

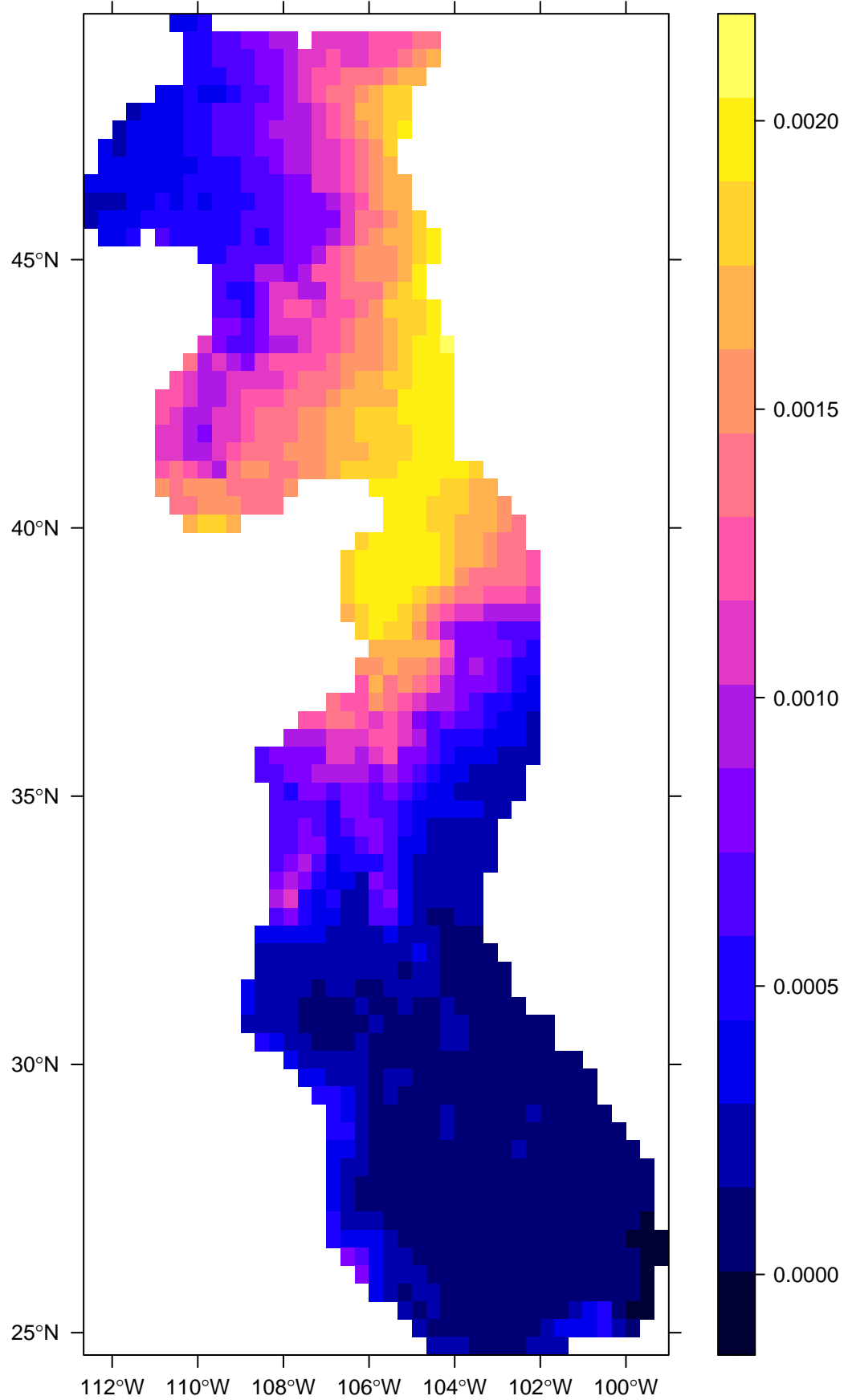
Ecosphere

Dynamic environments generate geographic fluctuations in population structure of an inland shorebird

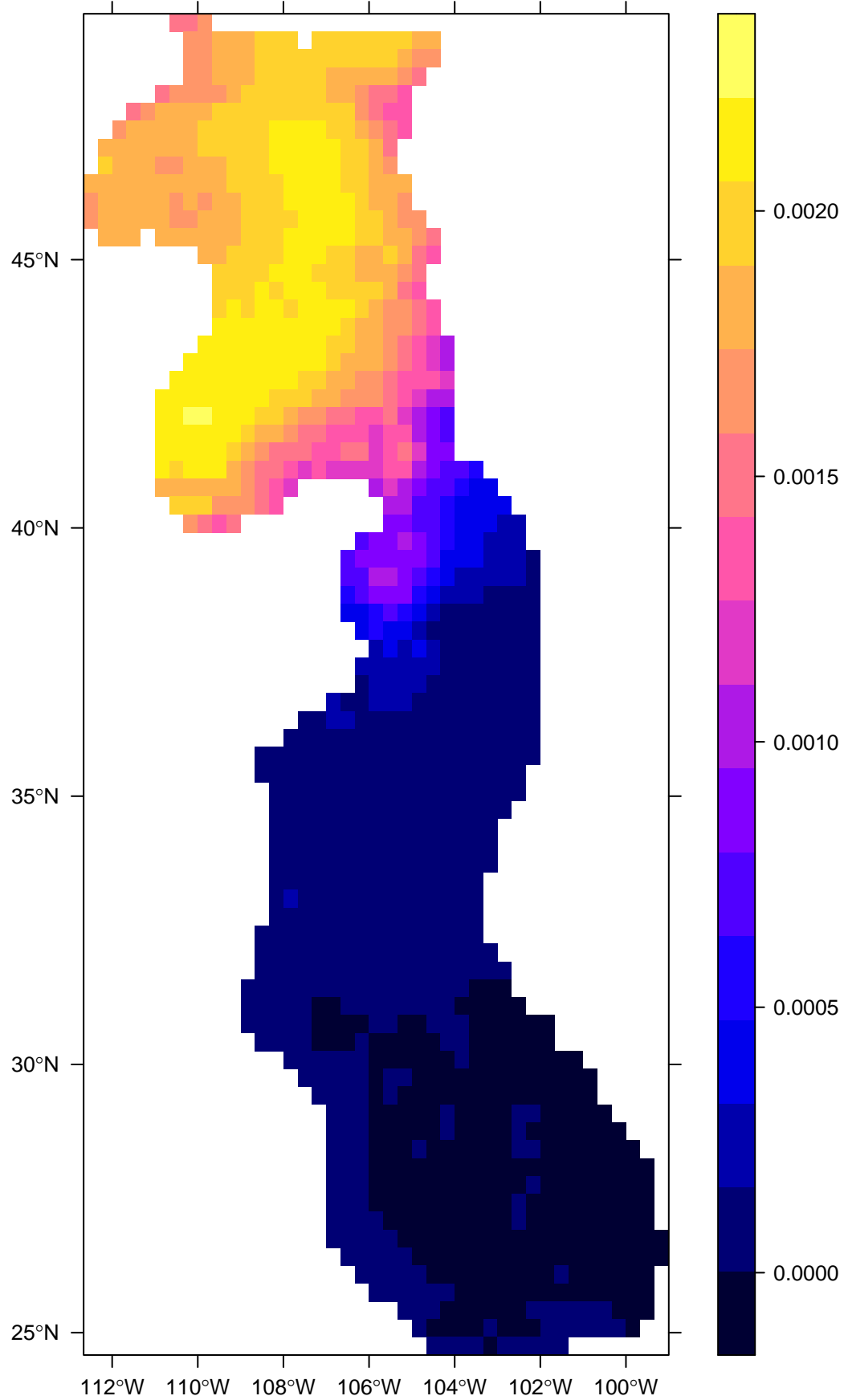
Andrea Contina, Scott W. Yanco, Allison K. Pierce, Hannah B. Vander Zanden, Craig A. Stricker, Gabriel J. Bowen, Michael B. Wunder.

Appendix S1

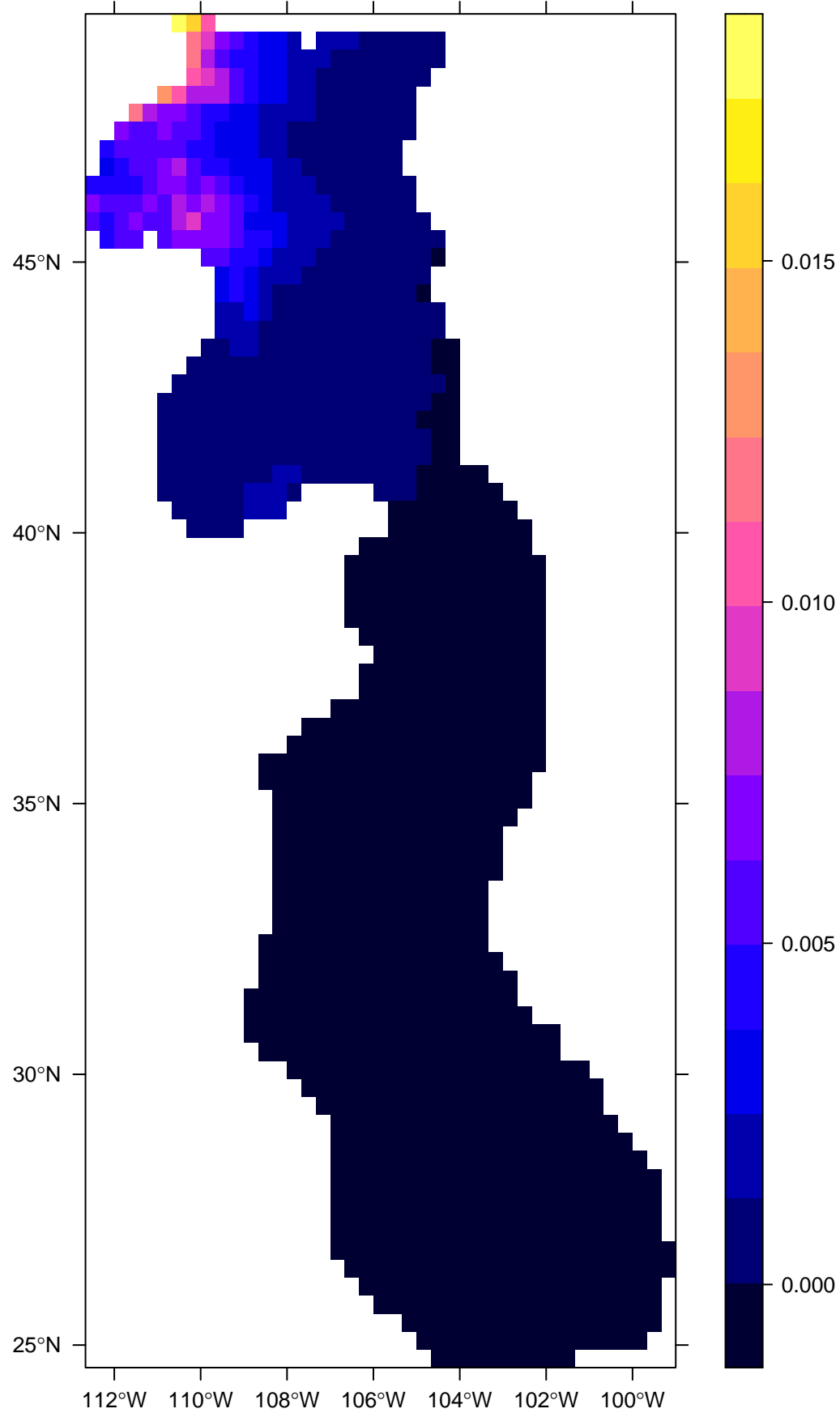
Probability Density Surface for adult_YR01_01



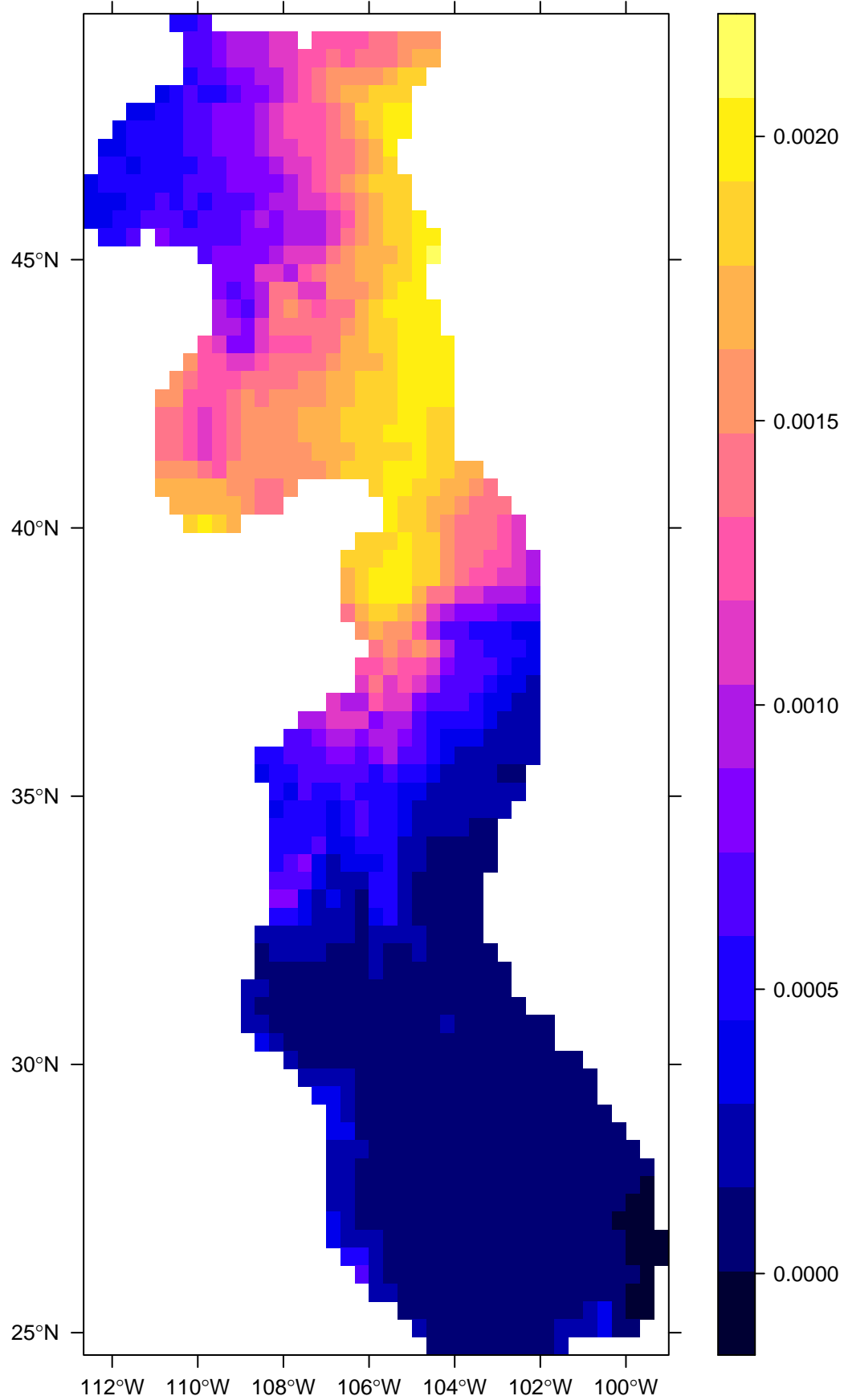
Probability Density Surface for adult_YR01_02



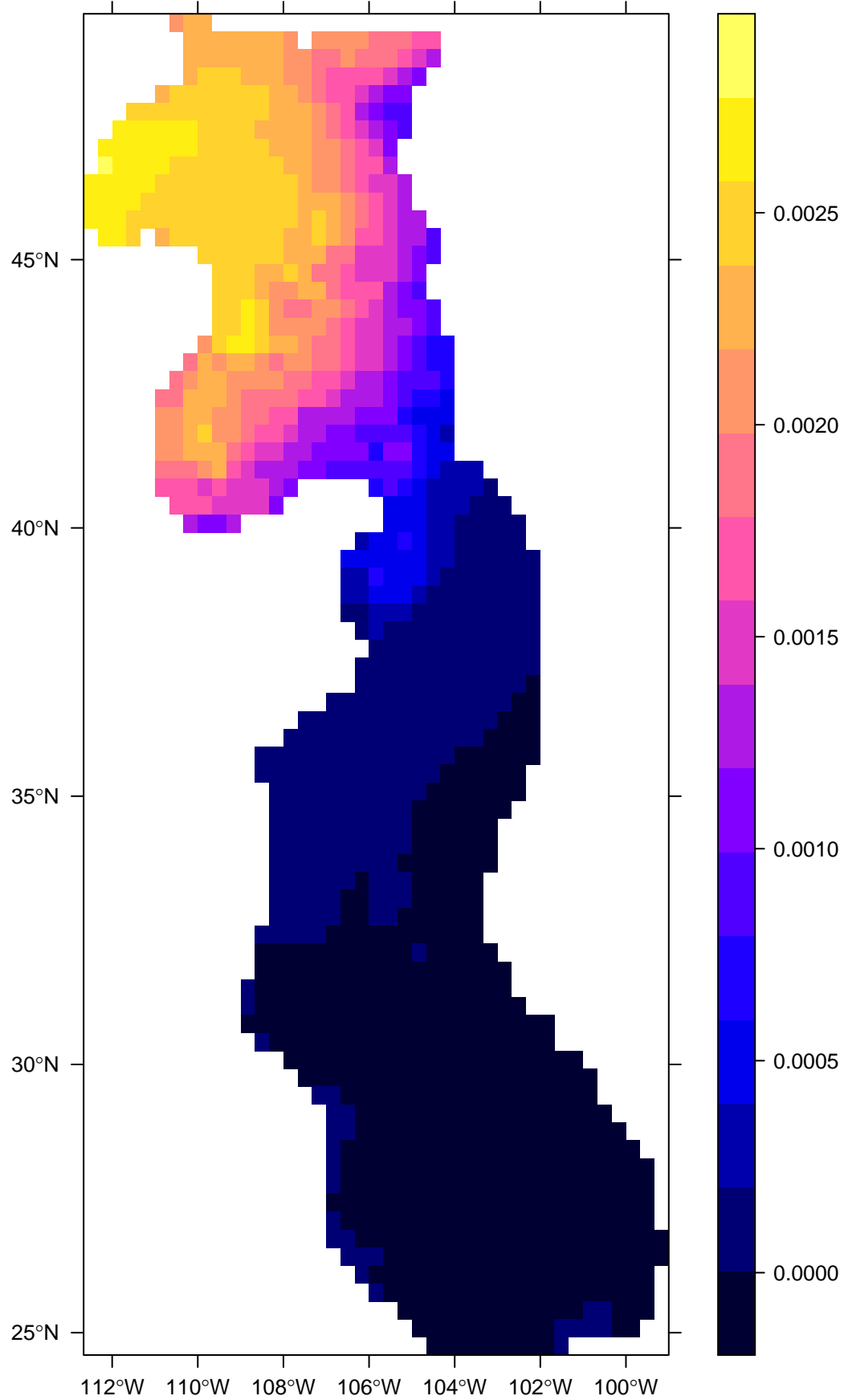
Probability Density Surface for adult_YR01_03

