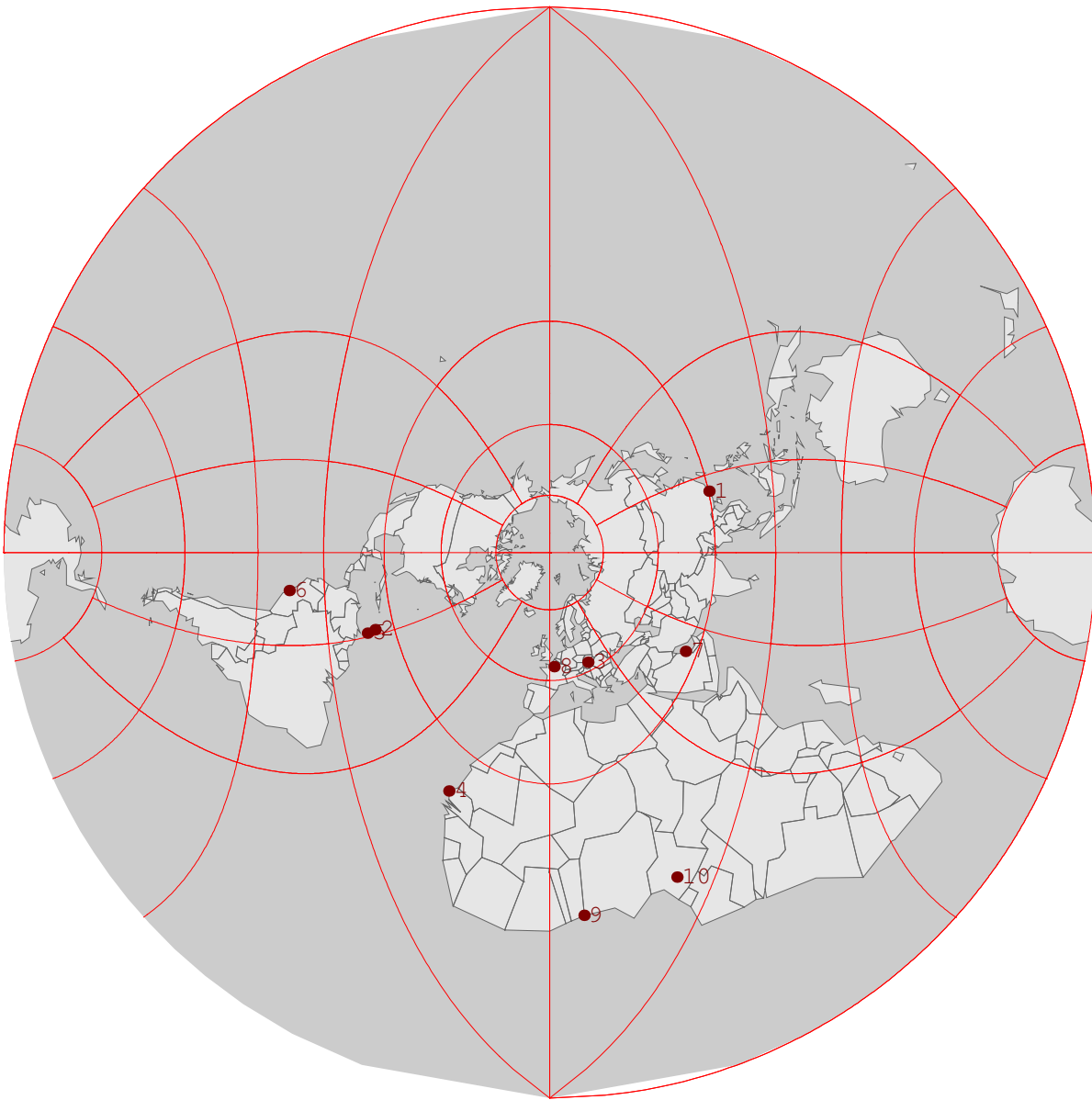




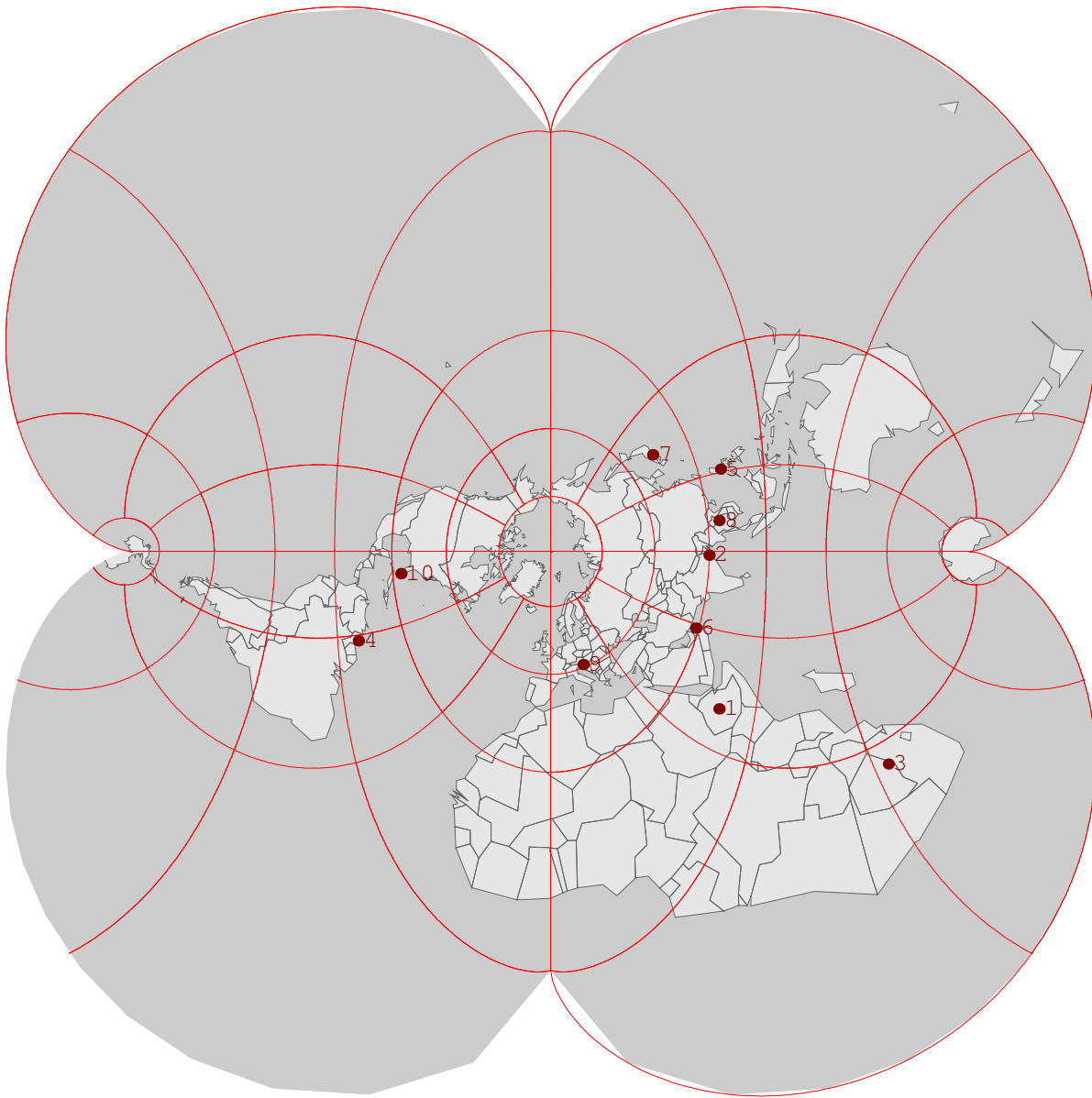
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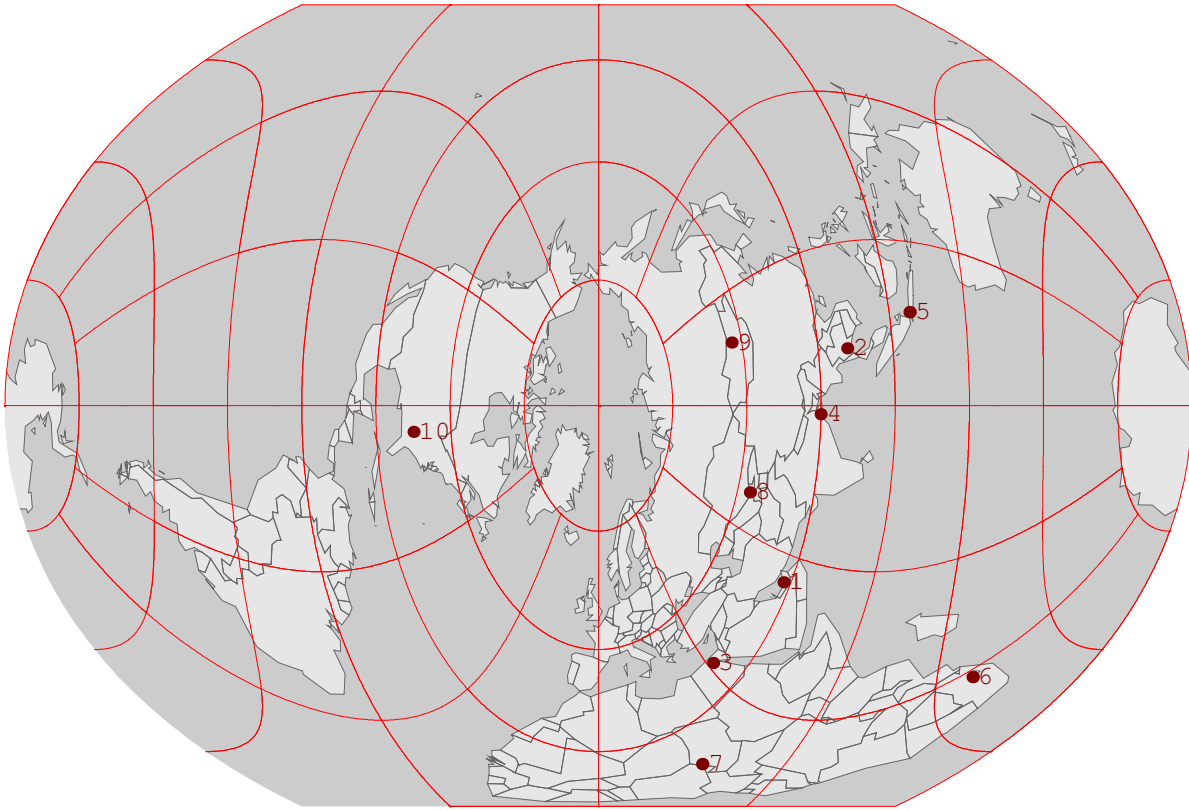
