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Grade of Horizontal Visibility

水平能见度等级

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard was proposed by China Meteorological Administration.

This Standard shall be under the jurisdiction of the National Standardization Technical Committee on Meteorological Disaster Prevention and Reduction.

The drafting organization of this Standard: Hebei Xingtai Meteorological Bureau.

The main drafters of this Standard: Yang Yongsheng, Wang Congmei, Zhang Yingxin, Liu Jin.

Grade of Horizontal Visibility

1 Application Scope

This Standard specifies the grade of horizontal visibility.

This Standard applies to the monitoring, forecasting and services of horizontal visibility.

2 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

2.1

horizontal visibility

meteorological visibility

The maximum horizontal distance of target objects (black, of moderate size) seen or recognized by a person with a normal eyesight from the sky background under the weather conditions at that time; at night, it refers to the maximum horizontal distance of illuminants of moderate strength which can be seen and recognized.

NOTE The minimum brightness contrast (contrast threshold) which is perceptible by the eyes of a person with a normal eyesight is 0.05.

3 Grade of Horizontal Visibility

The grades of horizontal visibility include grade 1 ~ grade 6. The range of visibility and qualitative term of each grade is shown in Table 1.

Table 1 – Grade of Horizontal Visibility

Grade	Qualitative description term	Horizontal visibility
1	Excellent	$V \geq 10 \text{ km}$
2	Good	$2 \text{ km} \leq V < 10 \text{ km}$
3	General	$1 \text{ km} \leq V < 2 \text{ km}$
4	Relatively poor	$500 \text{ m} \leq V < 1 \text{ km}$
5	Poor	$50 \text{ m} \leq V < 500 \text{ m}$

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