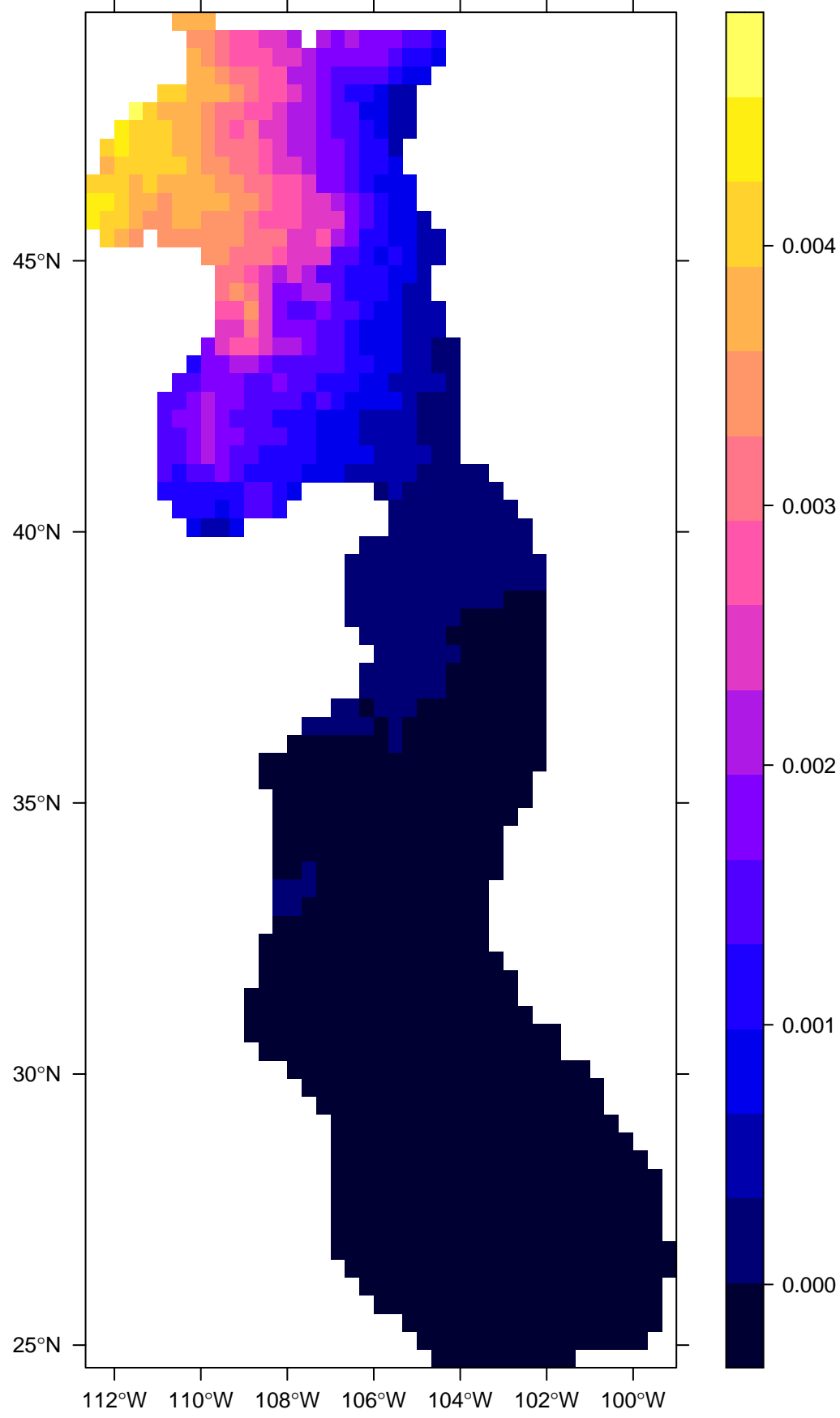


Probability Density Surface for adult_YR01_04

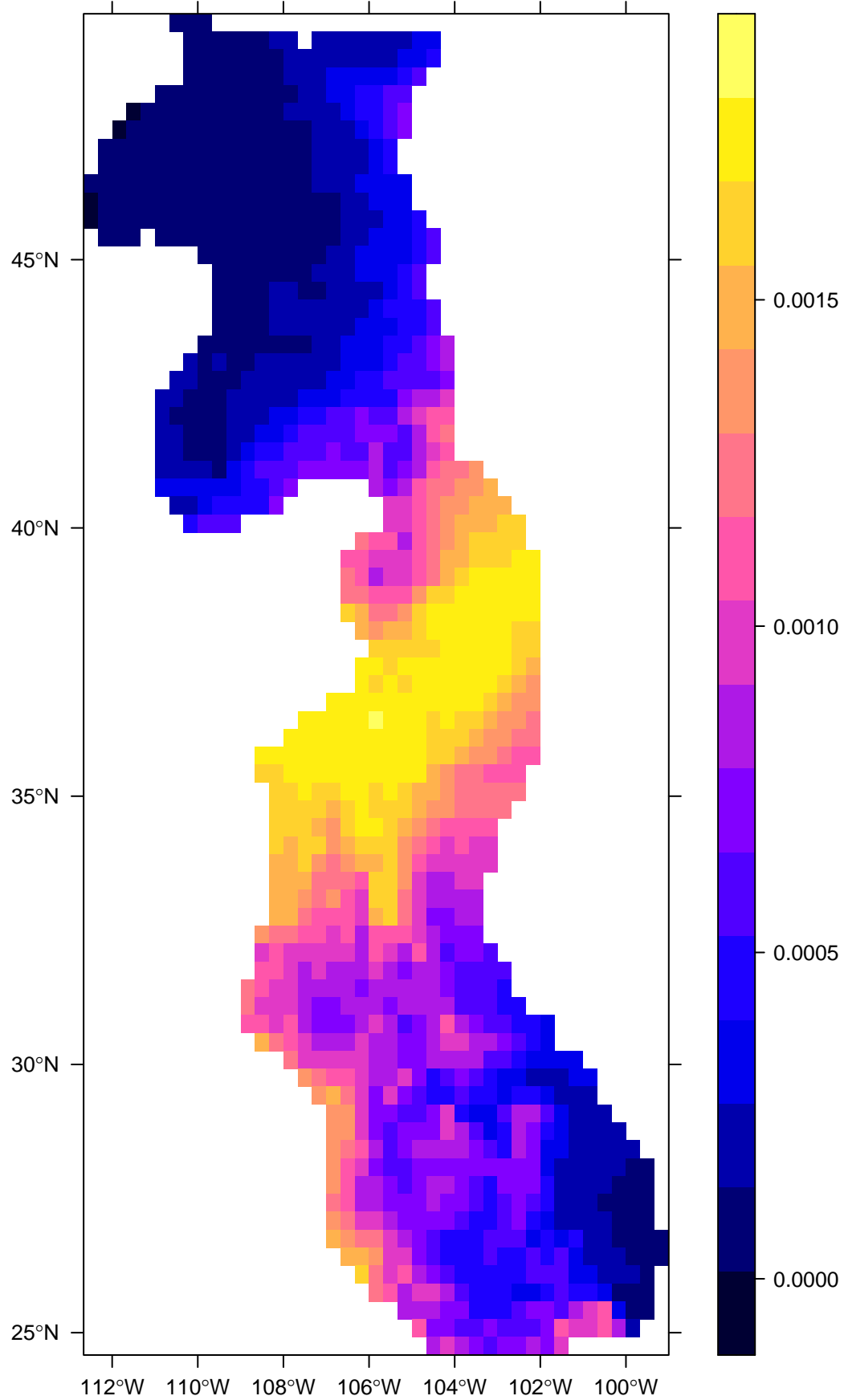


Probability Density Surface for adult_YR01_05

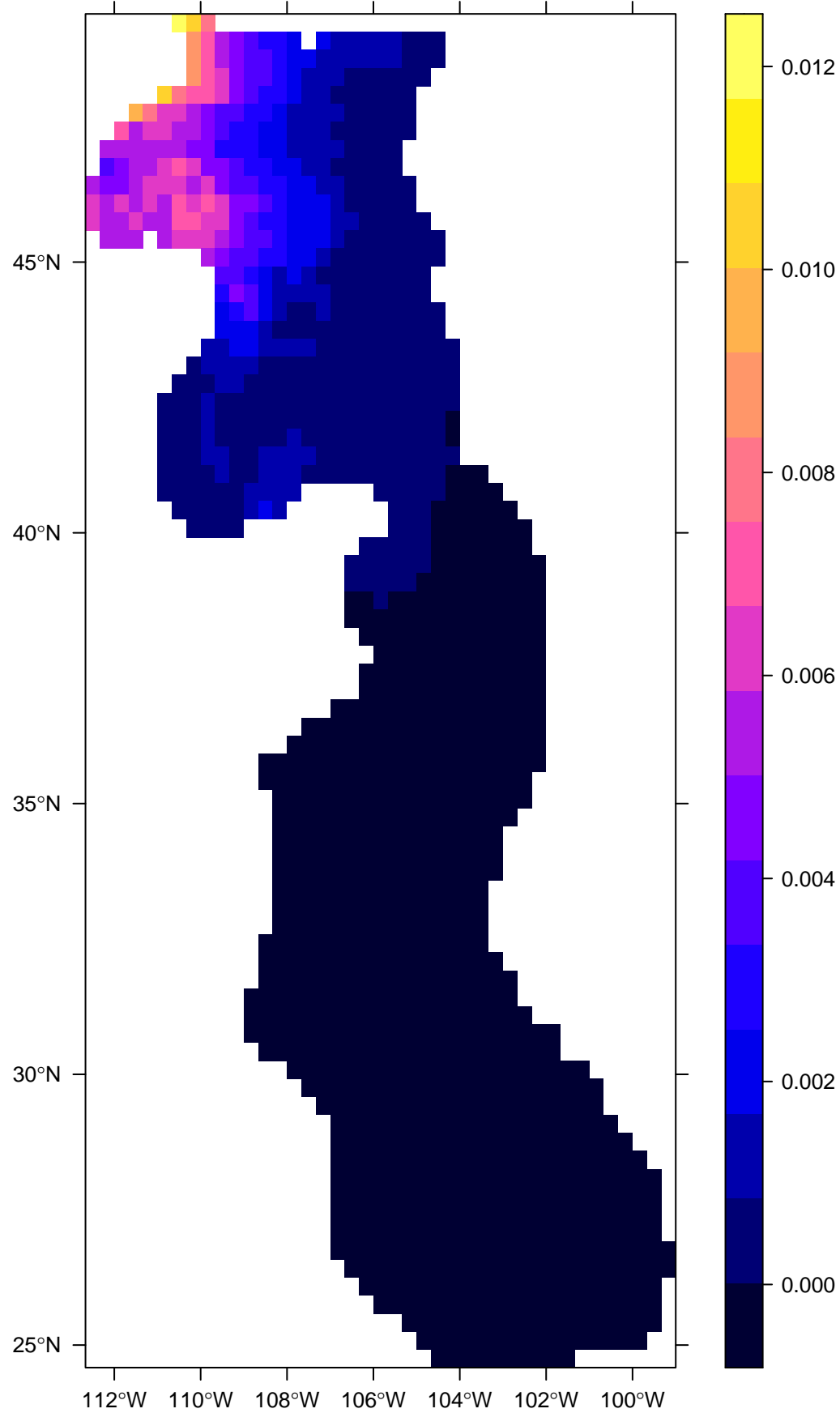




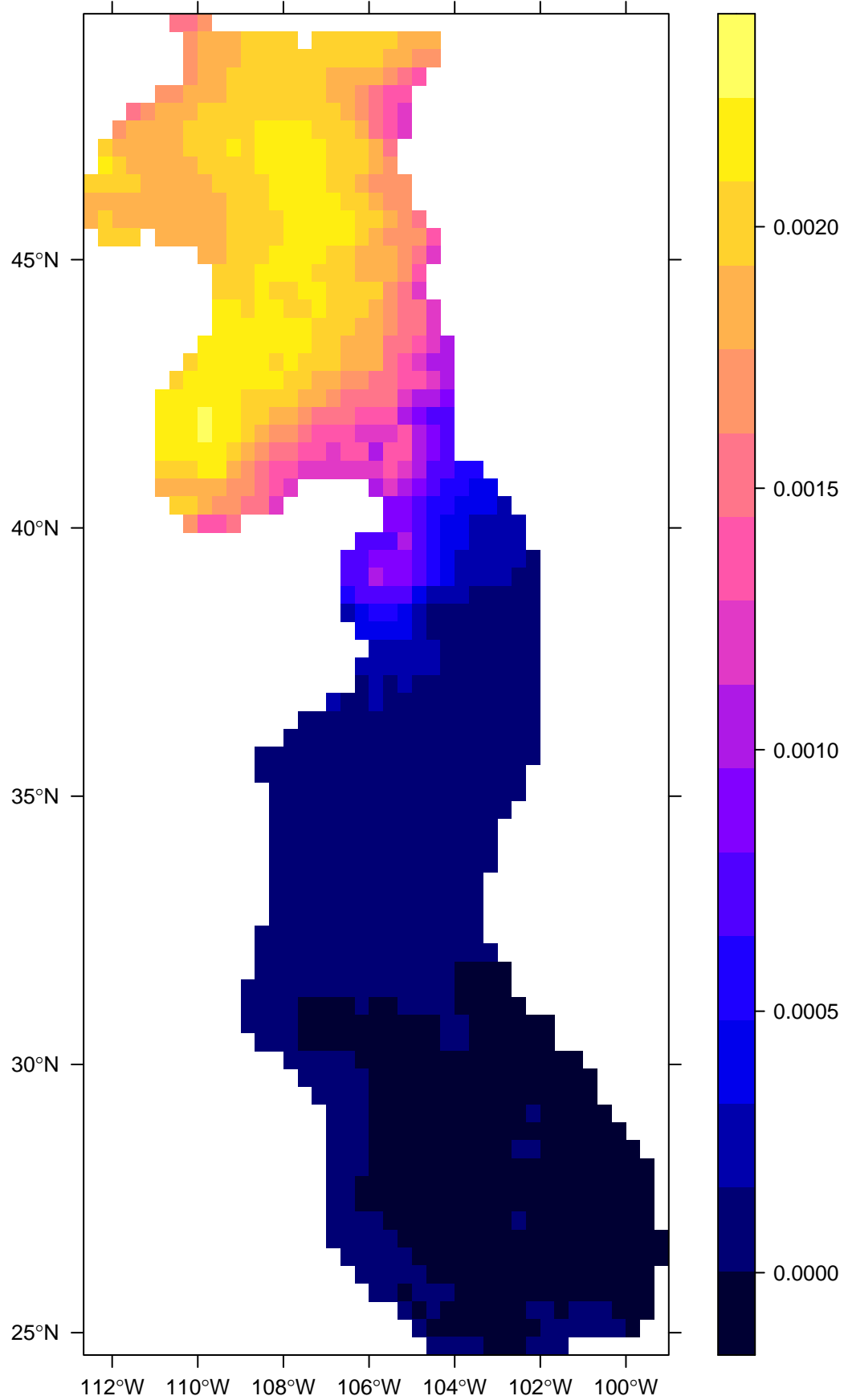
Probability Density Surface for adult_YR01_07



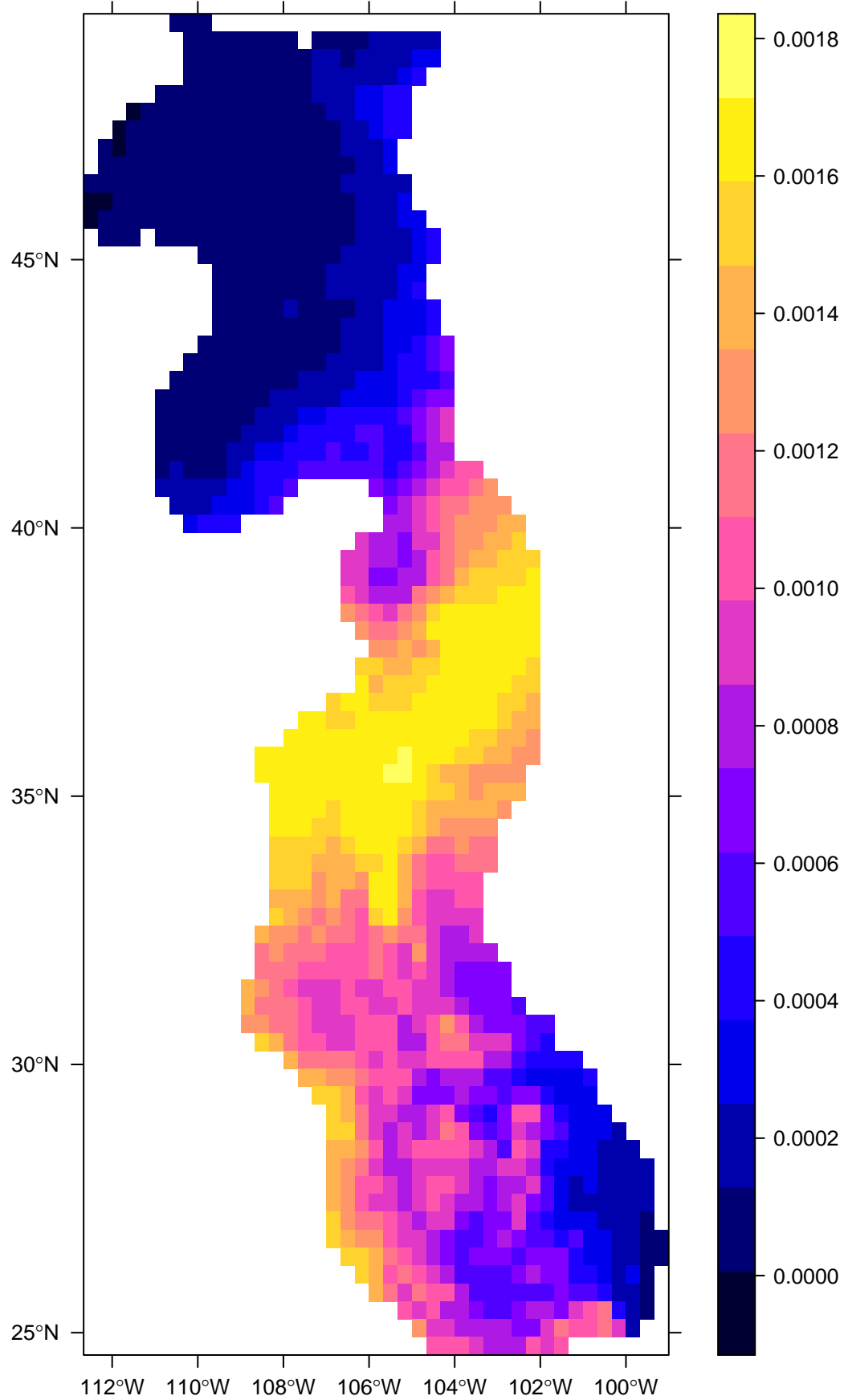
Probability Density Surface for adult_YR01_08



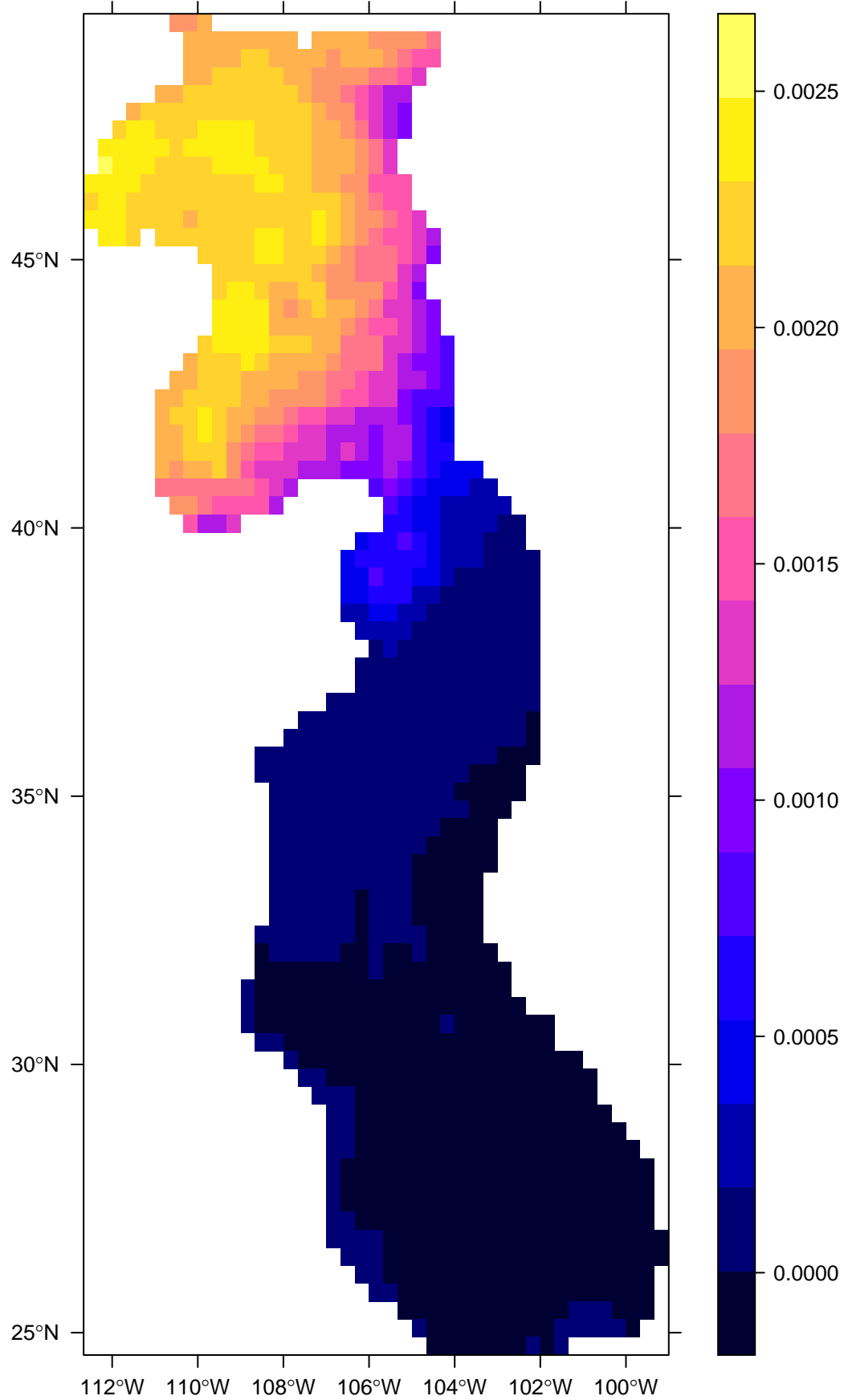
Probability Density Surface for adult_YR01_09



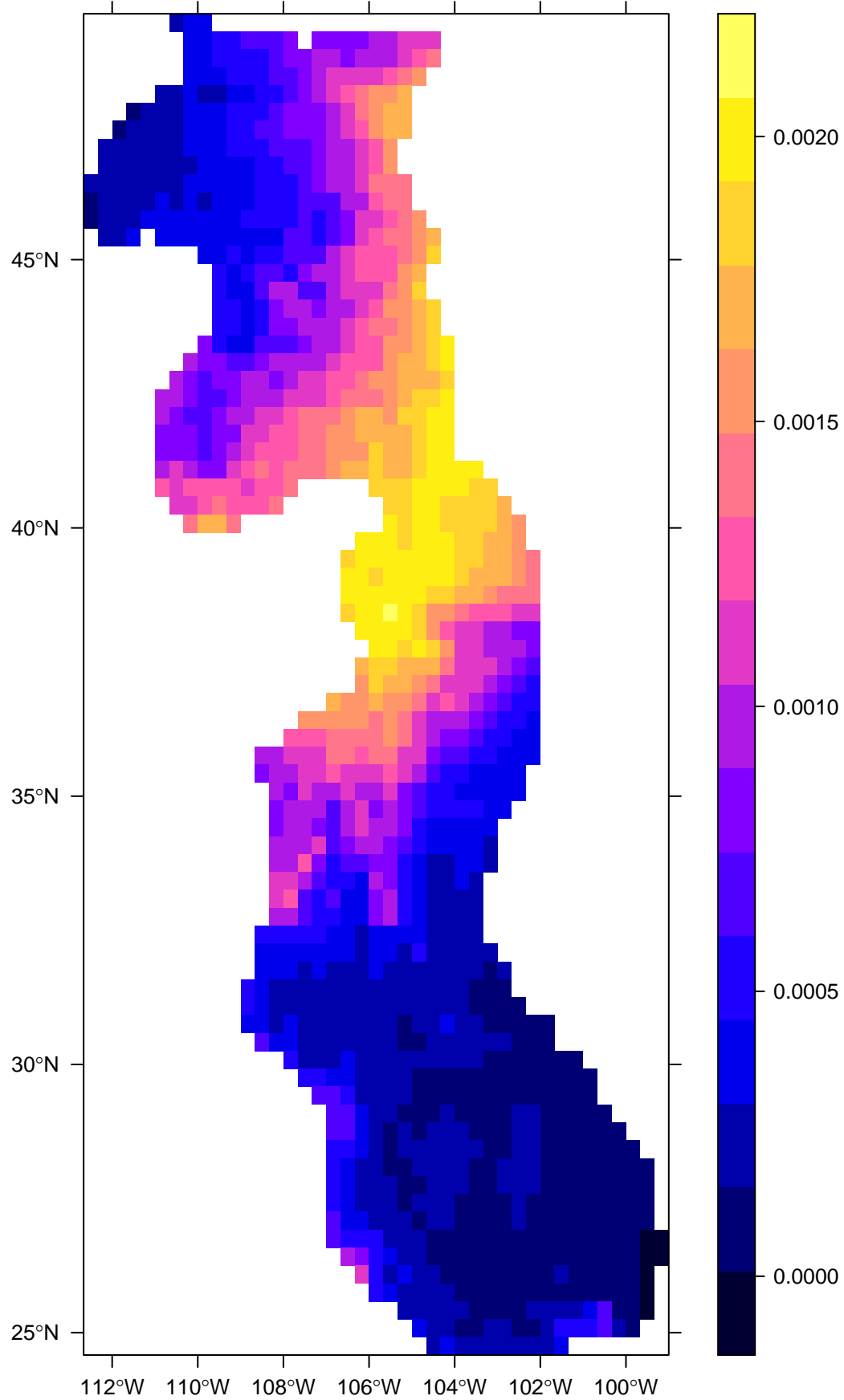
Probability Density Surface for adult_YR01_10