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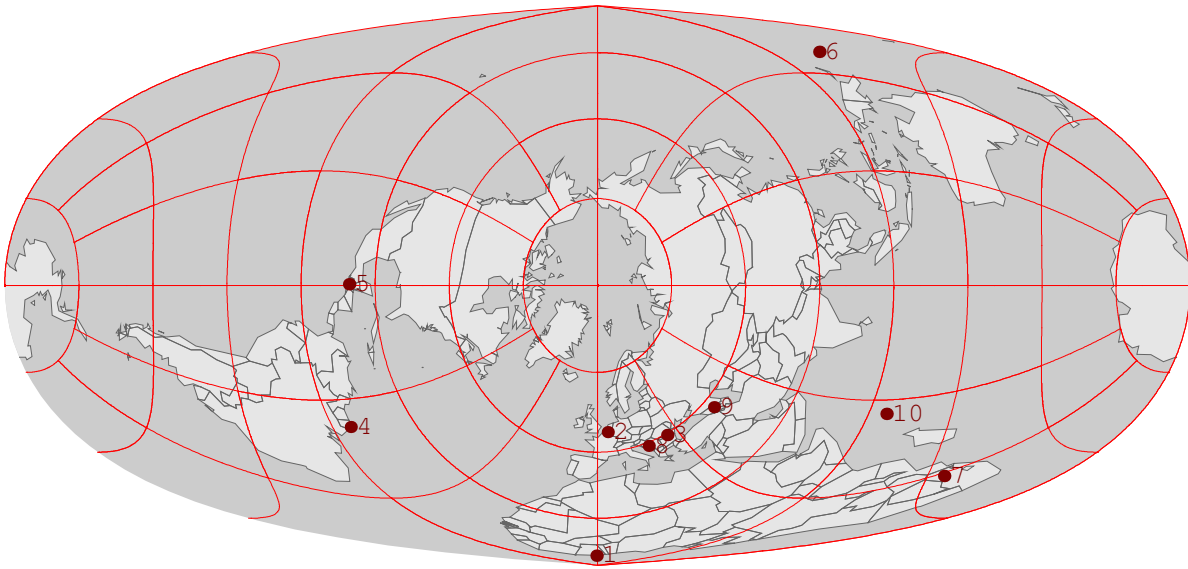
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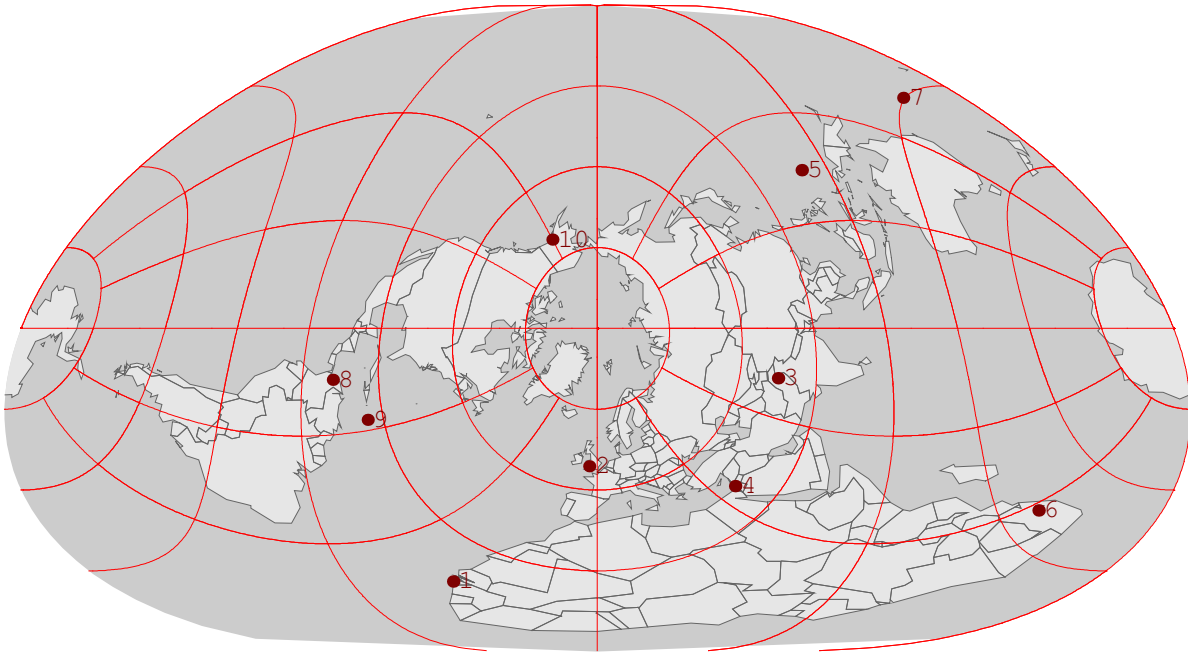
