



REPUBLIC OF SLOVENIA  
**MINISTRY OF THE ENVIRONMENT, CLIMATE AND ENERGY**  
SLOVENIAN ENVIRONMENT AGENCY

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## Instructions for reading SIGWX charts

Significant weather chart (SIGWX) contains information intended primarily for planning low level flights (up to 20000 feet). Significant weather chart shows conditions over a period of 6 h.

Example of significant weather chart and its explanation:

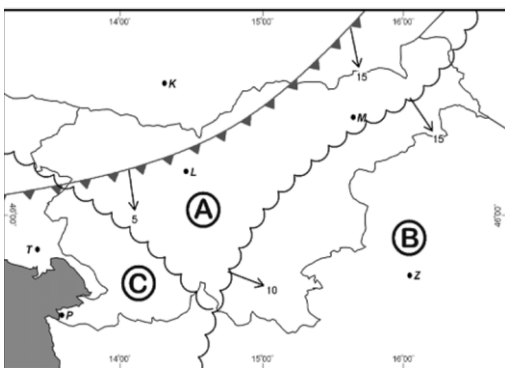
### PERIOD COVERED BY THE FORECAST

SIGWX BELOW 20000 FT ISSUED BY AMS LJLA AT 25.10.2011 13:00 UTC FIXED TIME PROGNOSTIC CHART
SWL VALID from 2512 to 2518 FRONTS/AREAS VALID at 2512

SWL VALID from 2512 to 2518: SWL valid from 1200 UTC to 1800 UTC on the 25<sup>th</sup> day of the month.

FRONTS/AREAS VALID at 2512: graphical part of chart describes expected weather conditions at 1200 UTC on the 25<sup>th</sup> day of the month.

### GRAPHICAL PART



area on the chart



arrow indicates direction and speed (in knots) of weather system movement.



cold front

## TEXT PART

AREA
A,C

indication of marked areas.

TIME
12/18

time window between 1200 UTC and 1800 UTC.

020/XXX expected base and top of the cloud in units of 100 feet (020 indicates cloud base at 2000 feet above mean sea level - AMSL). XXX indicates the layer of atmosphere outside validity of the chart.

AREA	TIME	VIS	WEATHER	CLOUDS	TURB	ICING	O°C
A,C	12/18	6KM	RA	BKN/OVC SC,CU,NS,AS 020/XXX ▲▲	/	☙ 050/XXX	050
ISOL	12/18	3000M	TSRA	EMBD CB 030/XXX			
LCA	15/18	10KM	/	BKN SC,CU,AS Lyr 040/160	☙ SFC/060	/	030

The content of the text part:

AREA A, C; areas A and C on the chart,

TIME 12/18; between 12 UTC and 18 UTC,

VIS 6KM; expected prevailing visibility 6 km,

WEATHER RA; expected weather phenomenon – rain,

CLOUDS BKN/OVC SC,CU,NS,AS 020/XXX; 5/8 to 8/8 cloud types SC, NS, AS with base at 2000 feet above mean sea level and tops above the layer to which the chart applies. Mountain obscuration is expected,

TURB /; moderate or severe turbulence is not expected,

ICING ☙ 050/XXX; moderate icing is expected between 5000 feet mean sea level and above the layer to which the chart applies,

0°C; the altitude of 0°C isotherm is 5000 feet,

AREA ISOL; isolated,

TIME 12/18; between 12 UTC and 18 UTC,

VIS 3000M; expected prevailing visibility 3000m,

WEATHER TSRA; thunderstorm,

CLOUDS EMBD CB 030/XXX; embedded Cumulonimbus with base at 3000 feet mean sea level and top above the layer to which the chart applies,

AREA LCA; locally,

TIME 15/18; between 15 UTC and 18 UTC,

VIS 10KM; expected prevailing visibility 10km,

WEATHER /; nil significant weather

CLOUDS BKN SC,CU,AS Lyr 040/160; 5/8 to 7/8 cloud types SC, CU, AS in layers (LYR) with lowest base at 4000 feet mean sea level and top at 16000 feet mean sea level,

TURB ☙ SFC/060; moderate turbulence is expected between surface and 6000 feet above mean sea level,

ICING /; moderate or severe icing is not expected,

0°C; altitude of 0°C isotherm is at 3000 feet above mean sea level,

## SYMBOLS AND ABBREVIATIONS

### CLOUDS

SC – stratocumulus  
ST – stratus  
CU – cumulus  
CB – cumulonimbus  
TCU – towering cumulus  
NS – nimbostratus  
AS – altostratus  
AC – altocumulus  
CI – cirrus  
CS – cirrostratus  
CC - cirrocumulus

### CONVECTIVE COVERAGE

ISOL – isolated  
OCNL – occasional  
FRQ- frequent  
SQL – squall line

### WEATHER

FG – fog  
BR- mist  
FZ – freezing  
RA – rain  
SN – snow  
SH – shower  
TS - thunderstorm  
BC – patches  
GR – hail  
GS – small hail or snow pellets  
HZ – haze

### SYMBOLS AND ABBREVIATIONS

EMBD – embedded  
LYR – layer  
LCA – locally  
NIL – nil significant weather  
FEW – few (1/8 to 2/8 cloud)  
SCT – scattered (3/8 to 4/8 cloud)  
BKN – broken (5/8 to 7/8 cloud)  
OVC – overcast (8/8 cloud)



- moderate turbulence



- severe turbulence



- moderate icing



- mountain obscuration (75% or more of area covered by cloud)



- widespread strong surface wind (number indicates expected maximum wind gusts)