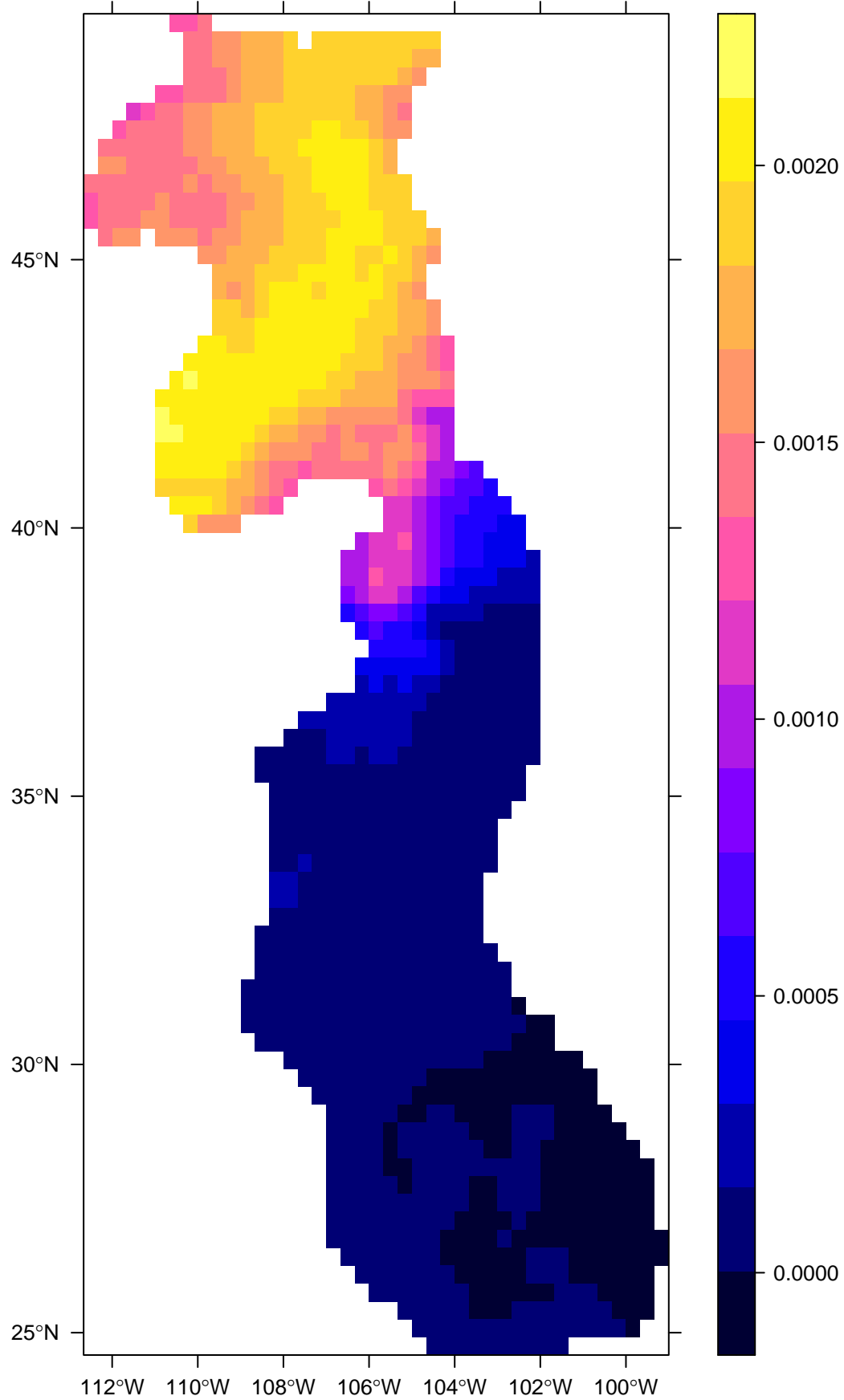
Probability Density Surface for adult_YR01_11



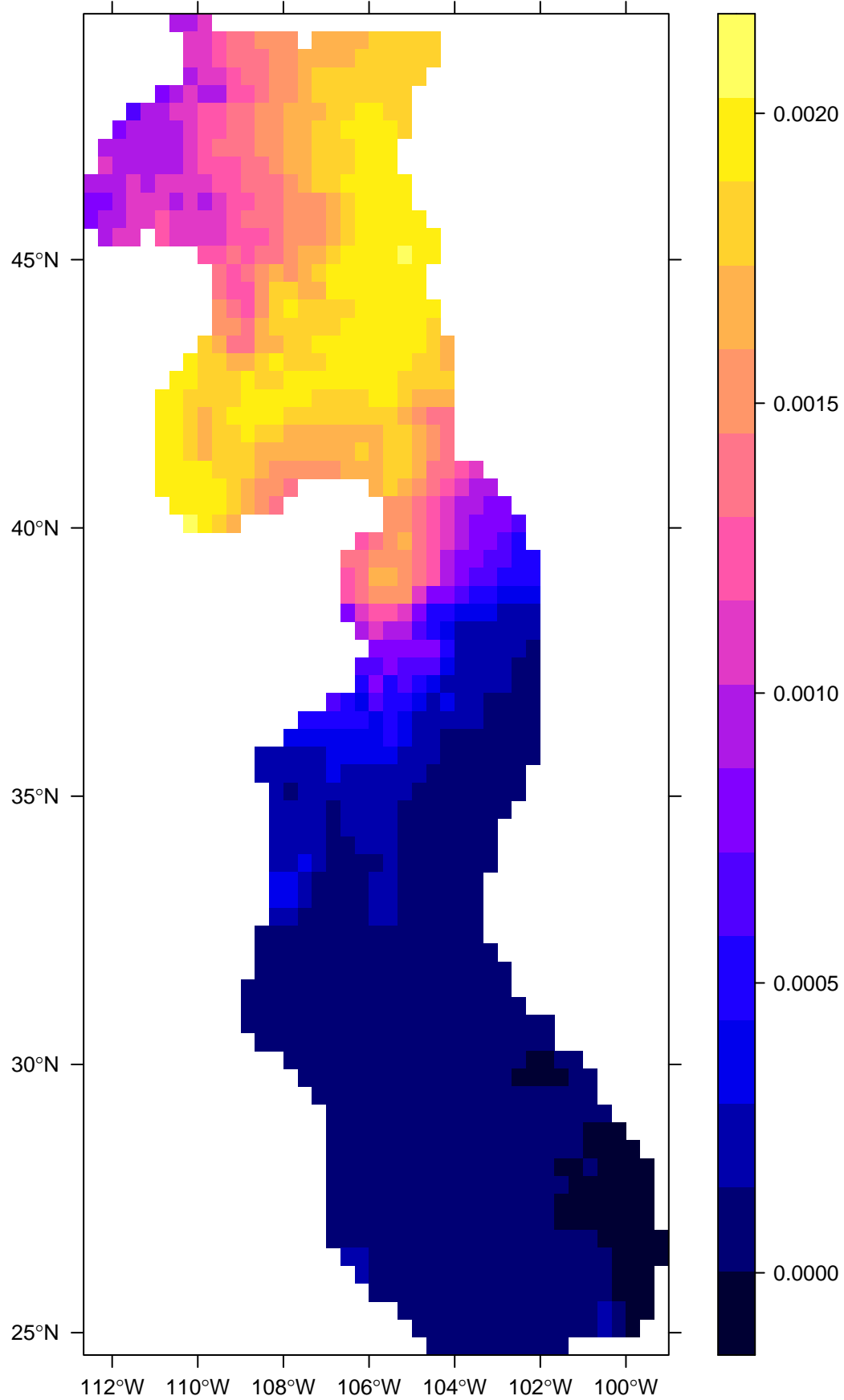
Probability Density Surface for adult_YR01_12



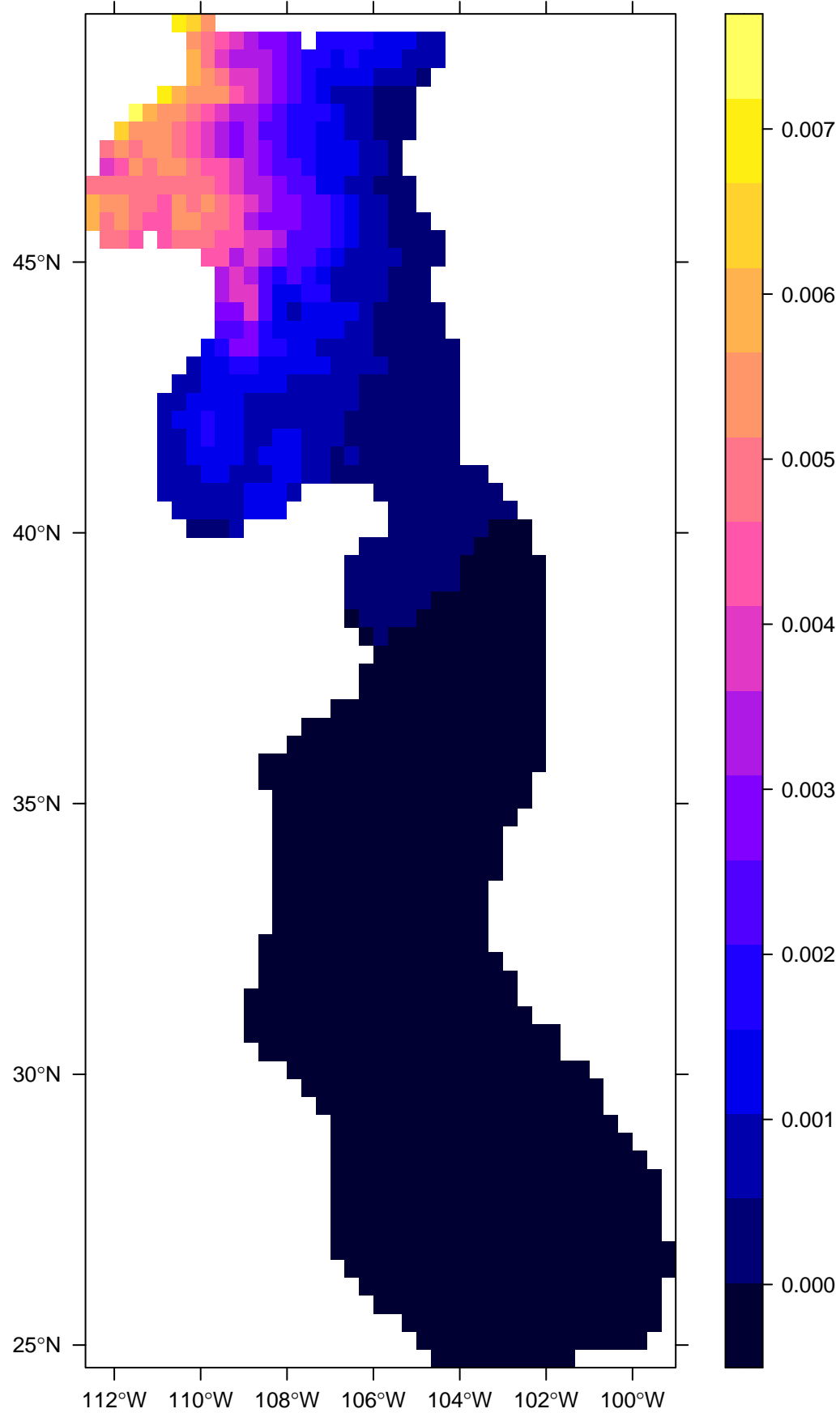
Probability Density Surface for adult_YR01_13



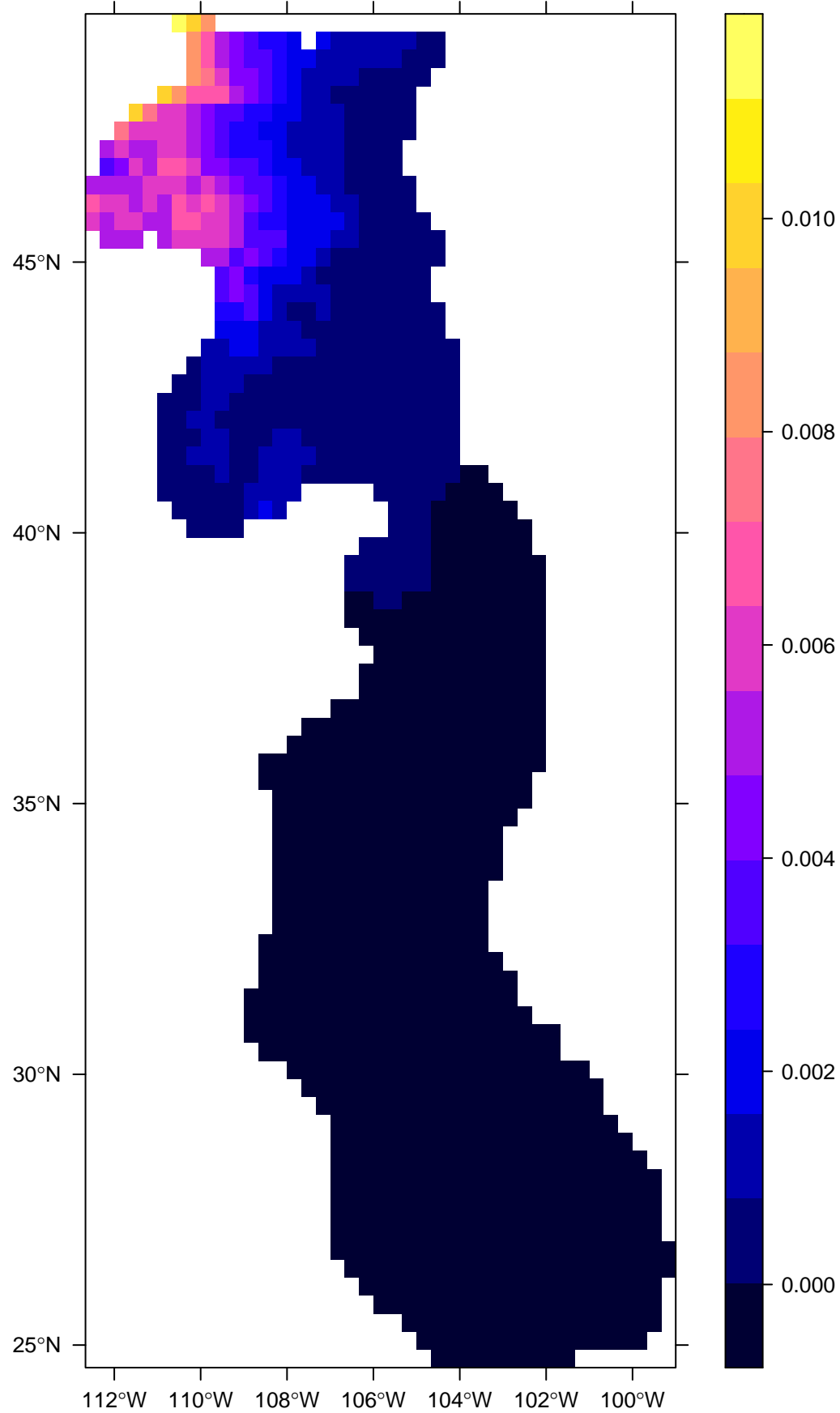
Probability Density Surface for adult_YR01_14



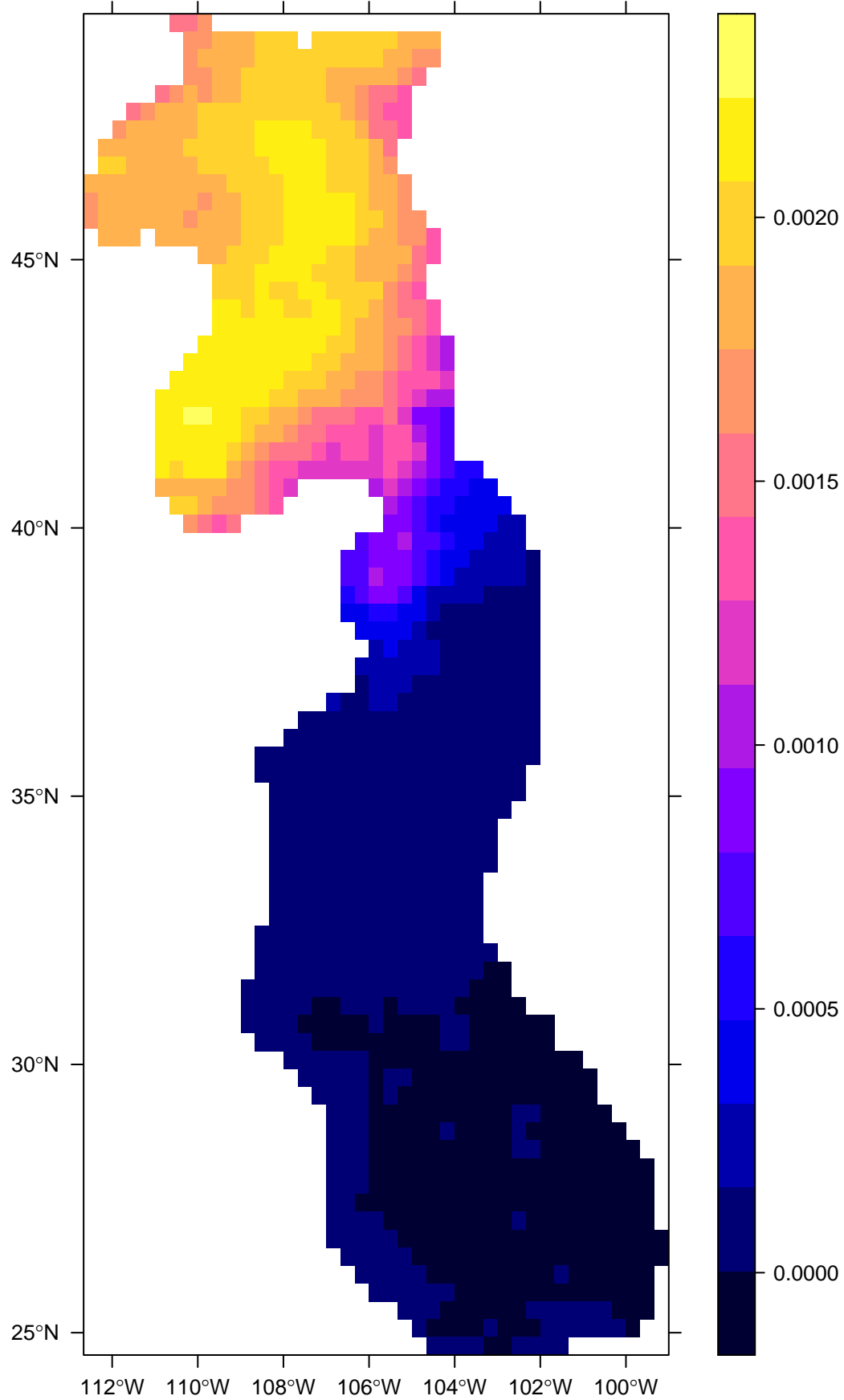
Probability Density Surface for adult_YR01_15



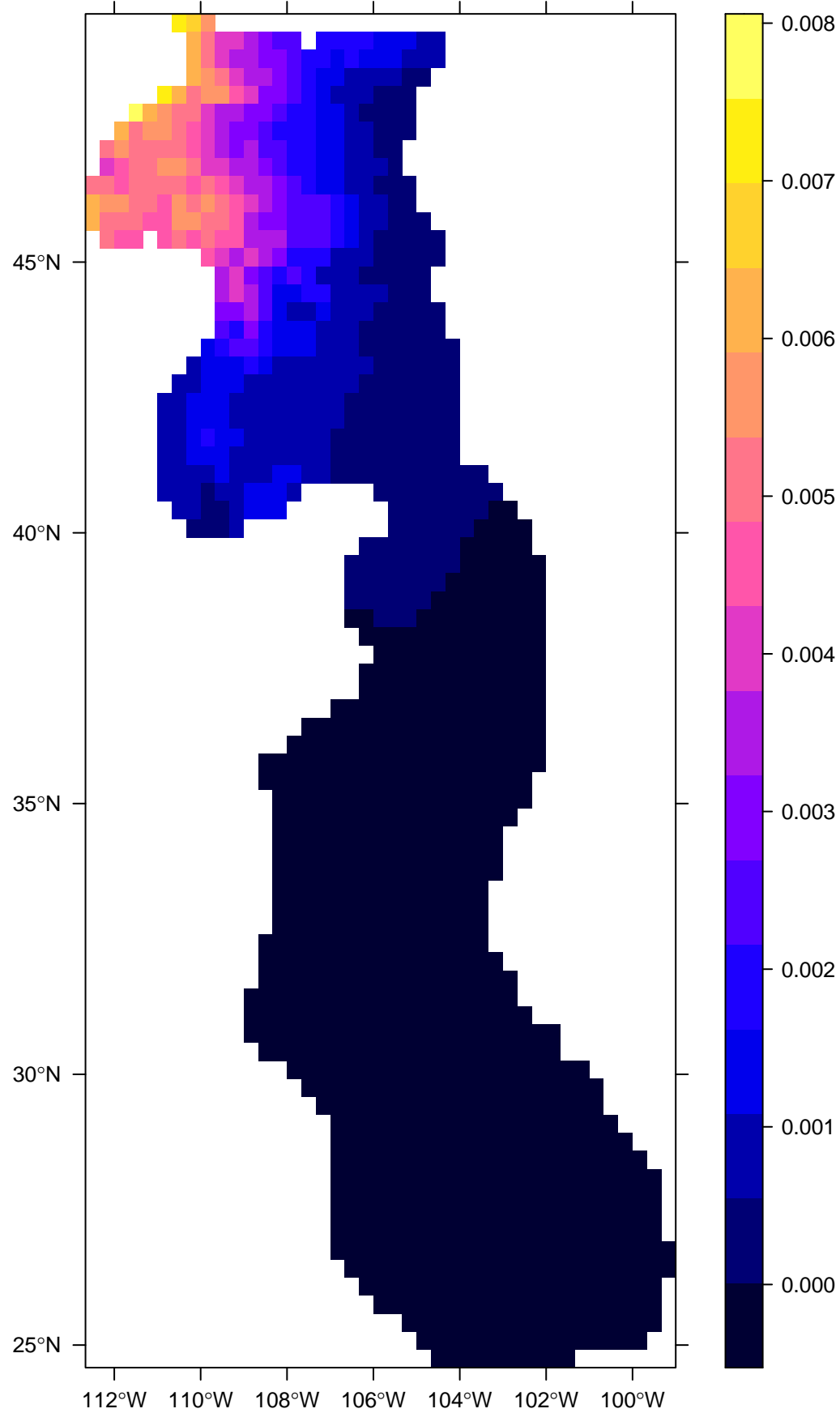
Probability Density Surface for adult_YR01_16