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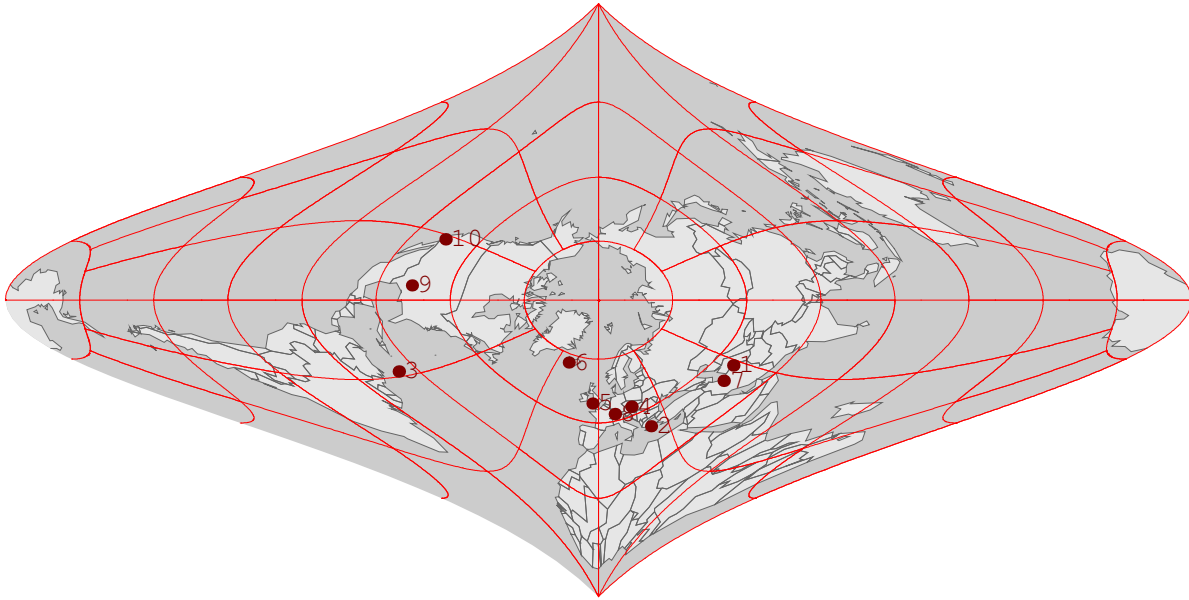
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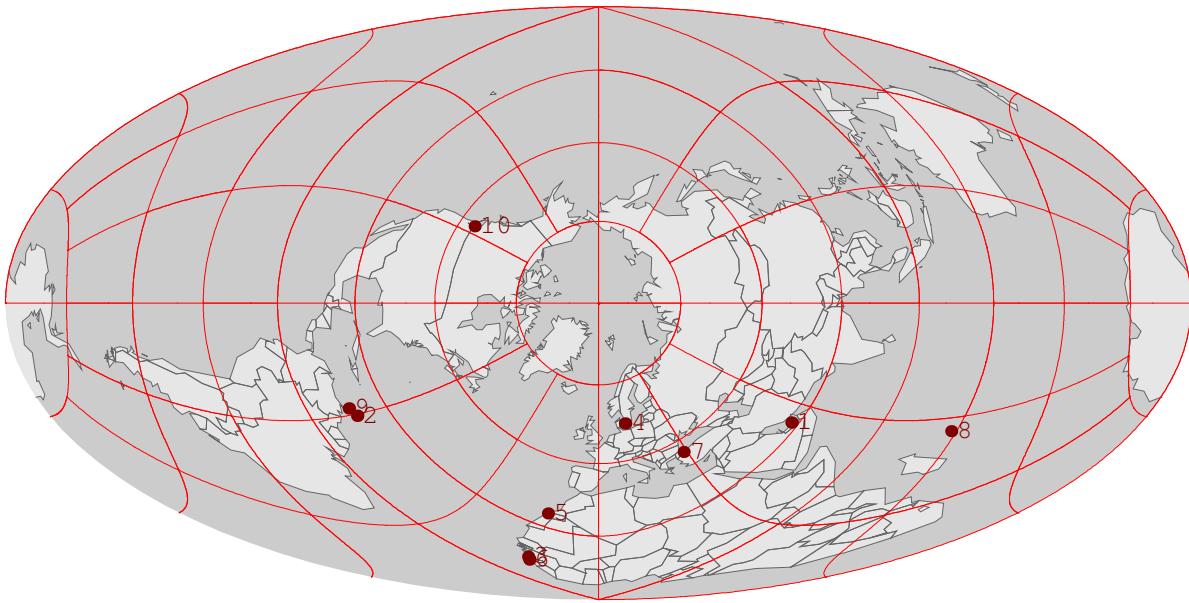
