CLAIMS

1. A user terminal comprising:

a transmission section that transmits uplink control information (UCI) using an uplink control channel; and

a control section that controls at least one of generation and transmission of the UCI based on a spreading factor of the uplink control channel,

wherein the control section fixes at least one of a number of symbols and positions for demodulation reference signals in a slot for at least two spreading factors.

2. The user terminal according to claim 1, further comprising a receiving section that receives information indicative of the spreading factor via higher layer signaling.

3. The user terminal according to claim 1 or 2, wherein the spreading factor is any one of 1, 2 and 3.

4. The user terminal according to any one of claim 1 to claim 3, wherein the control section determines a number of bits to transmit on the uplink control channel, based on at least one of the spreading factor, a number of symbols excluding the symbols for the demodulation reference signals in the slot, a modulation scheme and a number of resource blocks used for the uplink control channel controlled based on information indicative of the spreading factor.

5. The user terminal according to any one of claims 1 to 4, wherein the control section maps the UCI over a plurality of resource blocks per symbol, in order from a first symbol in a subframe using the uplink control channel.

6. A radio base station comprising:

a receiving section that receives uplink control information (UCI) using an uplink control channel; and

a control section that controls reception of the UCI based on a spreading factor of the uplink control channel,

wherein at least one of a number of symbols and positions for demodulation reference signals in a slot is fixed for at least two spreading factors.

7. A radio communication method for a user terminal, comprising:

transmitting uplink control information (UCI) using an uplink control channel; and

controlling at least one of generation and transmission of the UCI based on a spreading factor of the uplink control channel,

wherein the user terminal fixes at least one of a number of symbols and positions for demodulation reference signals in a slot for at least two spreading factors.