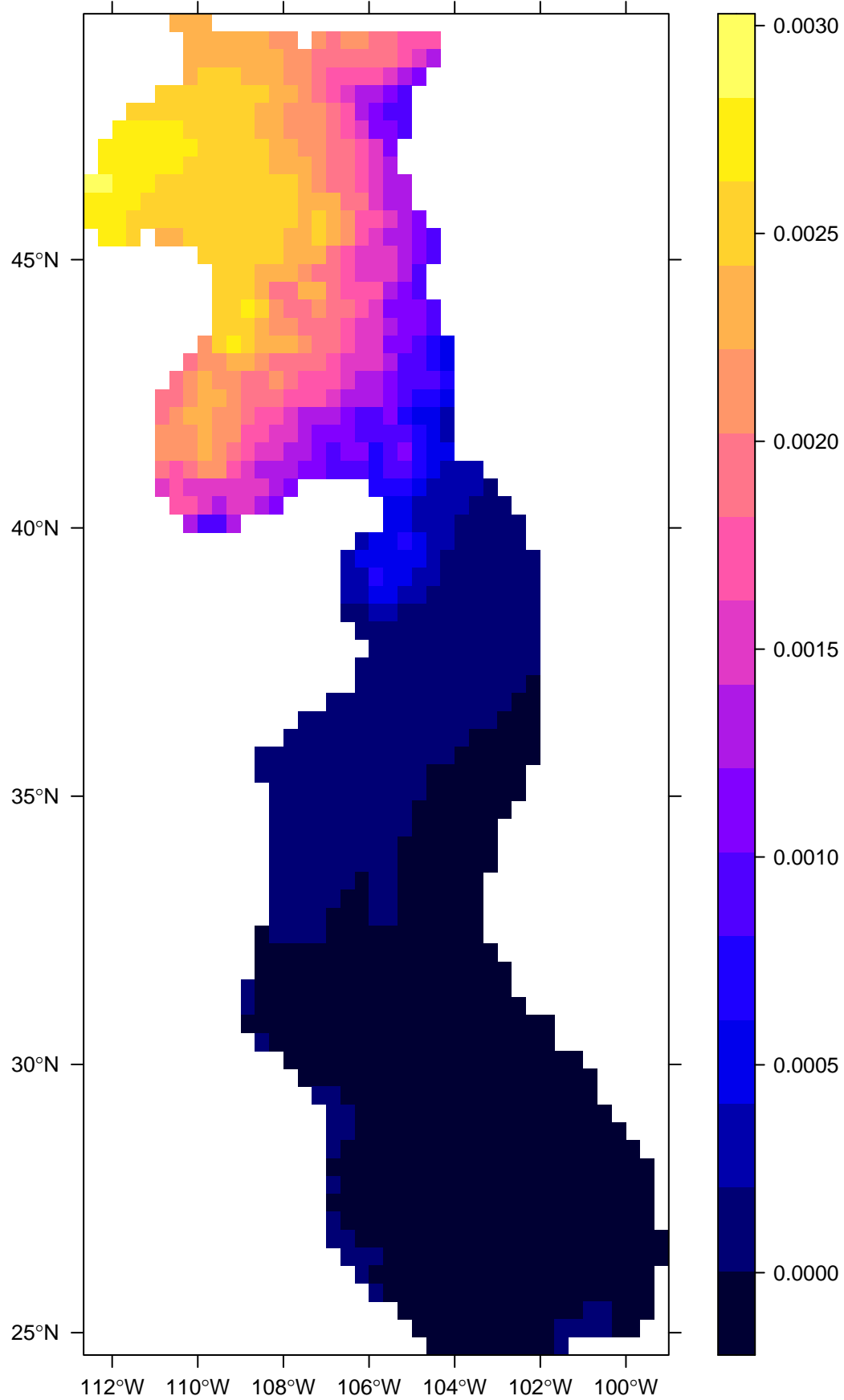
Probability Density Surface for adult_YR01_17



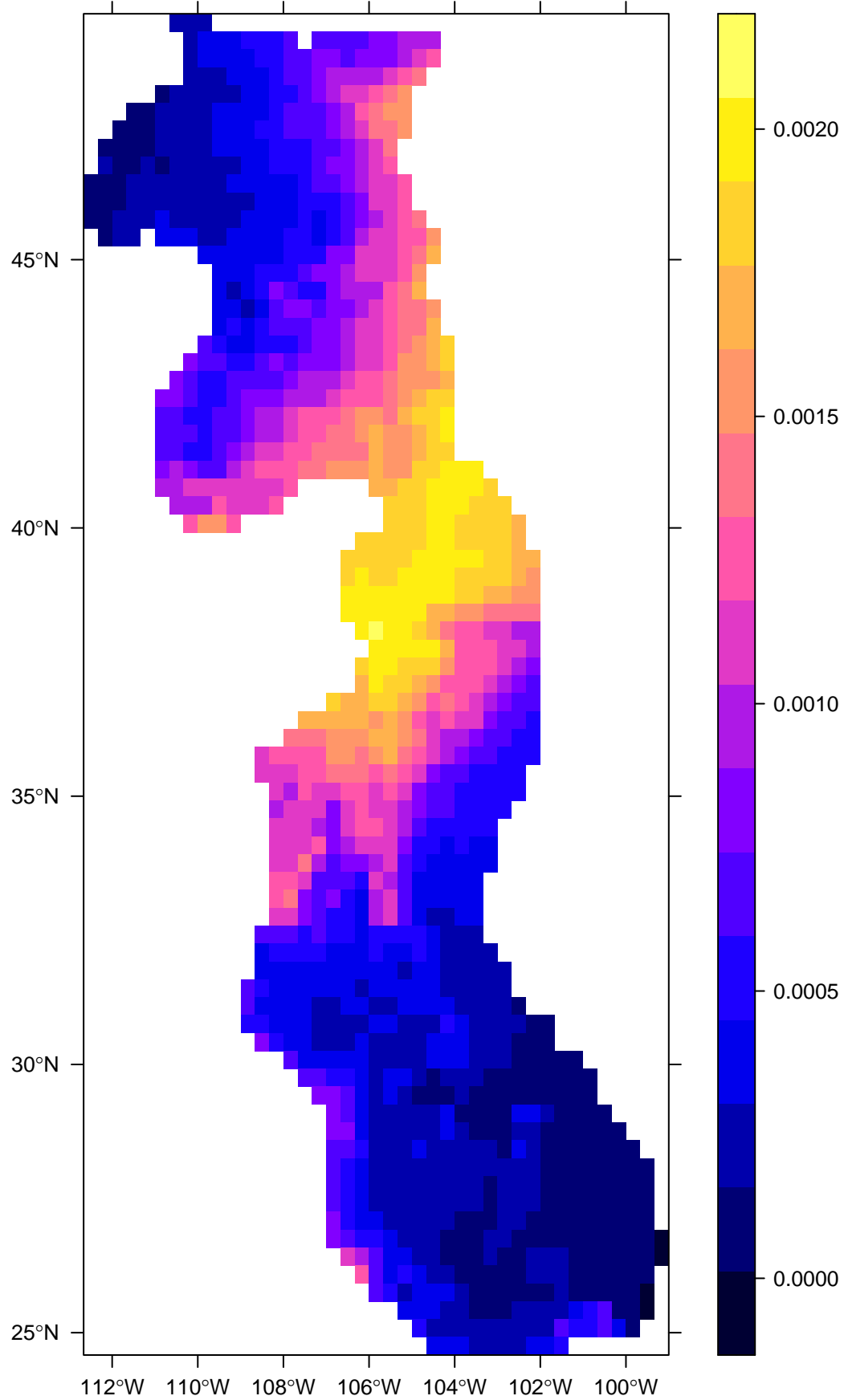
Probability Density Surface for adult_YR01_18



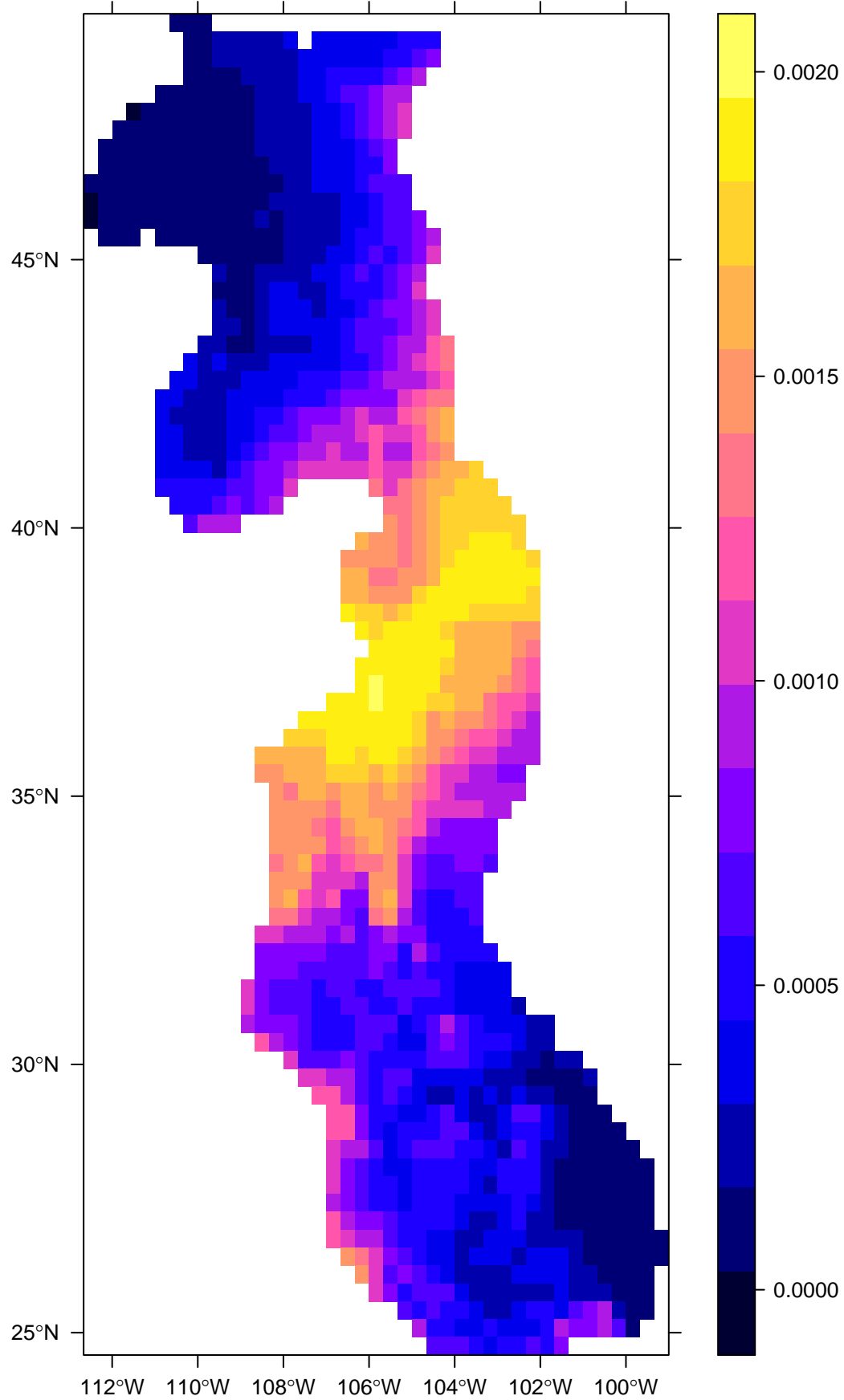
Probability Density Surface for adult_YR01_19



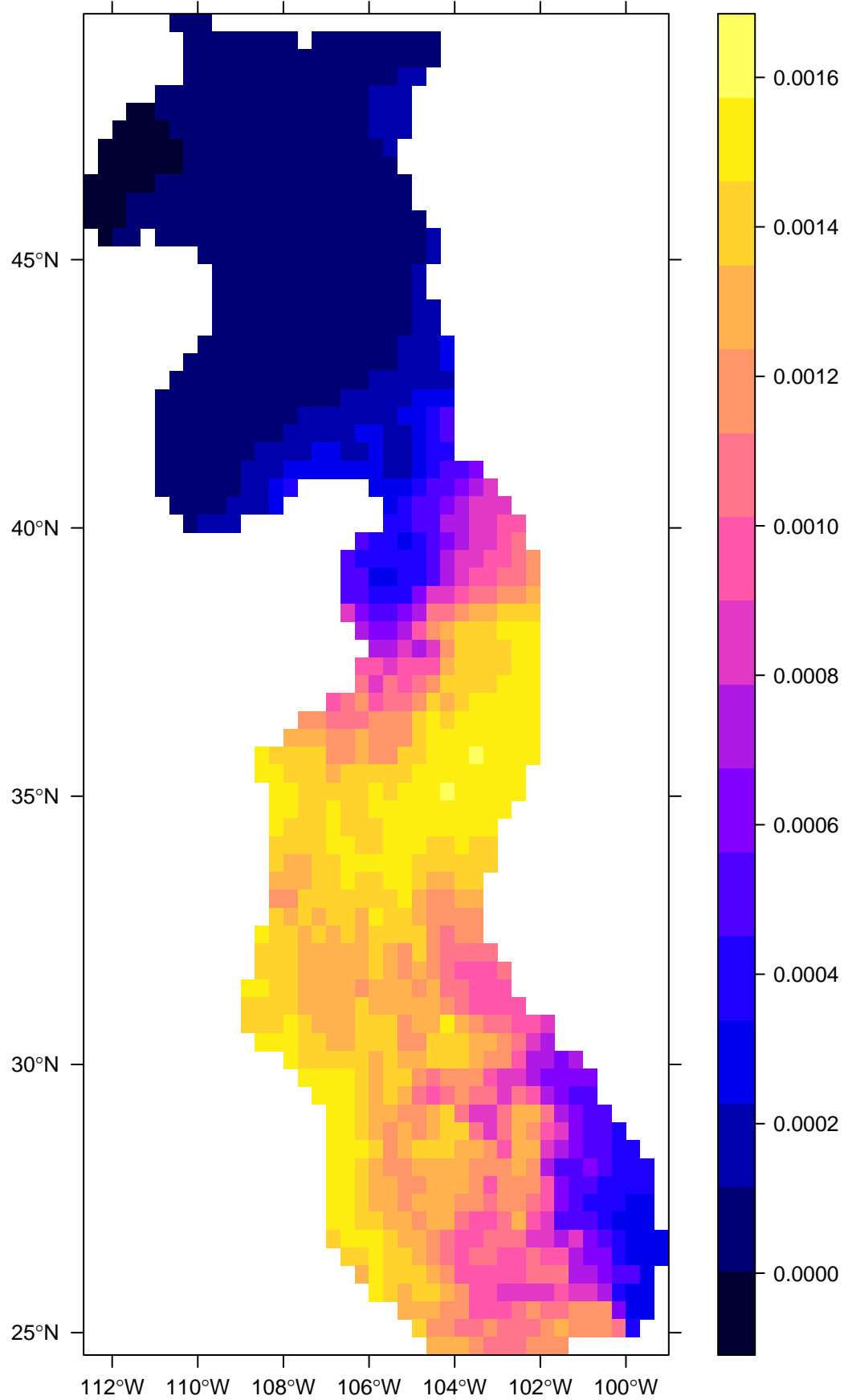
Probability Density Surface for adult_YR01_20



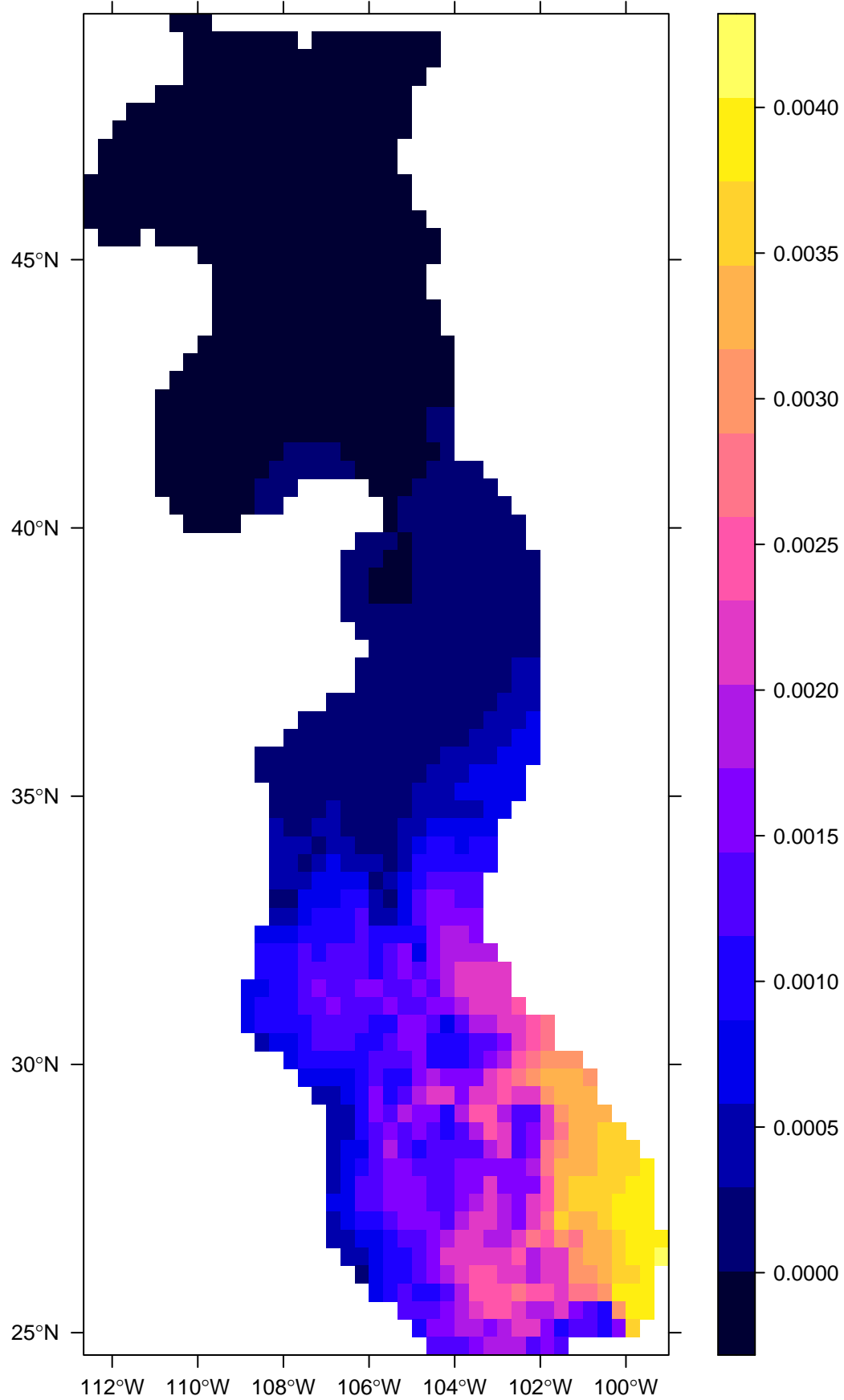
Probability Density Surface for adult_YR01_21



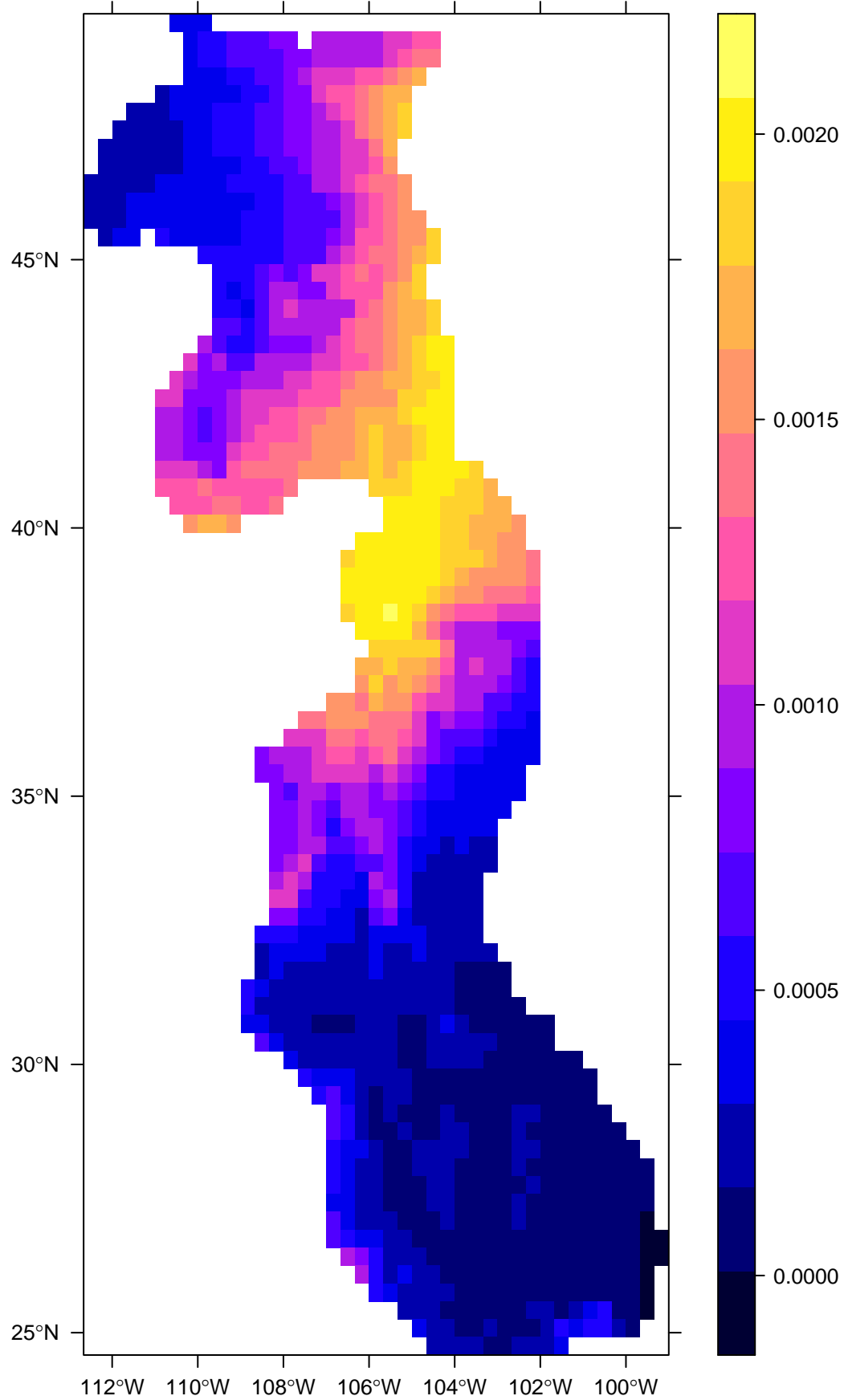
Probability Density Surface for adult_YR01_22



