

# URMM - Mineralnyye Vody - Mineralnyye Vody Intl

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## Airport details

|             |                    |
|-------------|--------------------|
| State       | Stavropol Krai     |
| Country     | Russian Federation |
| Region      | UR                 |
| Elevation   | 1046ft (319m)      |
| Timezone    | GMT +3             |
| Coordinates | 44.22191, 43.08369 |
| Type        | land               |
| ICAO code   | URMM               |
| IATA code   | MRV                |
| FAA code    | n/a                |

## Runway info

|                |                 |
|----------------|-----------------|
| Runway 12 / 30 |                 |
| length         | 3894m (12776ft) |
| bearing        | 114° / 294°     |
| width          | 60m (197ft)     |
| surface        | concrete        |

## Communication

|                            |         |
|----------------------------|---------|
| Mineralnyye Vody Intl ATIS | 125.250 |
| Mineralnyye Vody Intl ATIS | 125.250 |
| Mineralnyye Vody Intl ATIS | 125.250 |
| Mineralnyye Vody Intl ATIS | 125.250 |
| Mineralnyye Vody Intl GND  | 121.900 |
| Mineralnyye Vody Intl GND  | 121.900 |
| Mineralnyye Vody Intl GND  | 121.900 |
| Mineralnyye Vody Intl GND  | 121.900 |
| Mineralnyye Vody Intl TWR  | 128.000 |
| Mineralnyye Vody Intl TWR  | 128.000 |
| Mineralnyye Vody Intl TWR  | 128.000 |
| Mineralnyye Vody Intl TWR  | 128.000 |
| Mineralnyye Vody Intl APPR | 119.300 |
| Mineralnyye Vody Intl APPR | 119.300 |
| Mineralnyye Vody Intl APPR | 119.300 |
| Mineralnyye Vody Intl APPR | 119.300 |

## Approach frequencies

|            |    |       |         |
|------------|----|-------|---------|
| ILS-cat-II | 12 | 111.7 | 18.00mi |
| ILS-cat-I  | 30 | 109.3 | 18.00mi |

|       |    |       |         |
|-------|----|-------|---------|
| 3° GS | 12 | 111.7 | 18.00mi |
| 3° GS | 30 | 109.3 | 18.00mi |

## Nearby beacons

| code | identifier                   | dist | bearing | frequency |
|------|------------------------------|------|---------|-----------|
| MNW  | MINERALNYYE VODY VOR/DME     | 1.6  | 300.4°  | 117.10    |
| MD   | MINERALNYYE VODY NDB         | 3.9  | 297.1°  | 468       |
| N    | NALCHIK NDB                  | 48.8 | 140.5°  | 350       |
| NF   | NALCHIK NDB                  | 49   | 138.5°  | 718       |
| KT   | SHPAKOVSKOYE (STAVROPOL) NDB | 66.3 | 314.8°  | 730       |
| K    | SHPAKOVSKOYE (STAVROPOL) NDB | 66.9 | 313.5°  | 358       |
| STW  | SHPAKOVSKOYE VOR/DME         | 67.3 | 312.5°  | 114.90    |
| O    | SHPAKOVSKOYE (STAVROPOL) NDB | 68   | 311.4°  | 358       |

## Departure and arrival routes

Transition altitude 4000ft

| SID end points | distance | outbound direction |
|----------------|----------|--------------------|
|----------------|----------|--------------------|

RW12

|                                |      |      |
|--------------------------------|------|------|
| UGBE5G, UGBE5L, UGBE5J         | 36.9 | 40°  |
| OGEM5J, OGEM5L, OGEM5G         | 27.1 | 65°  |
| URIL5G, URIL5J, URIL5L         | 27.1 | 95°  |
| OKAR5L, OKAR5G, OKAR5J         | 38.6 | 117° |
| MOZA5V, MOZA5G, MOZA5J, MOZA5L | 29.7 | 173° |
| RESL5G, RESL5J, RESL5L         | 25.6 | 239° |
| ABEL5L, ABEL5J, ABEL5G         | 20.8 | 266° |
| SULO5L, SULO5J, SULO5G         | 28.5 | 311° |
| LARI5L, LARI5U, LARI5G, LARI5J | 22.8 | 350° |

RW30

|                        |      |      |
|------------------------|------|------|
| UGBE5M, UGBE5K, UGBE5H | 36.9 | 40°  |
| OGEM5M, OGEM5K, OGEM5H | 27.1 | 65°  |
| URIL5H, URIL5M, URIL5K | 27.1 | 95°  |
| OKAR5K, OKAR5M, OKAR5H | 38.6 | 117° |
| MOZA5M, MOZA5K, MOZA5H | 29.7 | 173° |
| RESL5M, RESL5H, RESL5K | 25.6 | 239° |
| ABEL5K, ABEL5H, ABEL5M | 20.8 | 266° |
| SULO5M, SULO5K, SULO5H | 28.5 | 311° |
| LARI5H, LARI5K, LARI5M | 22.8 | 350° |

| STAR starting points | distance | inbound direction |
|----------------------|----------|-------------------|
|----------------------|----------|-------------------|