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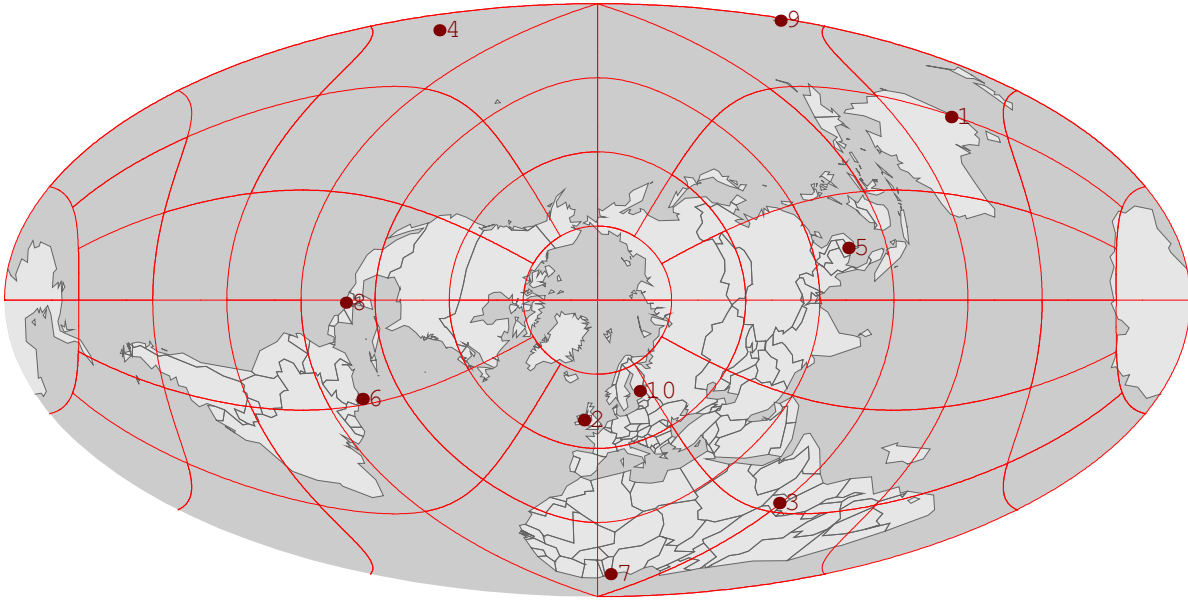


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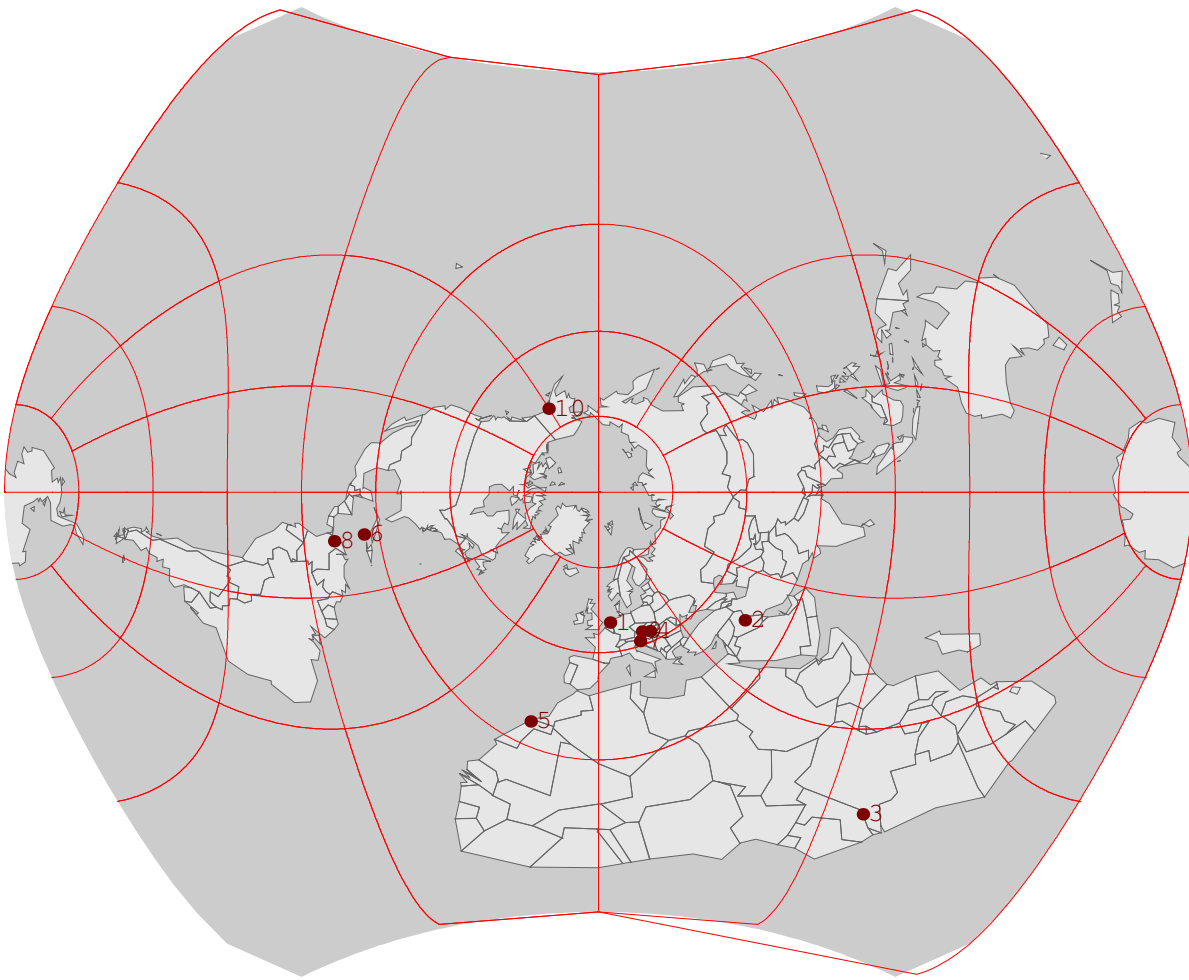