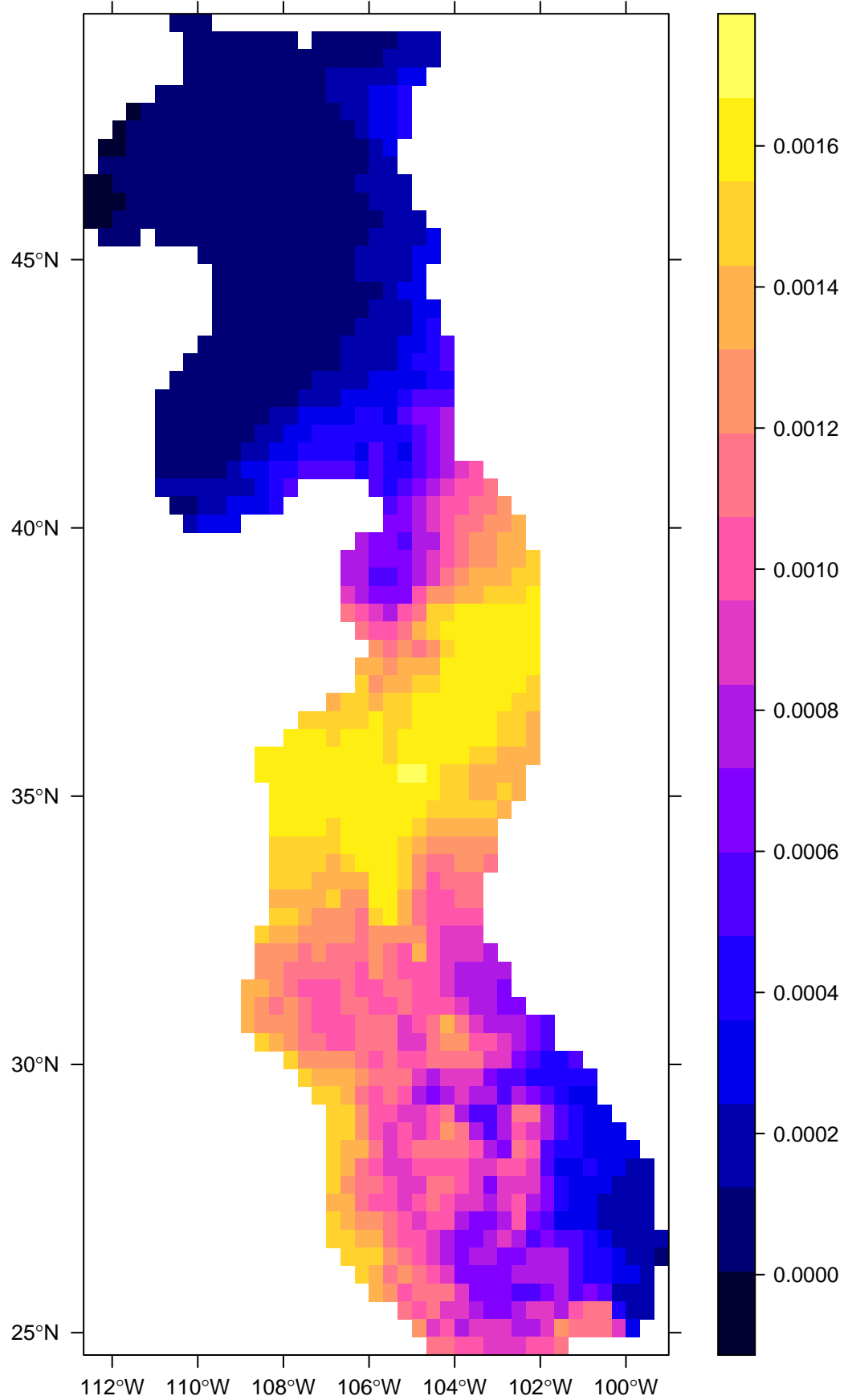
Probability Density Surface for adult_YR01_23



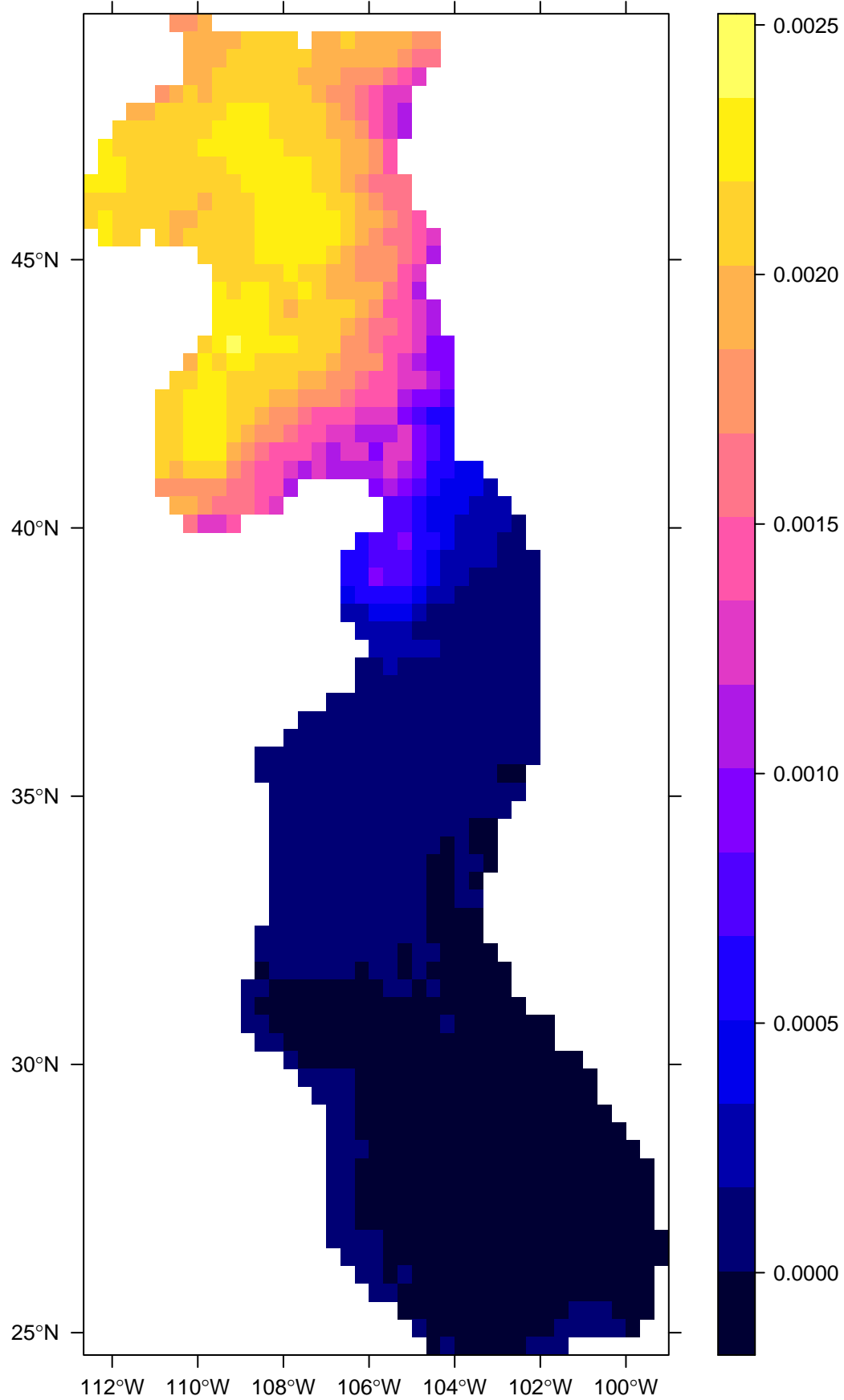
Probability Density Surface for adult_YR01_24



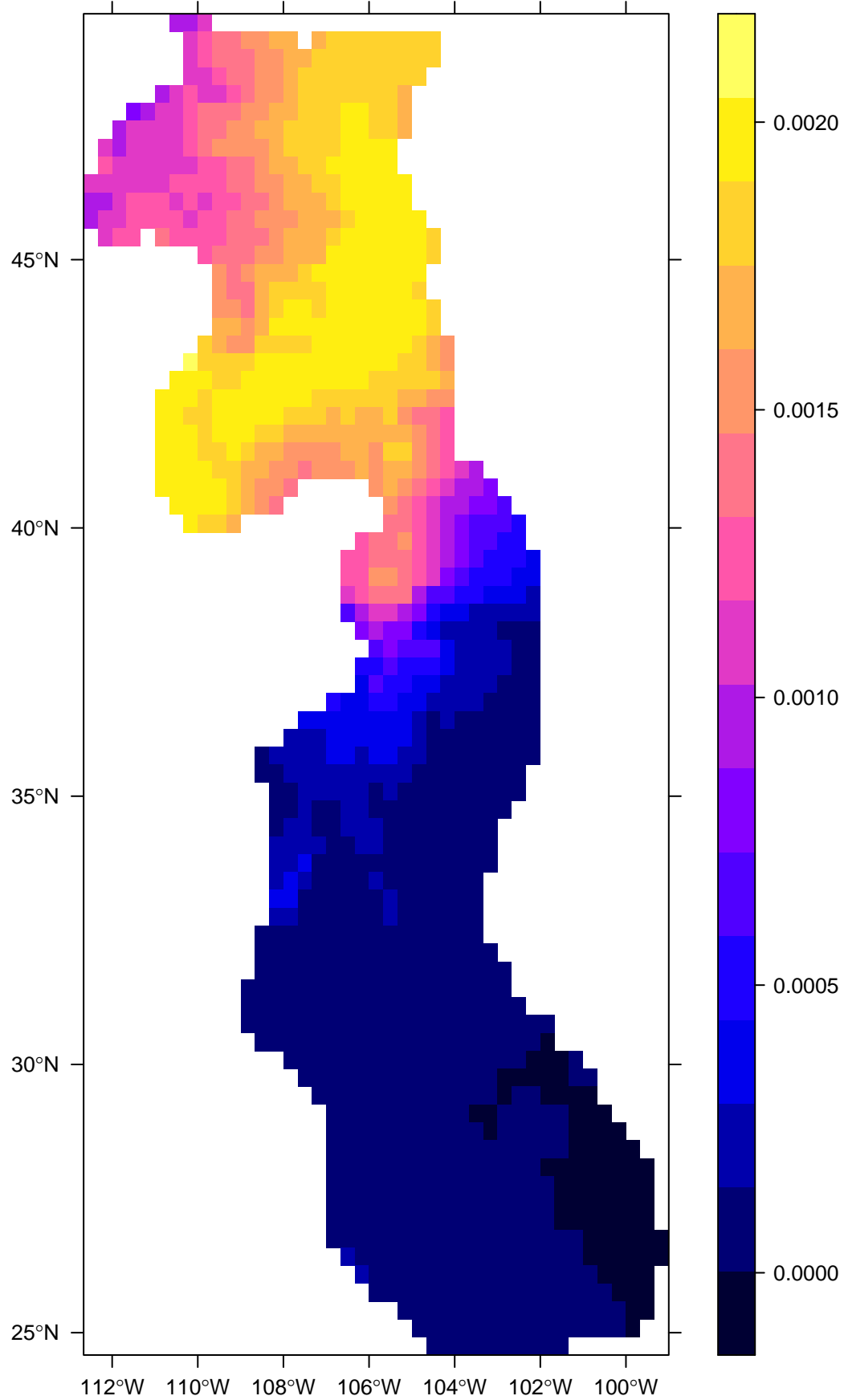
Probability Density Surface for adult_YR01_25



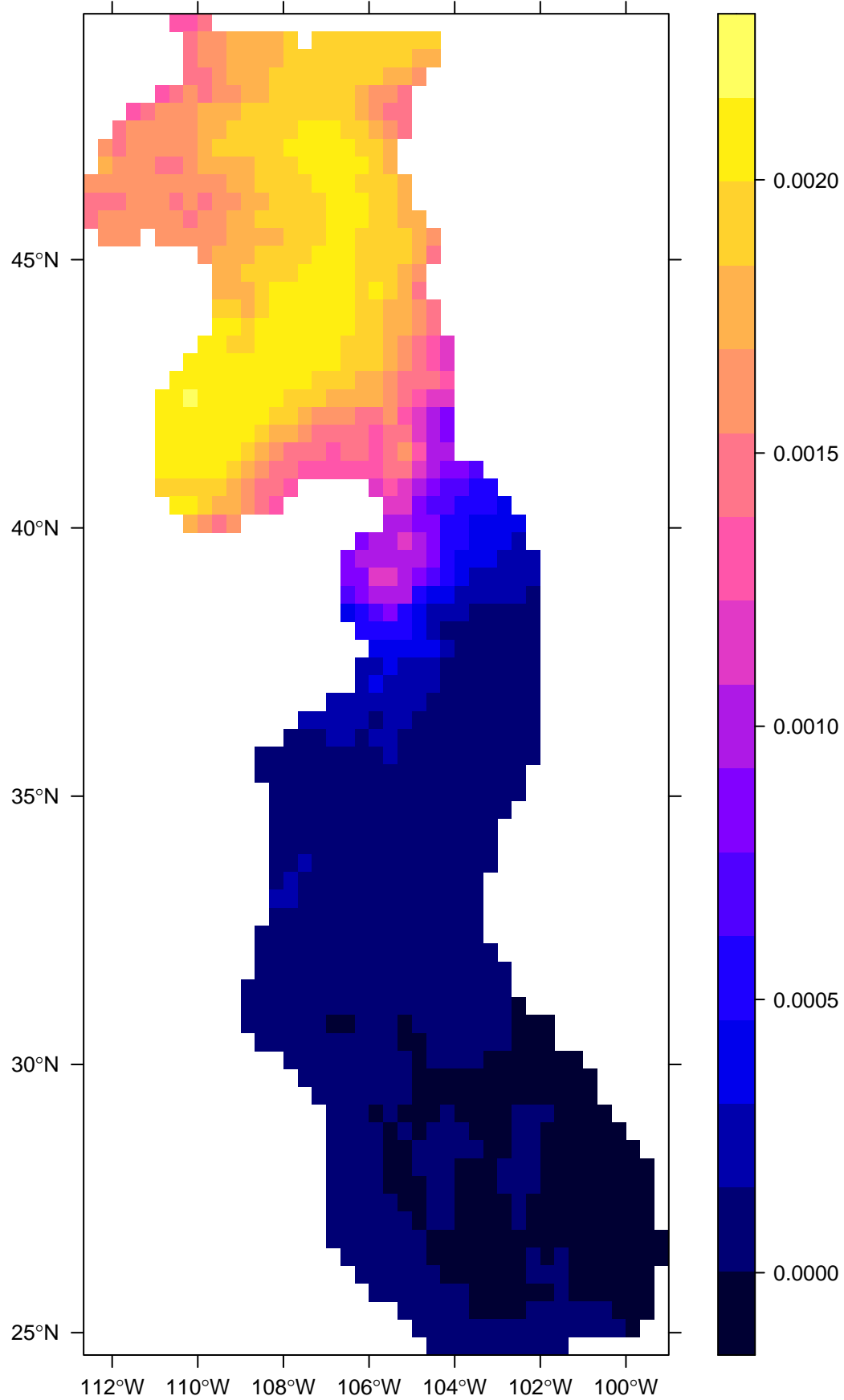
Probability Density Surface for adult_YR01_26



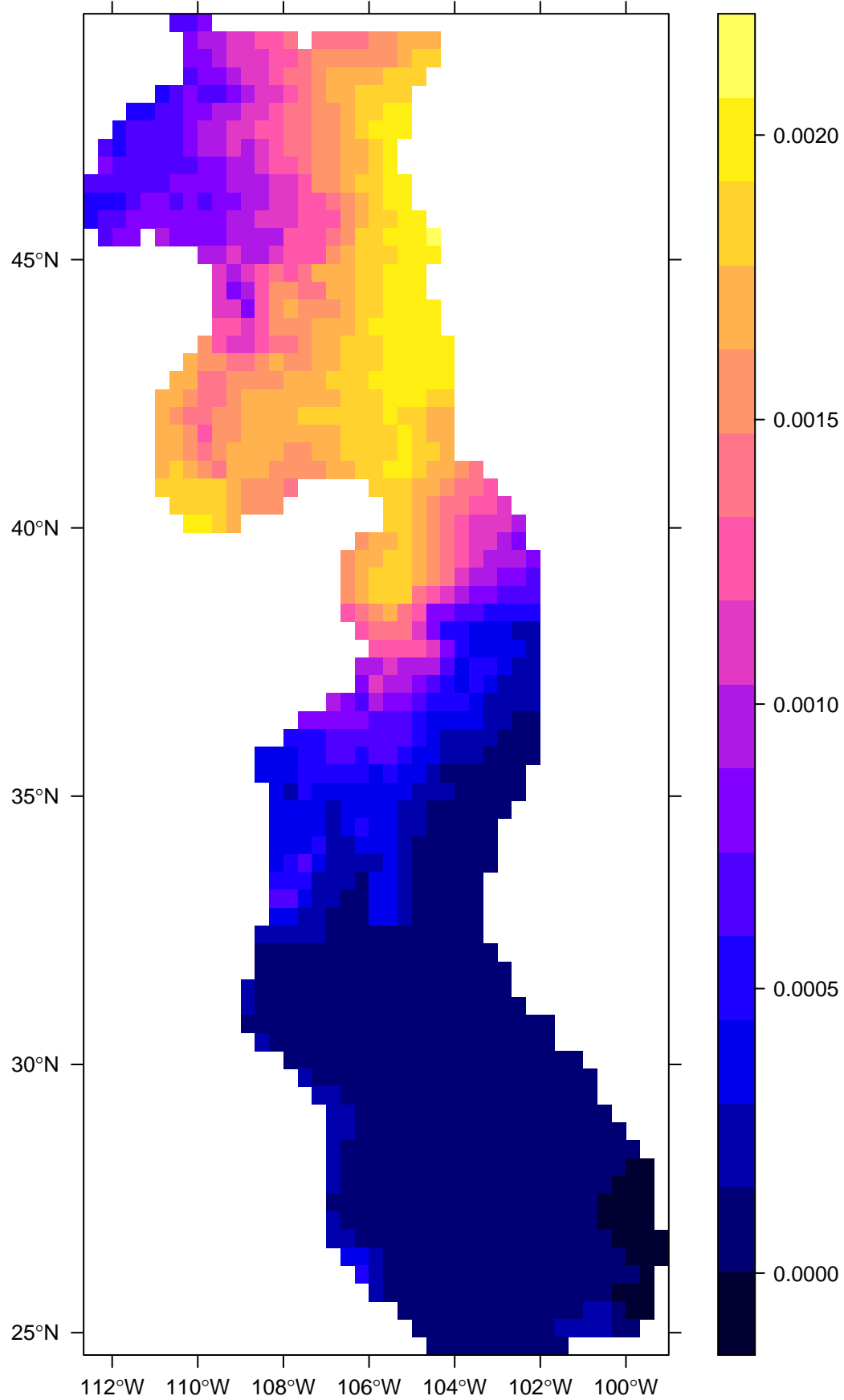
Probability Density Surface for adult_YR01_27



