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Boundary layer structure characteristics under objective classification of persistent pollution weather types in the Beijing area

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|                           | type 1  | type 2  | type 3  | type 4  |
|---------------------------|---------|---------|---------|---------|
| Top of inversion layer    | 825 hPa | 750 hPa | 950 hPa | 750 hPa |
| Vertical wind speed       | ↑       | ↑       | ↓       | ↑       |
| (850 hpa to the ground)   |         |         |         |         |
| Horizontal wind direction and maximum speed | S,SE    | S,E     | S,SW,E  | N,S,SSW |
| (500 m to the ground)     | 8 m s⁻¹ | 6 m s⁻¹ | 6 m s⁻¹ | 4 m s⁻¹ |
| Horizontal wind direction and maximum speed | SW      | W,SW    | NW      | W,NW,SW |
| (500 m to 1500m)          | 8 m s⁻¹ | 8 m s⁻¹ | 14 m s⁻¹| 6 m s⁻¹ |