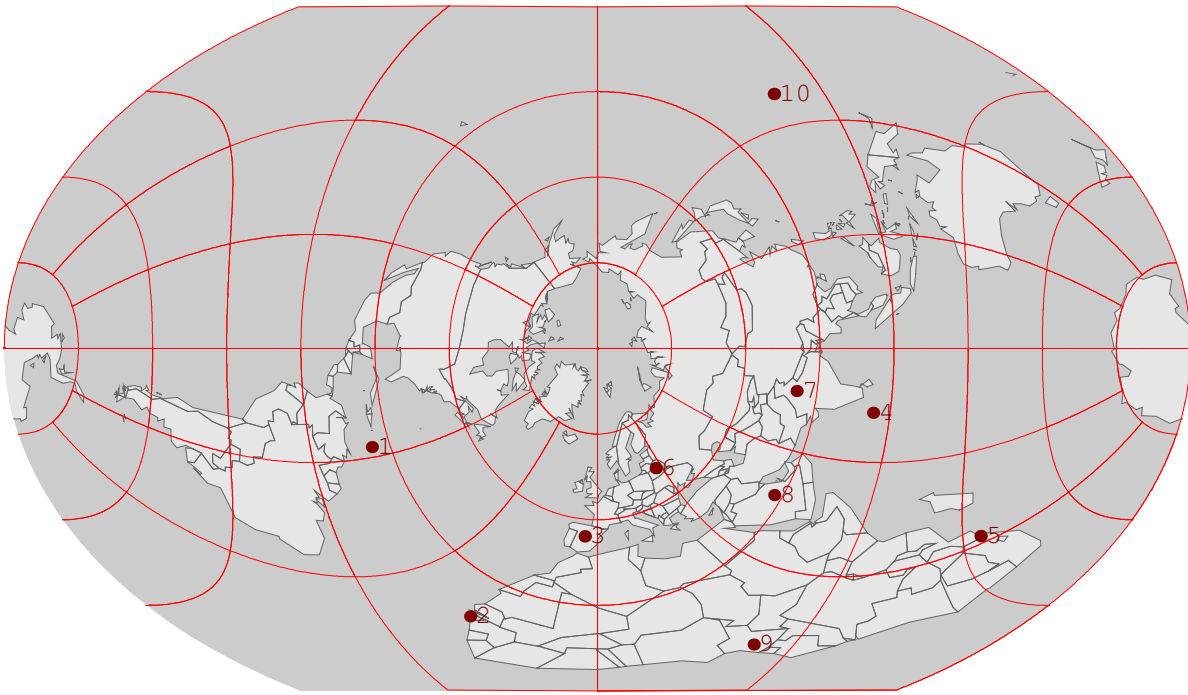
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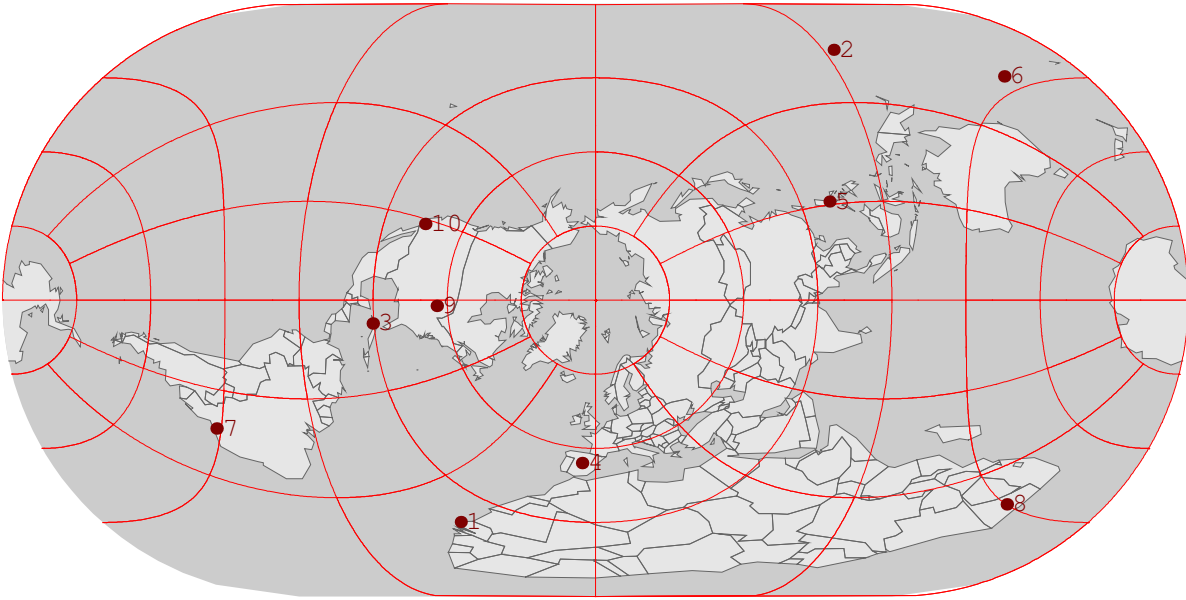
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