ALL

|                |      |      |
|----------------|------|------|
| RESL5F, RESL5E | 25.6 | 59°  |
| ABEL5E, ABEL5F | 20.8 | 86°  |
| SULO5E, SULO5F | 28.5 | 131° |
| LARI5F, LARI5E | 22.8 | 170° |
| DEPS5F, DEPS5E | 21.9 | 225° |

|      |                                |      |      |
|------|--------------------------------|------|------|
|      | OGEM5E, OGEM5F                 | 27.1 | 245° |
|      | URIL5F, URIL5E                 | 27.1 | 275° |
|      | OKAR5F, OKAR5E                 | 38.6 | 297° |
| RW12 |                                |      |      |
|      | RESL5C, RESL5A                 | 25.6 | 59°  |
|      | ABEL5A                         | 20.8 | 86°  |
|      | SULO5C, SULO5A                 | 28.5 | 131° |
|      | LARI5C, LARI5A                 | 22.8 | 170° |
|      | DEPS5C, DEPS5A                 | 21.9 | 225° |
|      | OGEM5C, OGEM5A                 | 27.1 | 245° |
|      | URIL5C, URIL5X, URIL5A         | 27.1 | 275° |
|      | OKAR5C, OKAR5X, OKAR5A         | 38.6 | 297° |
| RW30 |                                |      |      |
|      | RESL5D, RESL5W, RESL5Z, RESL5B | 25.6 | 59°  |
|      | ABEL5W, ABEL5B                 | 20.8 | 86°  |
|      | SULO5B, SULO5W, SULO5D         | 28.5 | 131° |
|      | LARI5D, LARI5B                 | 22.8 | 170° |
|      | DEPS5B, DEPS5D                 | 21.9 | 225° |
|      | OGEM5D, OGEM5B                 | 27.1 | 245° |
|      | URIL5D, URIL5B                 | 27.1 | 275° |
|      | OKAR5D, OKAR5B                 | 38.6 | 297° |

## Holding patterns

| STAR name | hold at | type | turn  | heading*   | altitude            | leg             | speed limit |
|-----------|---------|------|-------|------------|---------------------|-----------------|-------------|
| ABEL5B    | MM011   | VHF  | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| ABEL5E    | MNW     | NDB  | left  | 295 (115)° | 6600ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| ABEL5F    | MD      | FIX  | left  | 295 (115)° | 5400ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| ABEL5W    | MM011   | VHF  | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| DEPS5A    | MM003   | VHF  | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| DEPS5B    | MM011   | VHF  | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| DEPS5C    | MM003   | VHF  | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| DEPS5D    | MM011   | VHF  | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| DEPS5E    | MNW     | NDB  | left  | 295 (115)° | 6600ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| DEPS5F    | MD      | FIX  | left  | 295 (115)° | 5400ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| LARI5A    | MM003   | VHF  | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |
| LARI5B    | MM011   | VHF  | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules  |

|        |       |     |       |            |                     |                 |            |
|--------|-------|-----|-------|------------|---------------------|-----------------|------------|
| LARI5C | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| LARI5D | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| LARI5E | MNW   | NDB | left  | 295 (115)° | 6600ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| LARI5F | MD    | FIX | left  | 295 (115)° | 5400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OGEM5A | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OGEM5B | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OGEM5C | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OGEM5D | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OGEM5E | MNW   | NDB | left  | 295 (115)° | 6600ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OGEM5F | MD    | FIX | left  | 295 (115)° | 5400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OKAR5A | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OKAR5C | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OKAR5E | MNW   | NDB | left  | 295 (115)° | 6600ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OKAR5F | MD    | FIX | left  | 295 (115)° | 5400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| OKAR5X | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| RESL5B | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| RESL5E | MNW   | NDB | left  | 295 (115)° | 6600ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| RESL5F | MD    | FIX | left  | 295 (115)° | 5400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| RESL5W | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| SULO5B | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| SULO5D | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| SULO5E | MNW   | NDB | left  | 295 (115)° | 6600ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| SULO5F | MD    | FIX | left  | 295 (115)° | 5400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| SULO5W | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| URIL5A | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| URIL5C | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |

|        |       |     |       |            |                     |                 |            |
|--------|-------|-----|-------|------------|---------------------|-----------------|------------|
| URIL5D | MM011 | VHF | left  | 25 (205)°  | 4400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| URIL5E | MNW   | NDB | left  | 295 (115)° | 6600ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| URIL5F | MD    | FIX | left  | 295 (115)° | 5400ft -<br>10000ft | 1.0min<br>timed | ICAO rules |
| URIL5X | MM003 | VHF | right | 25 (205)°  | 3900ft -<br>10000ft | 1.0min<br>timed | ICAO rules |

\*) magnetic outbound (inbound) holding course

## Disclaimer

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