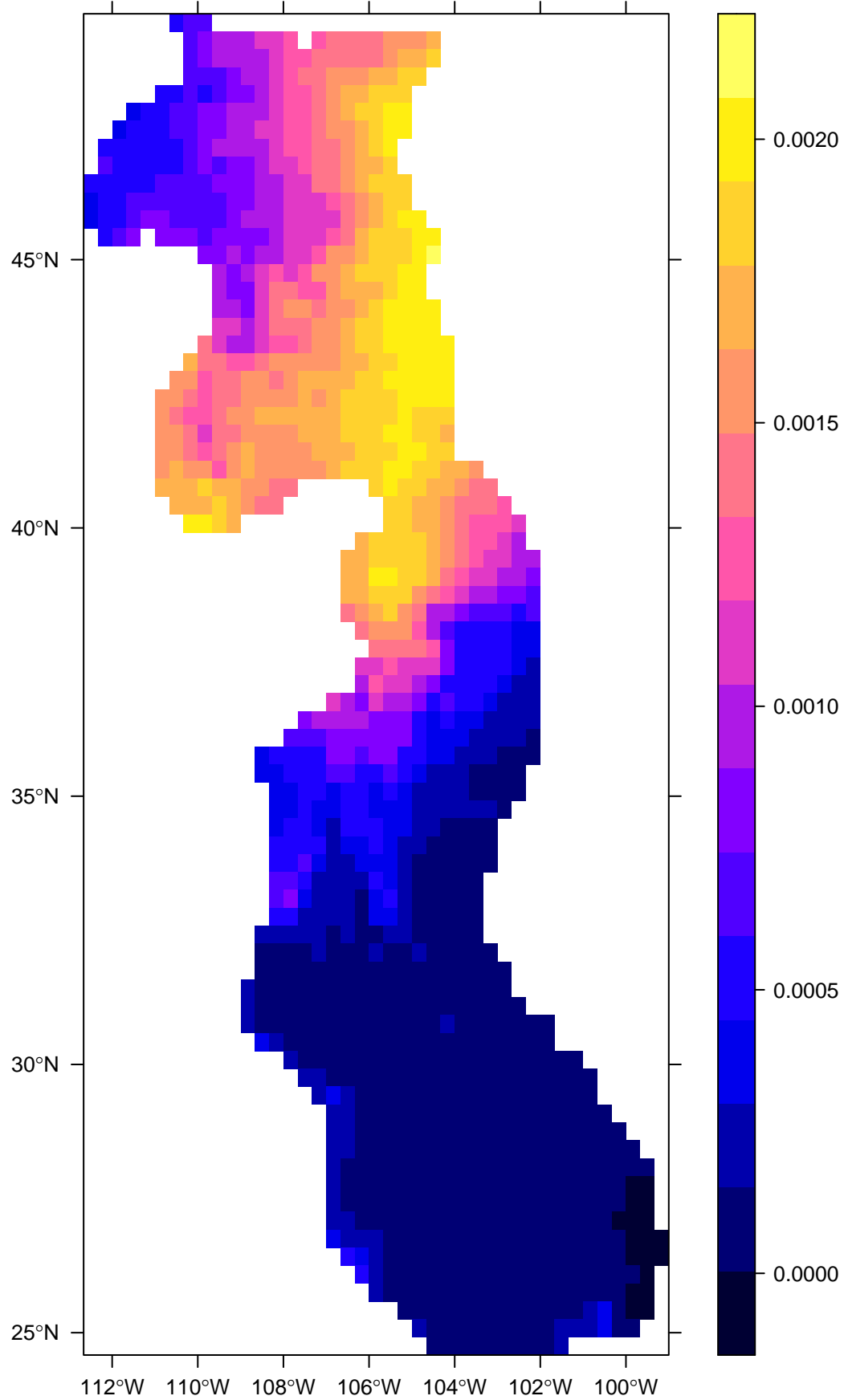
Probability Density Surface for adult_YR01_28



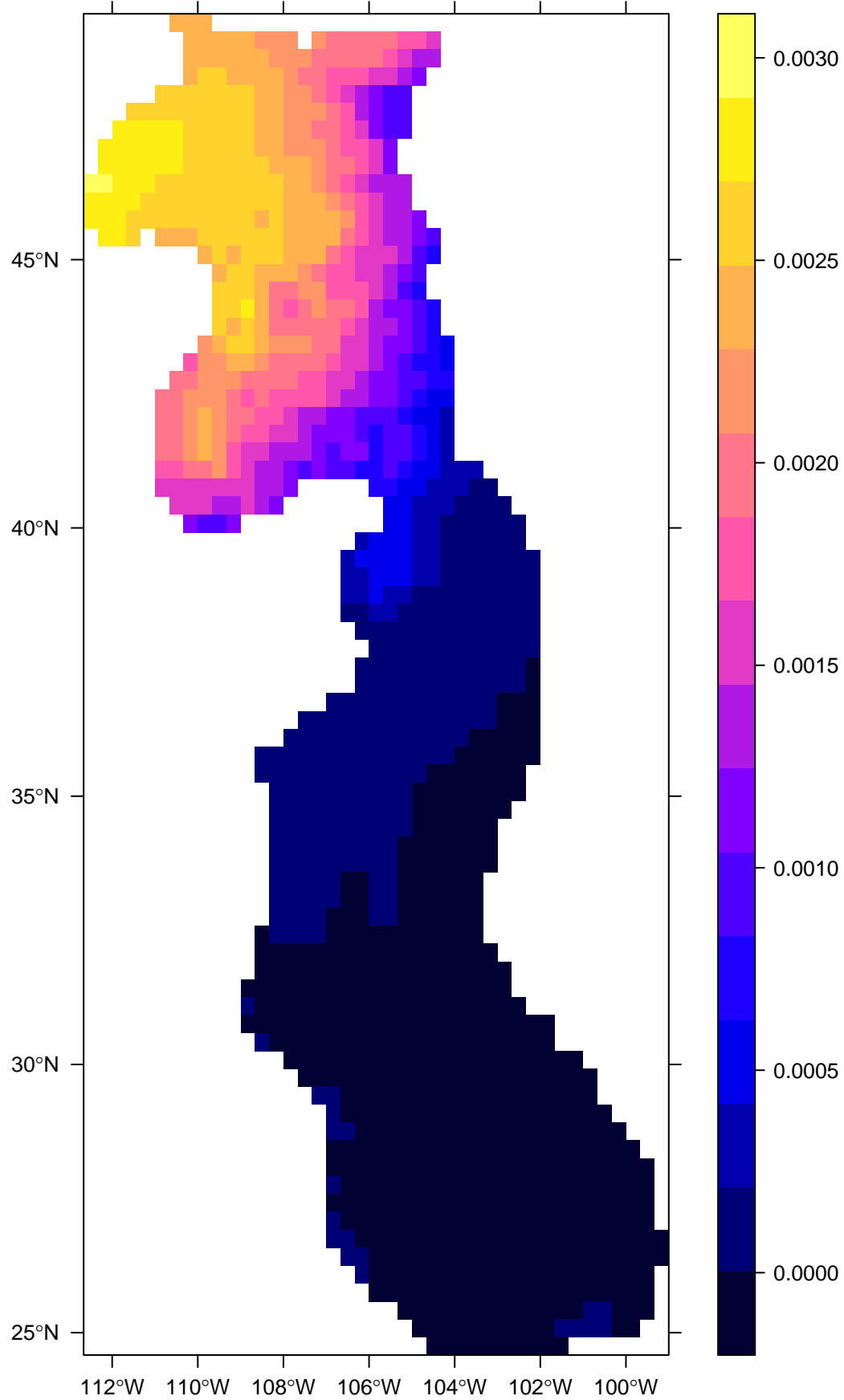
Probability Density Surface for adult_YR01_29



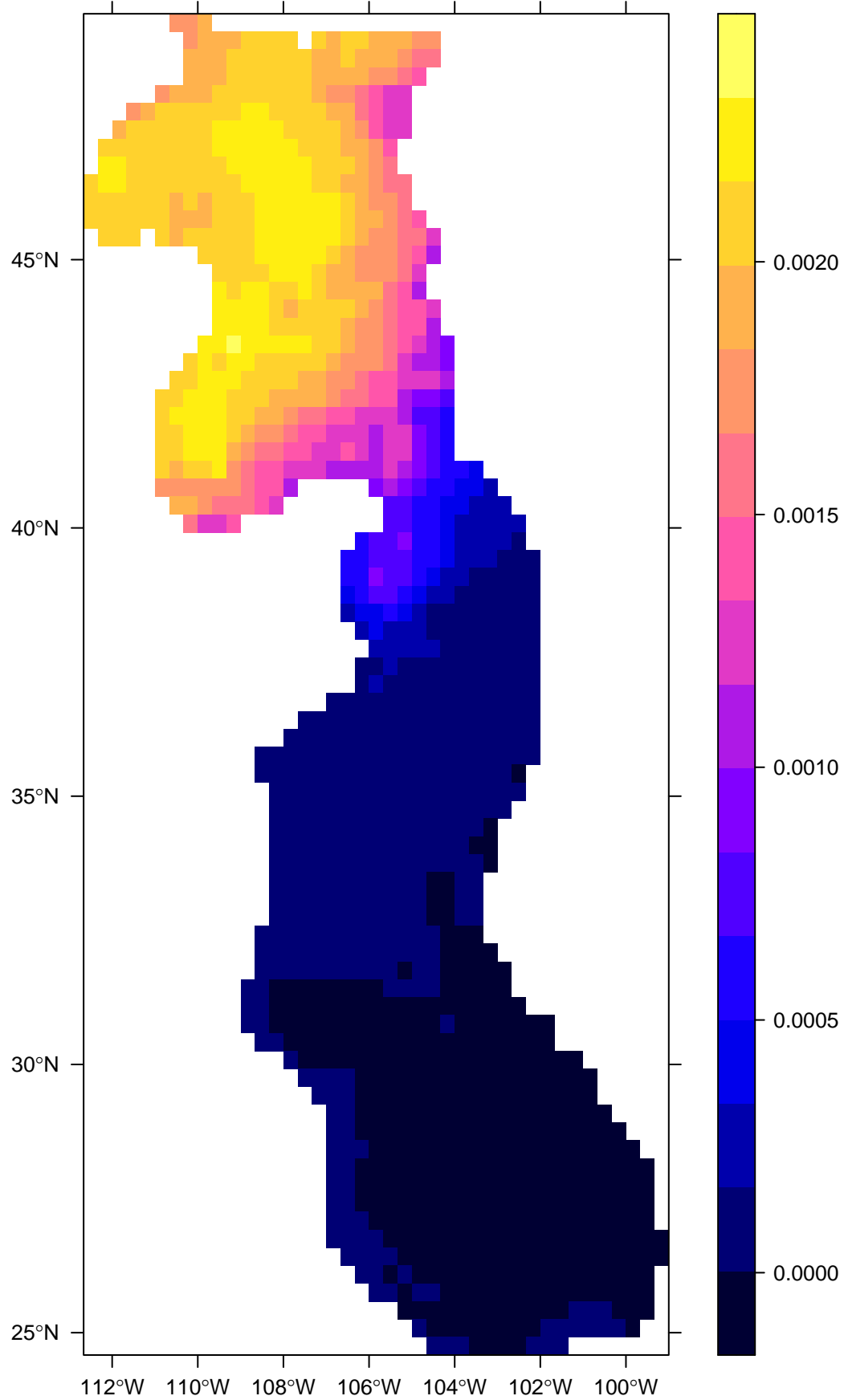
Probability Density Surface for adult_YR01_30



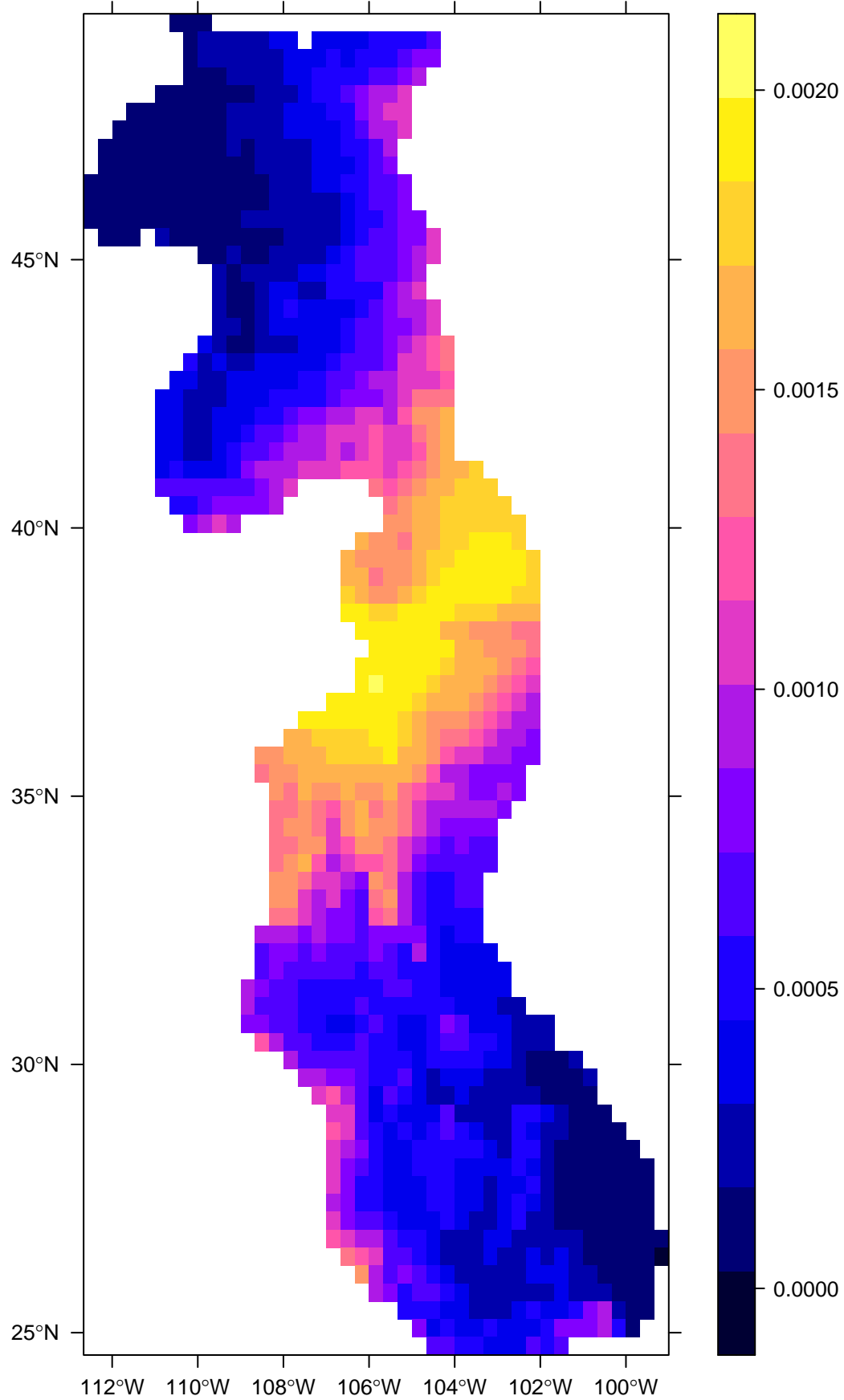
Probability Density Surface for adult_YR01_31



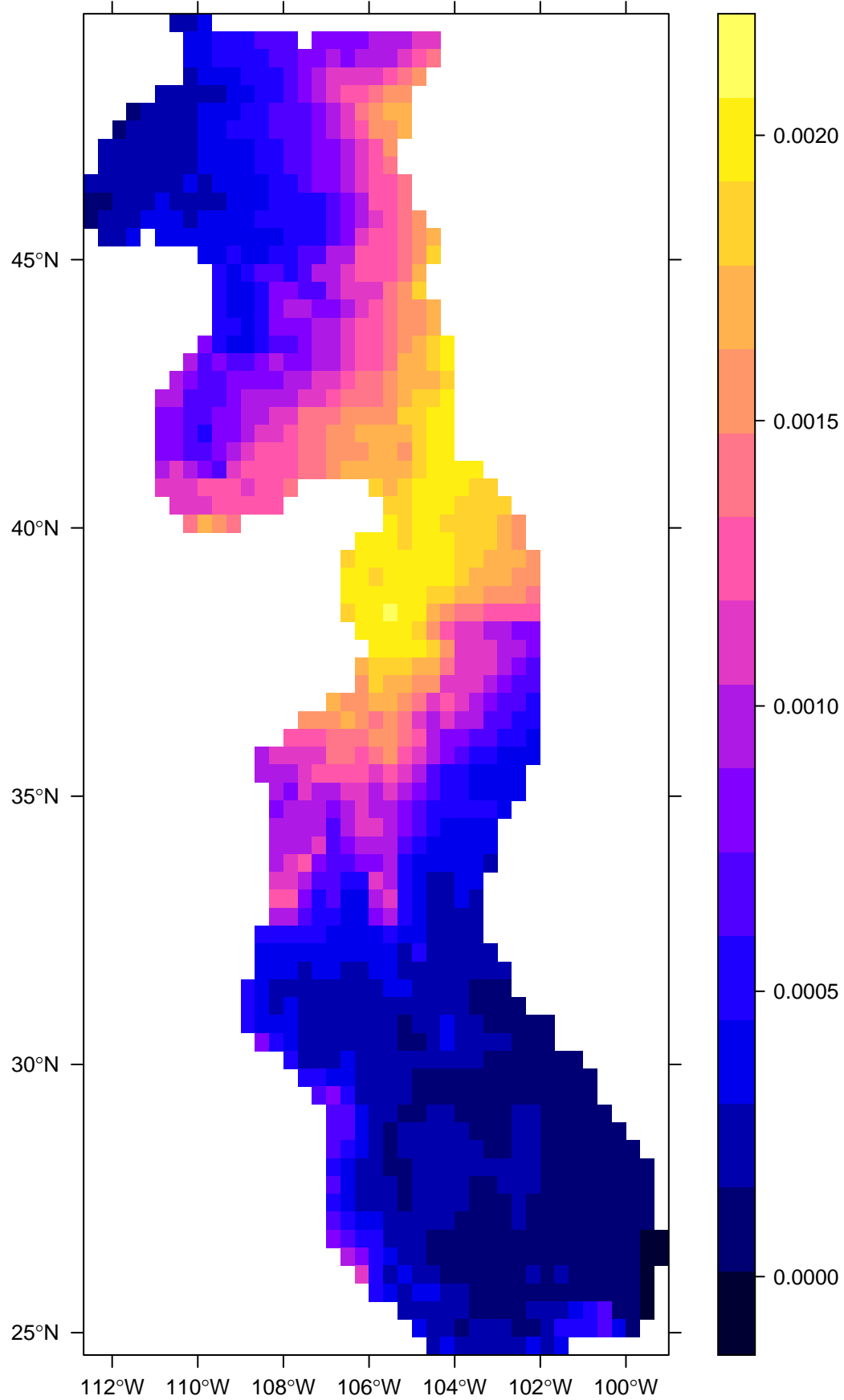
Probability Density Surface for adult_YR01_32



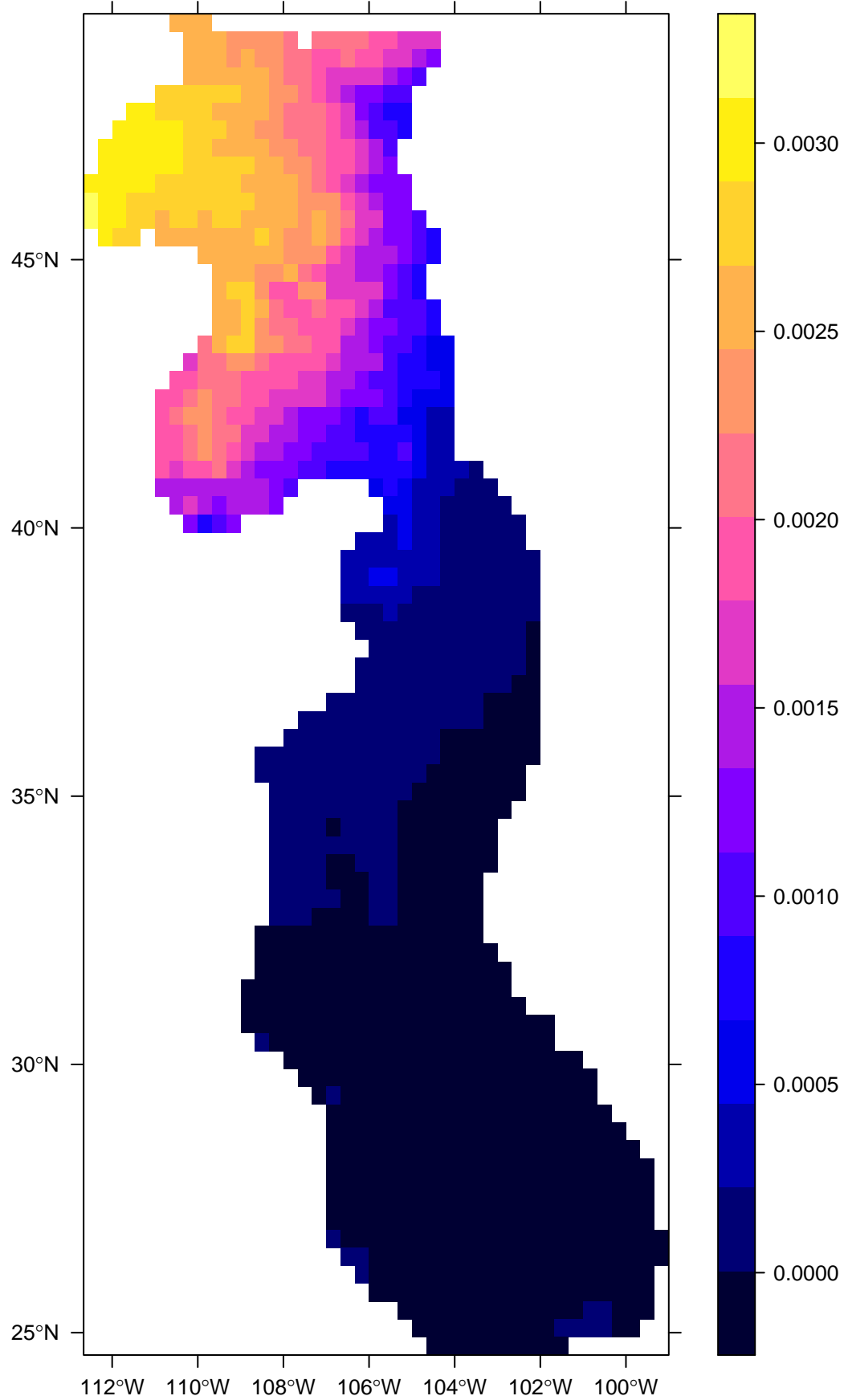
Probability Density Surface for adult_YR01_33