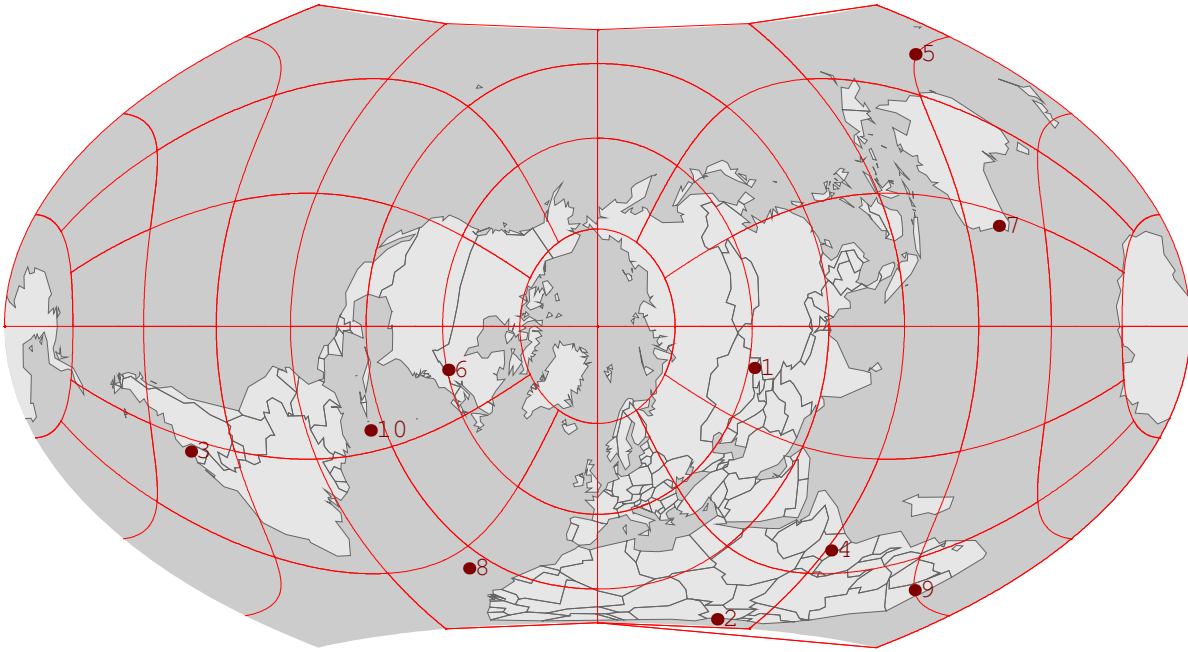
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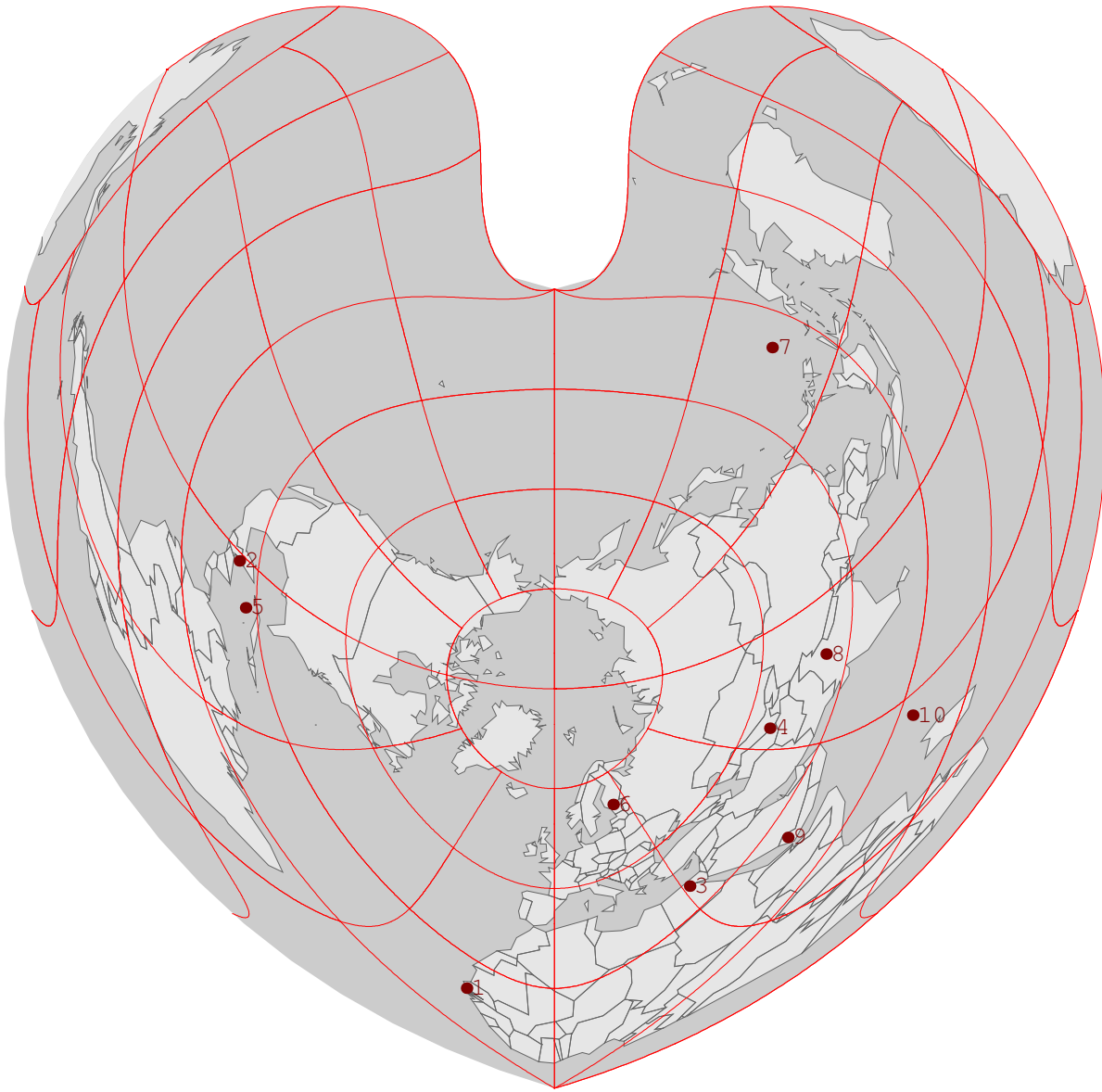
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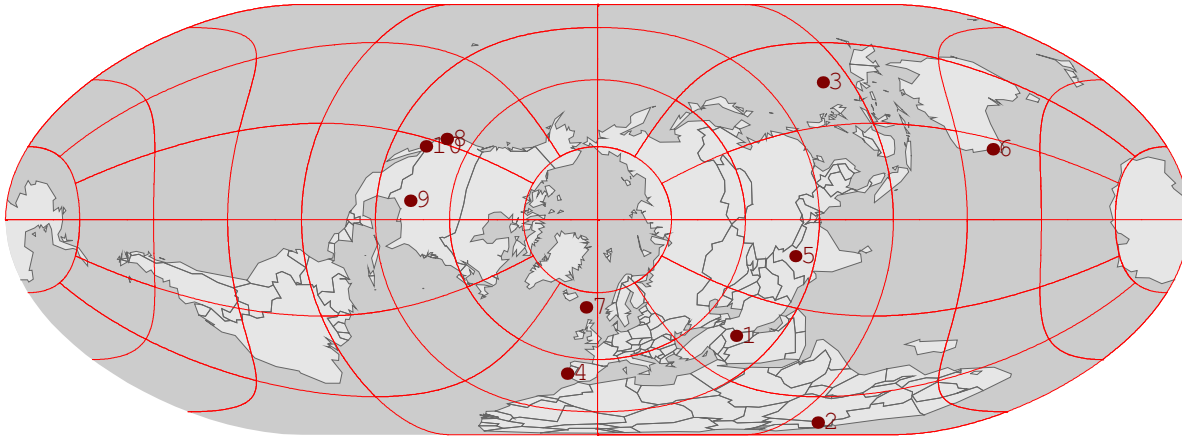
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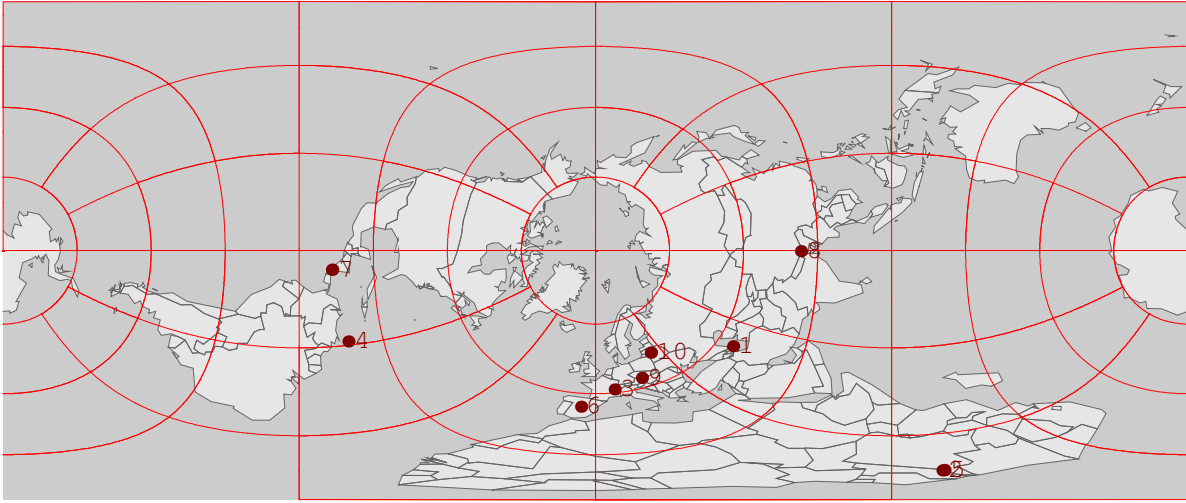
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