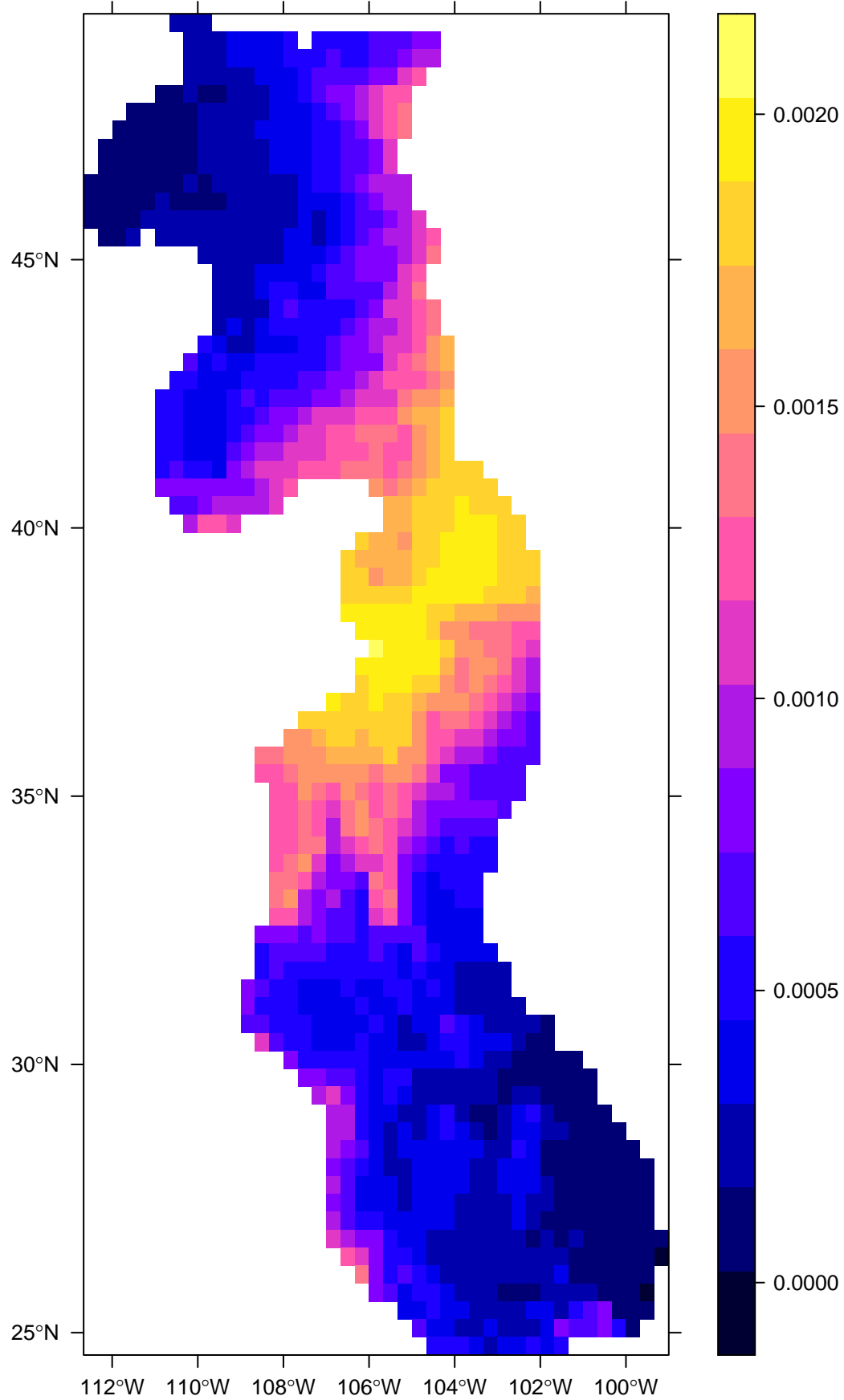
Probability Density Surface for adult_YR01_34



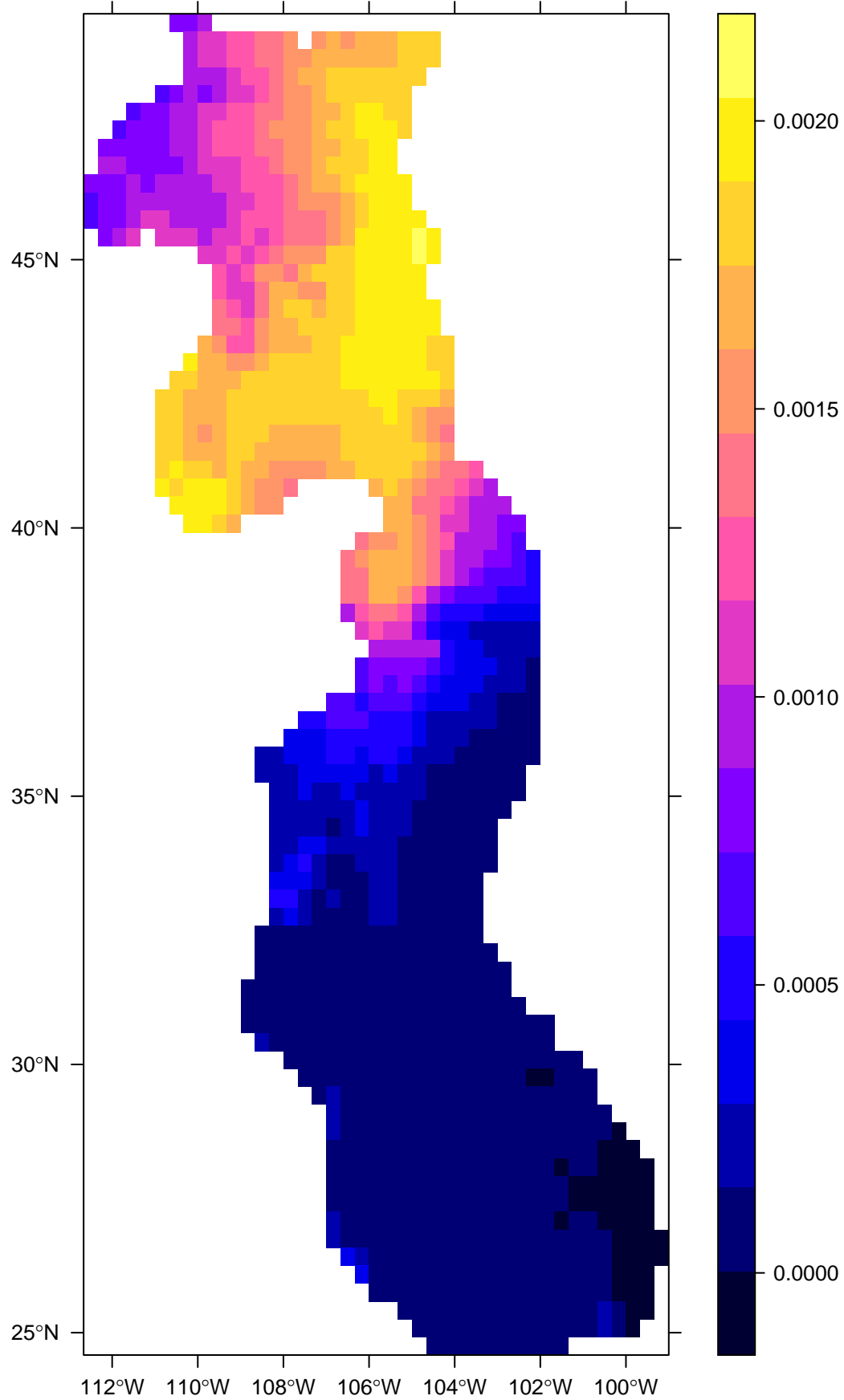
Probability Density Surface for adult_YR02_01



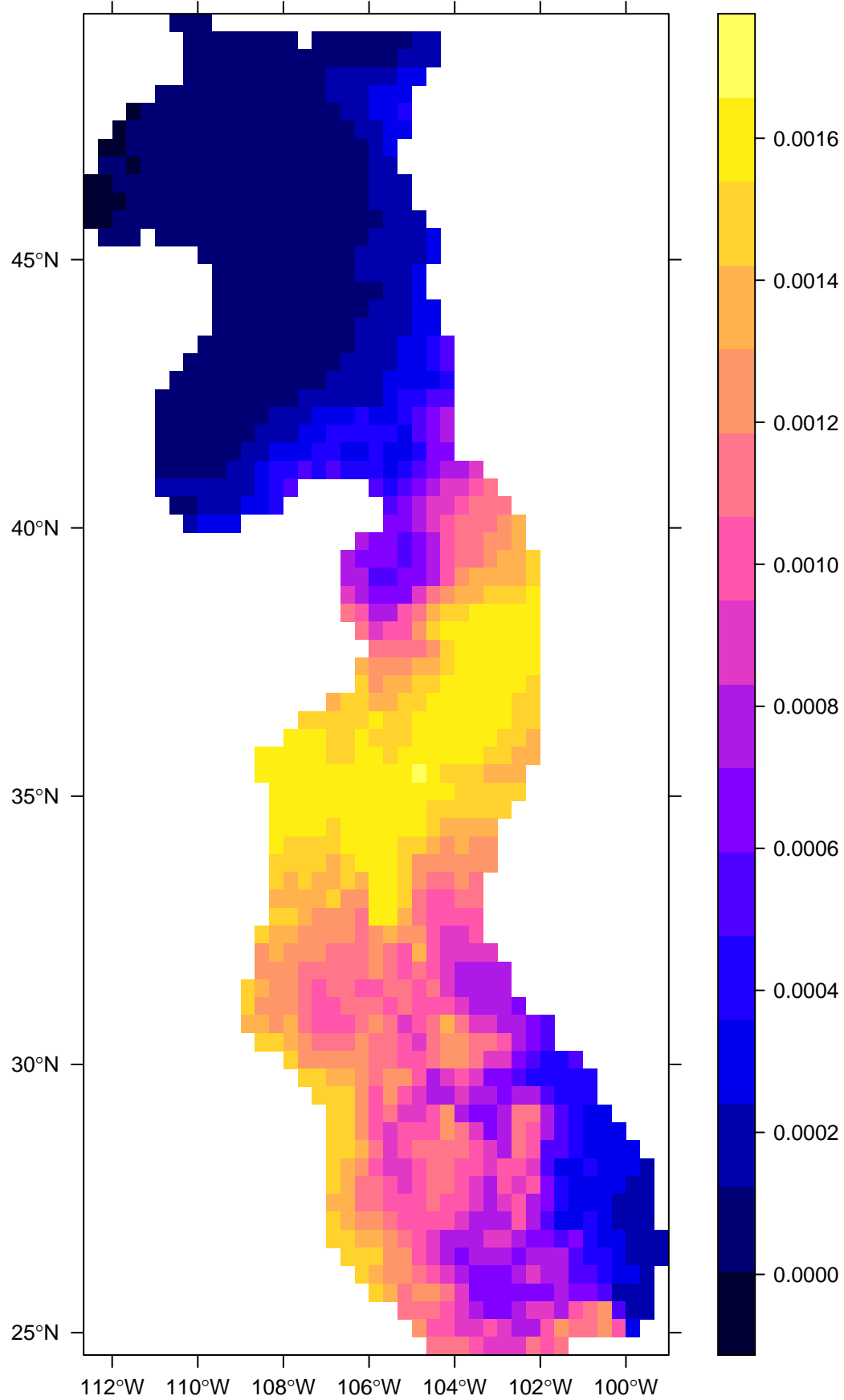
Probability Density Surface for adult_YR02_02



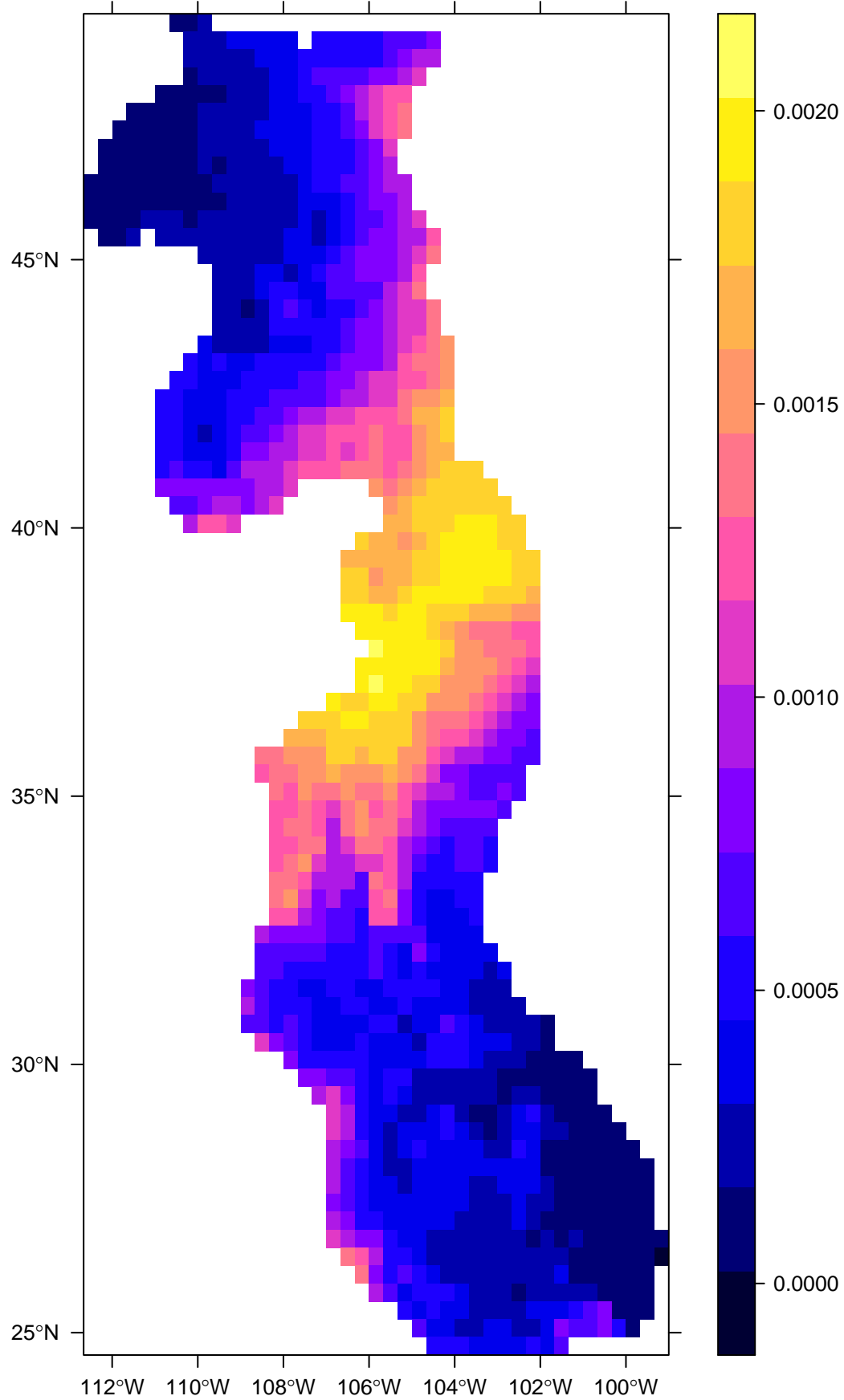
Probability Density Surface for adult_YR02_03



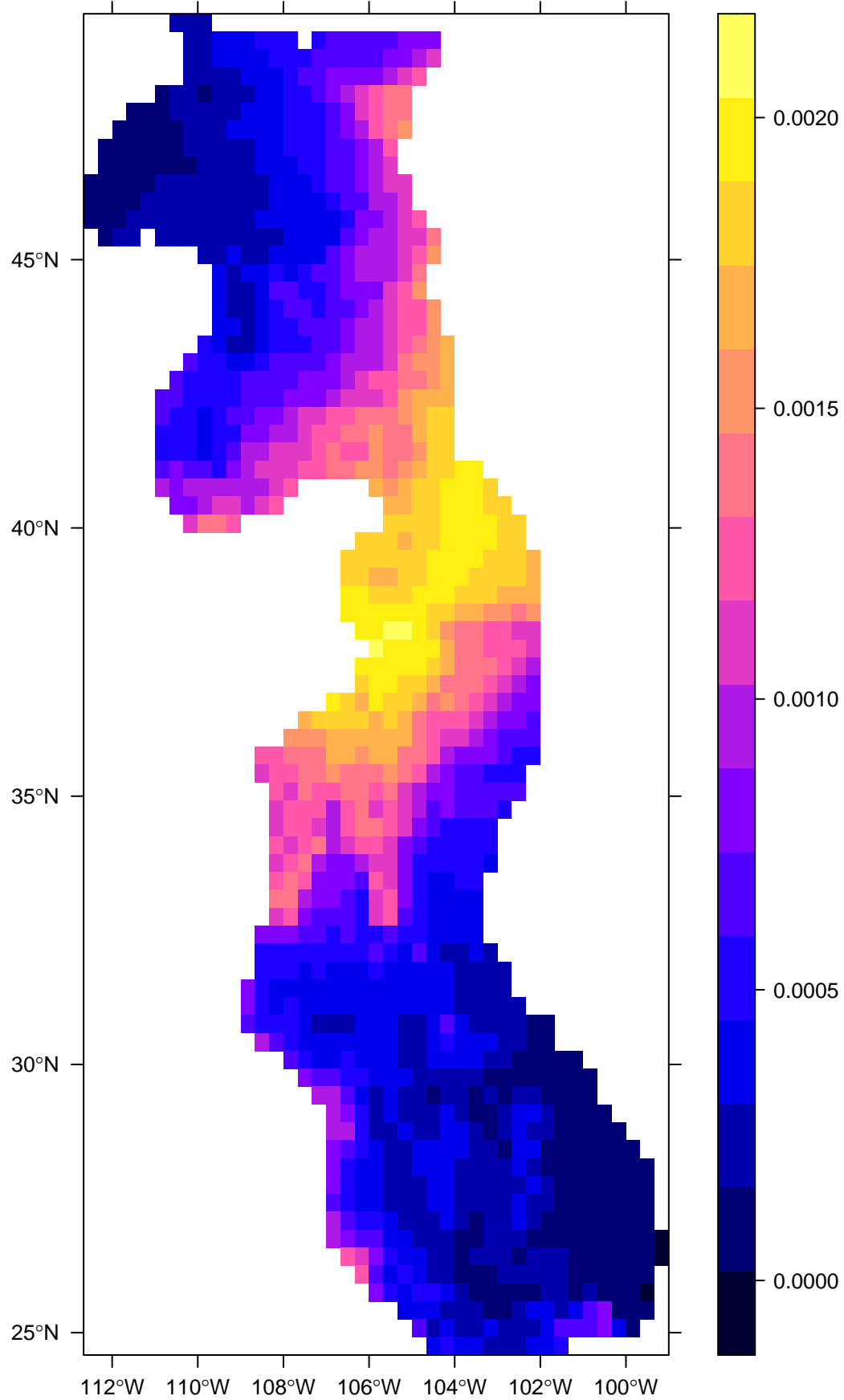
Probability Density Surface for adult_YR02_04



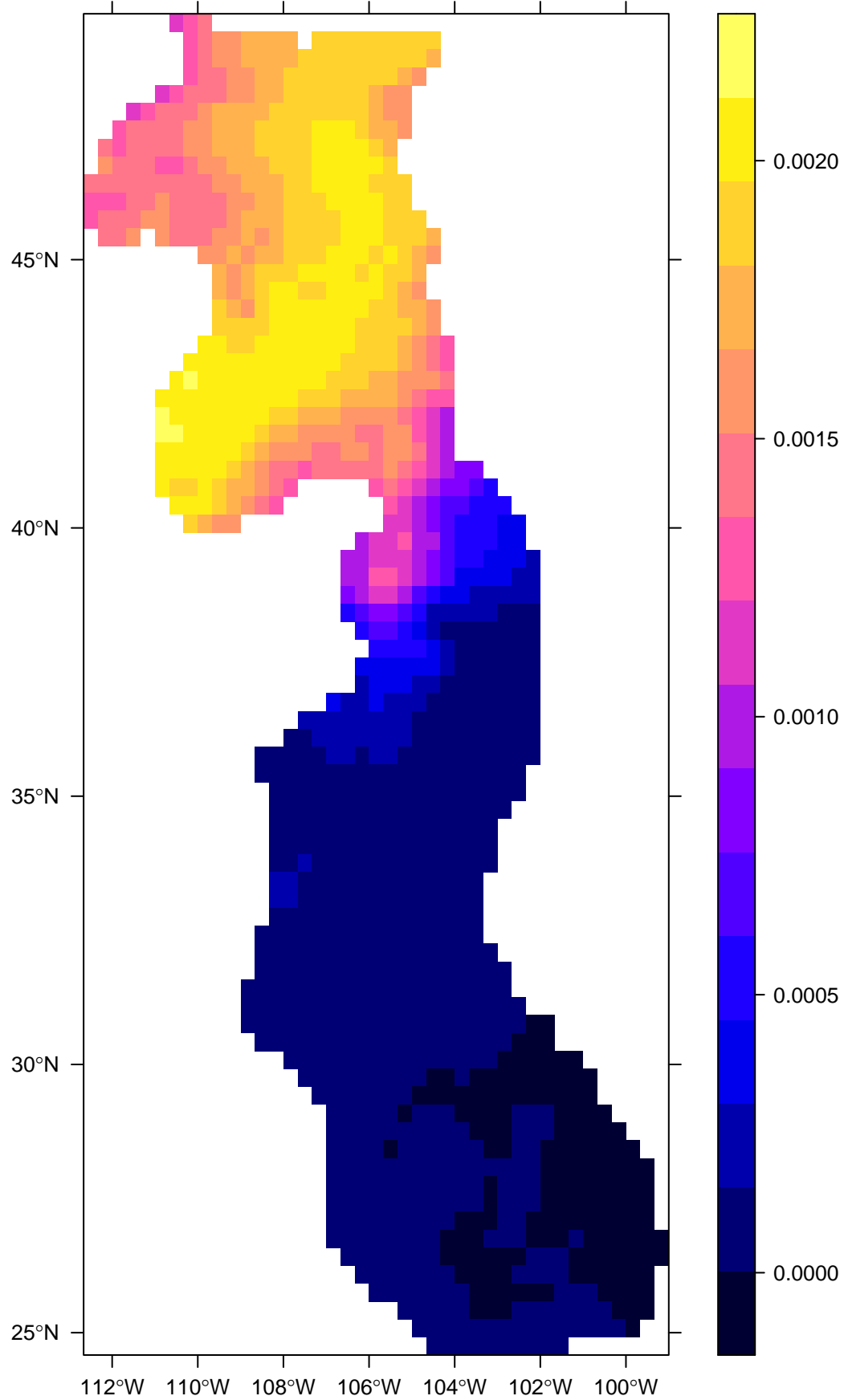
Probability Density Surface for adult_YR02_05