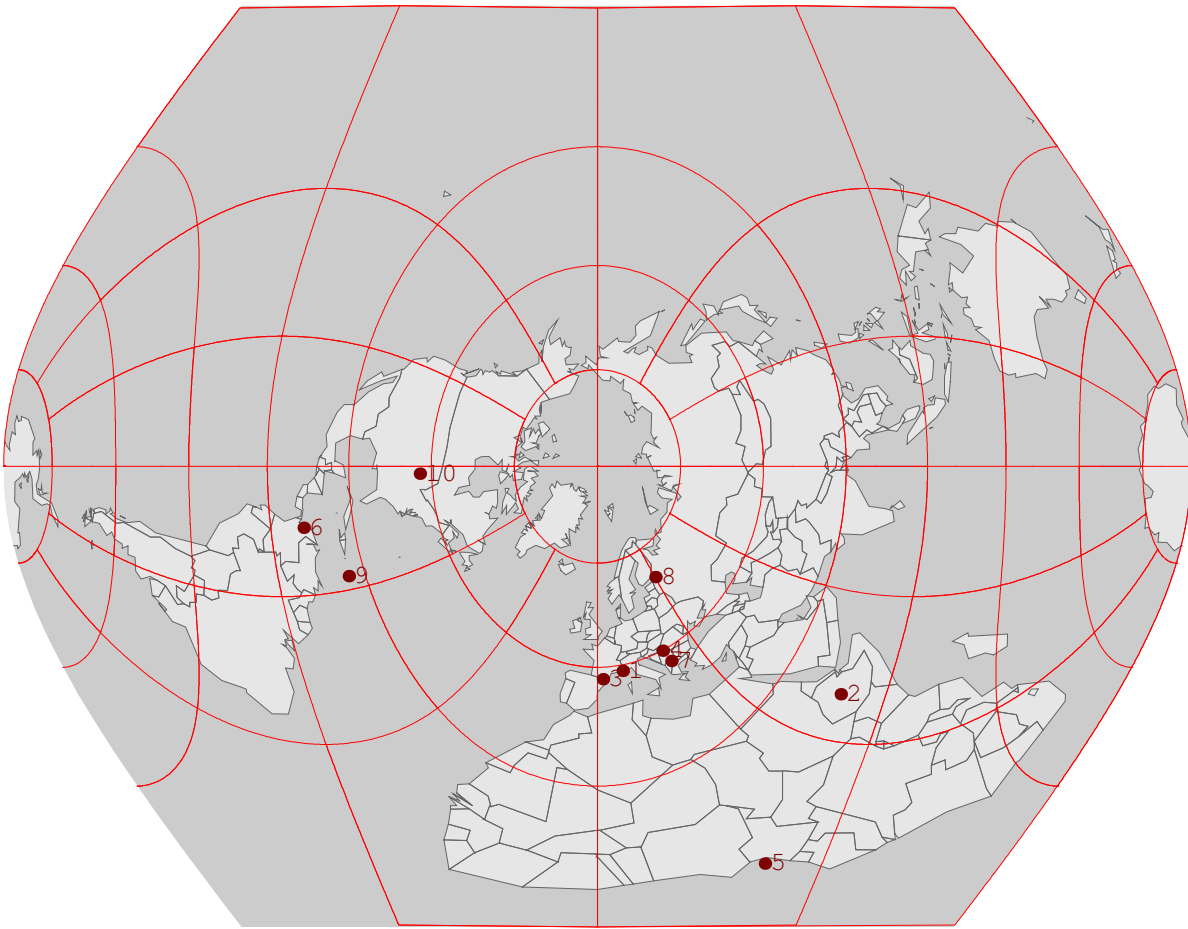


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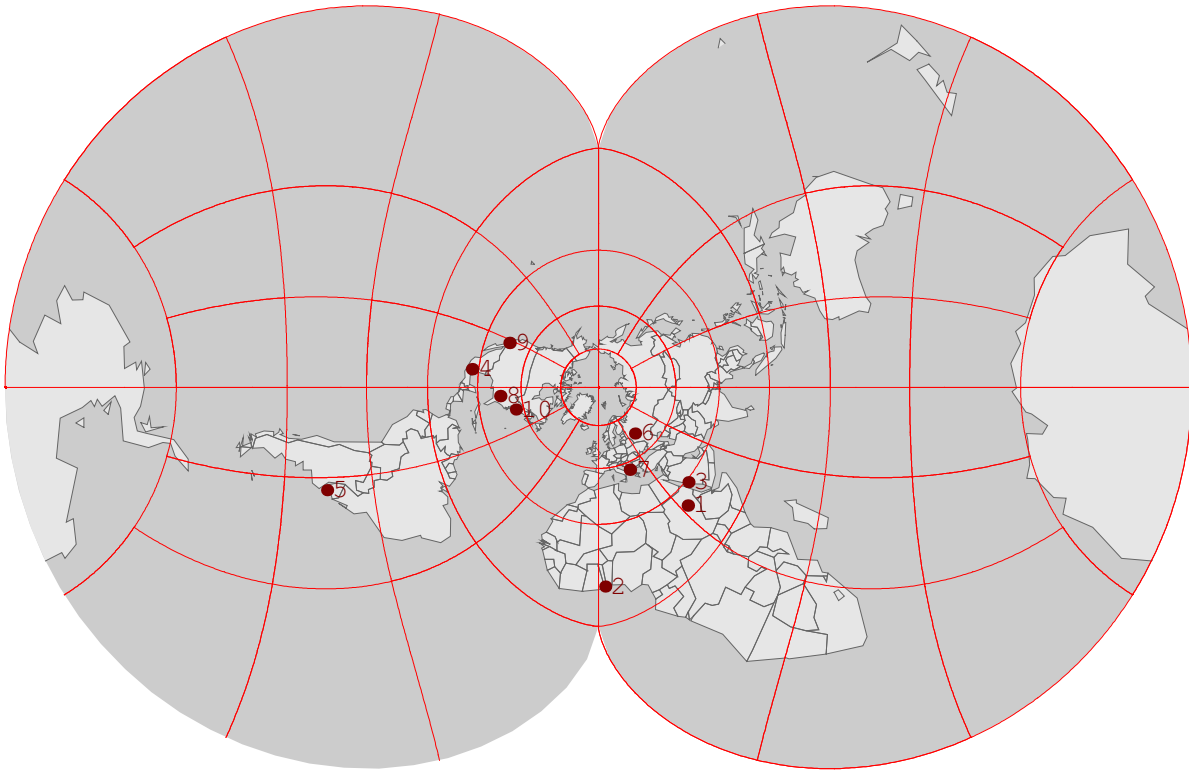




26.



27.



28.