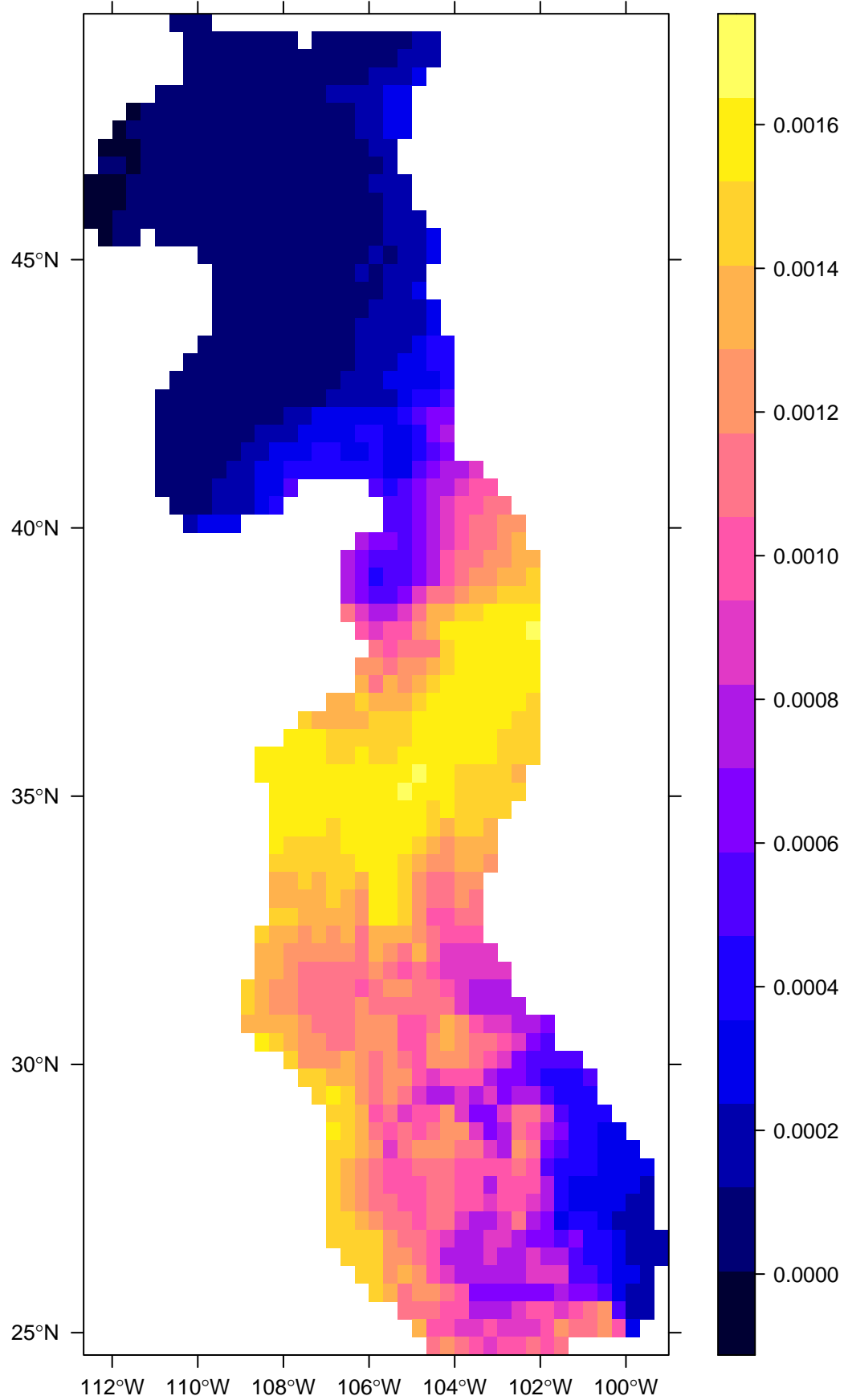
Probability Density Surface for adult_YR02_06



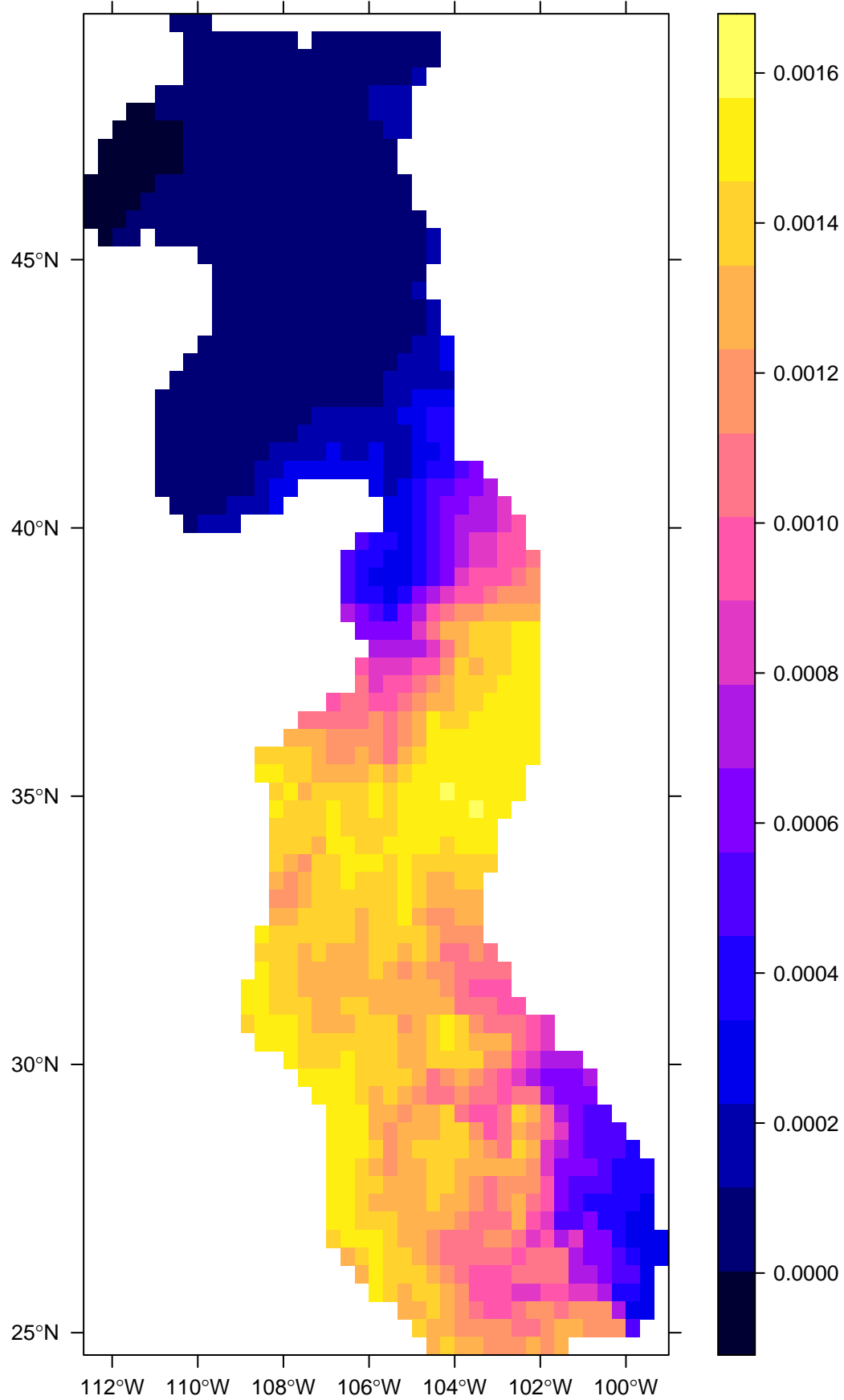
Probability Density Surface for adult_YR02_07



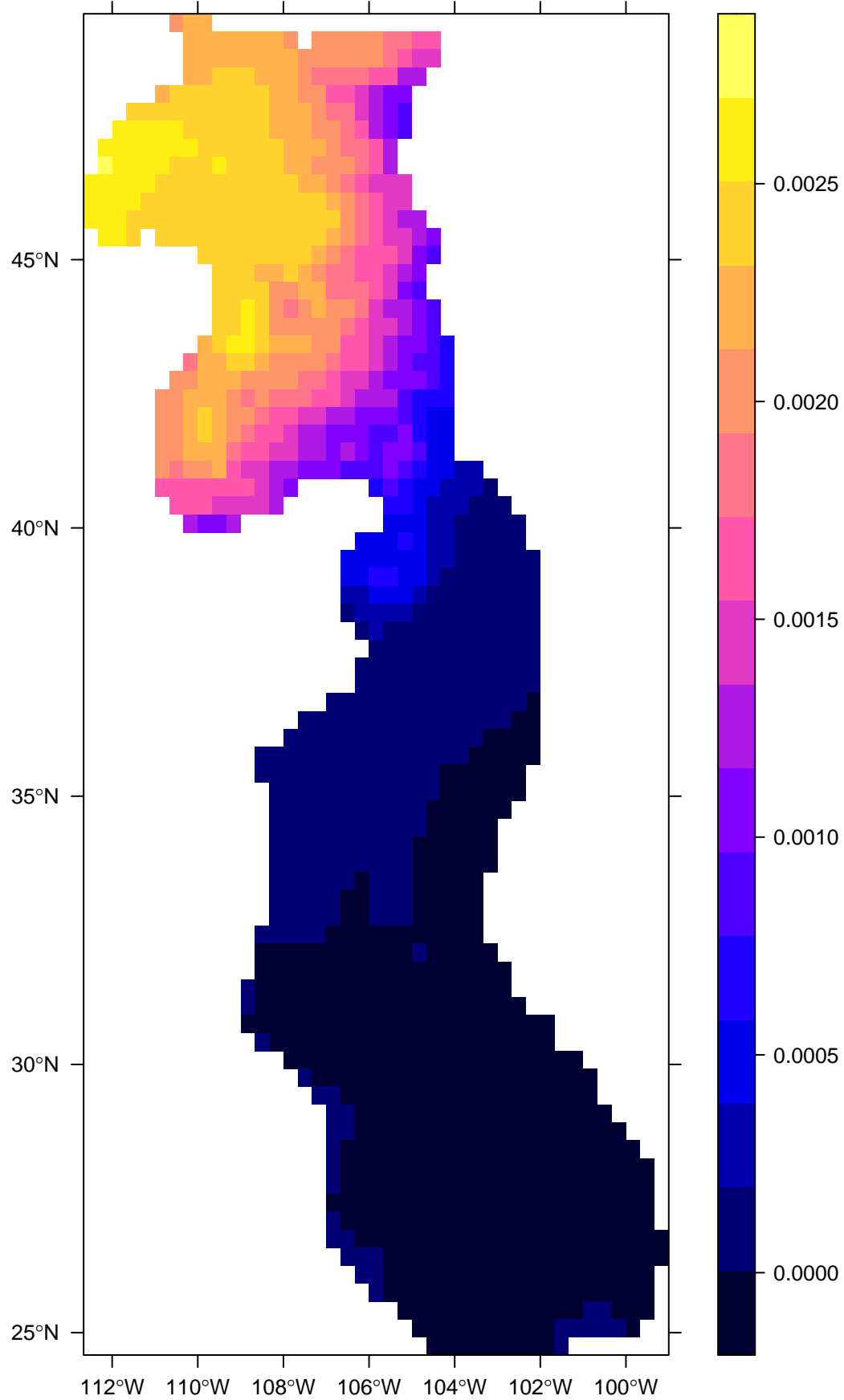
Probability Density Surface for adult_YR02_08



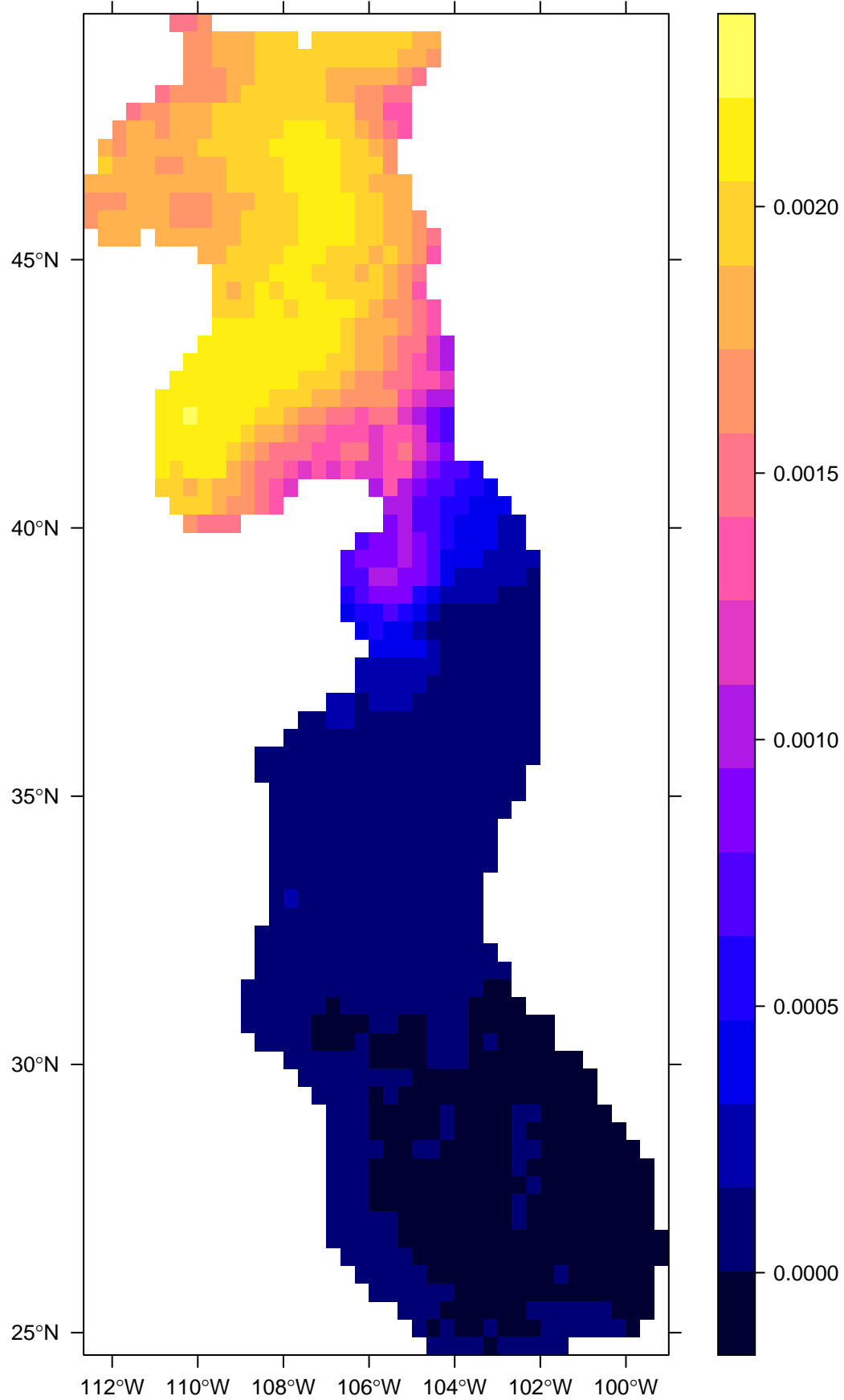
Probability Density Surface for adult_YR02_09



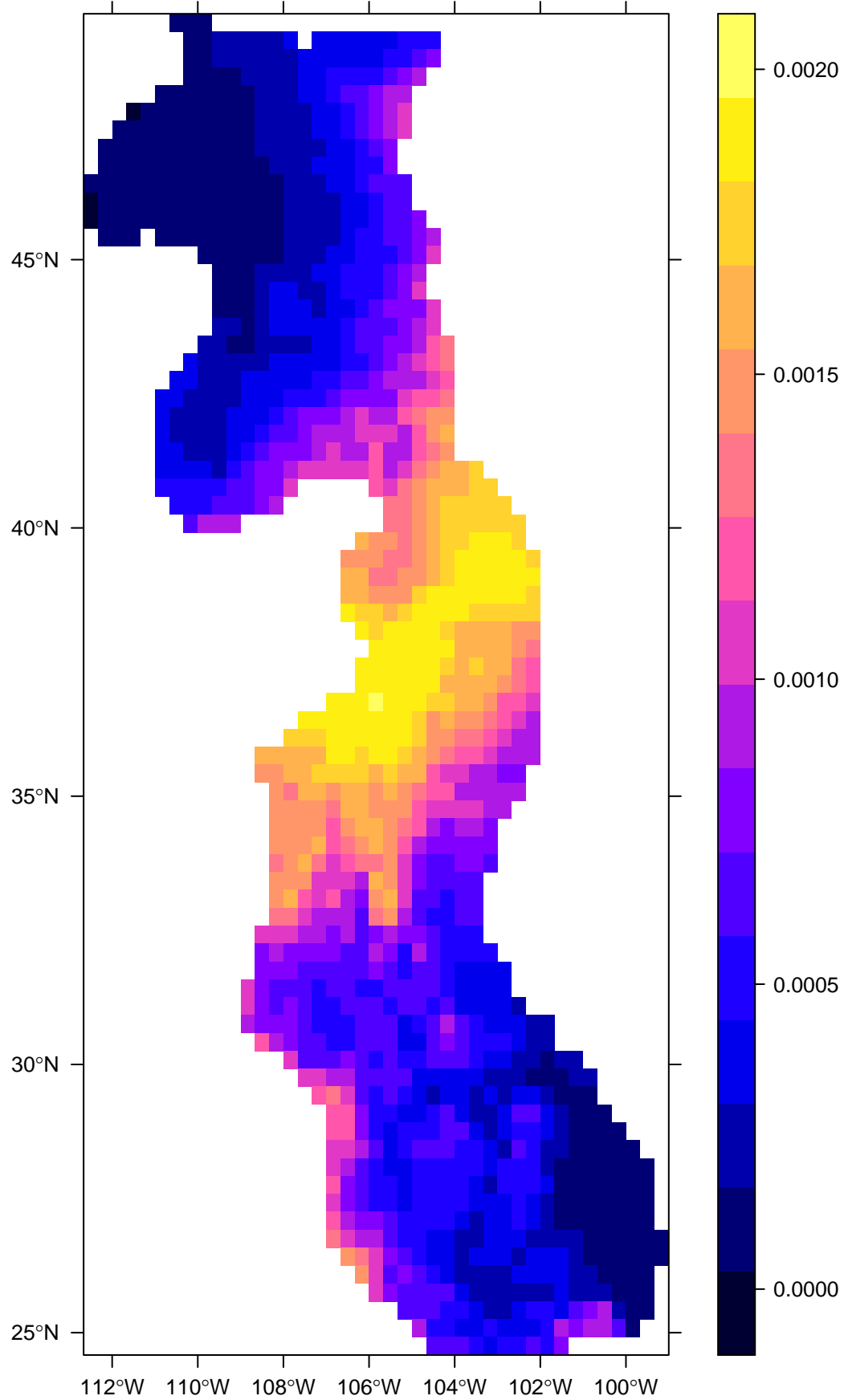
Probability Density Surface for adult_YR02_10



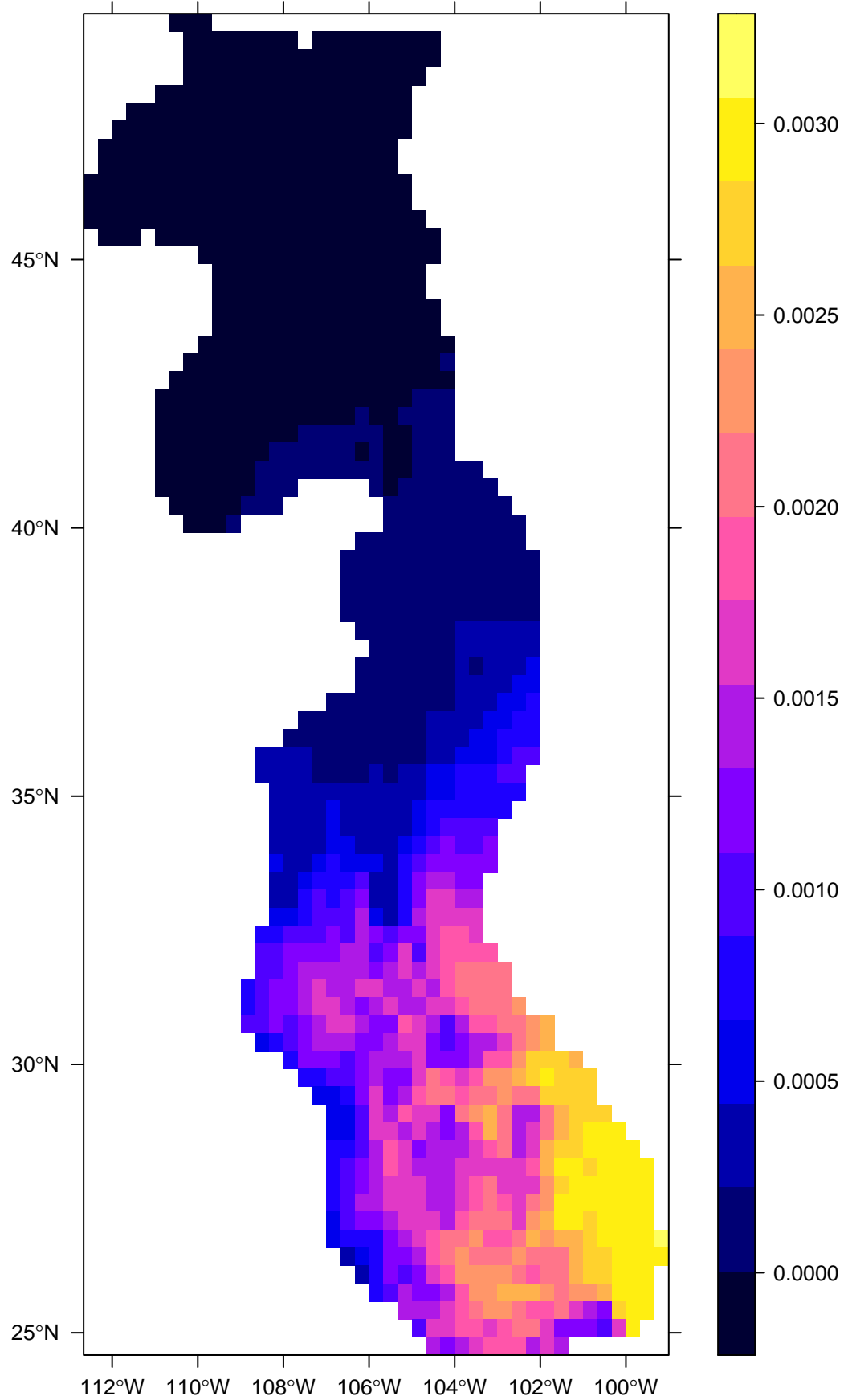
Probability Density Surface for adult_YR02_11



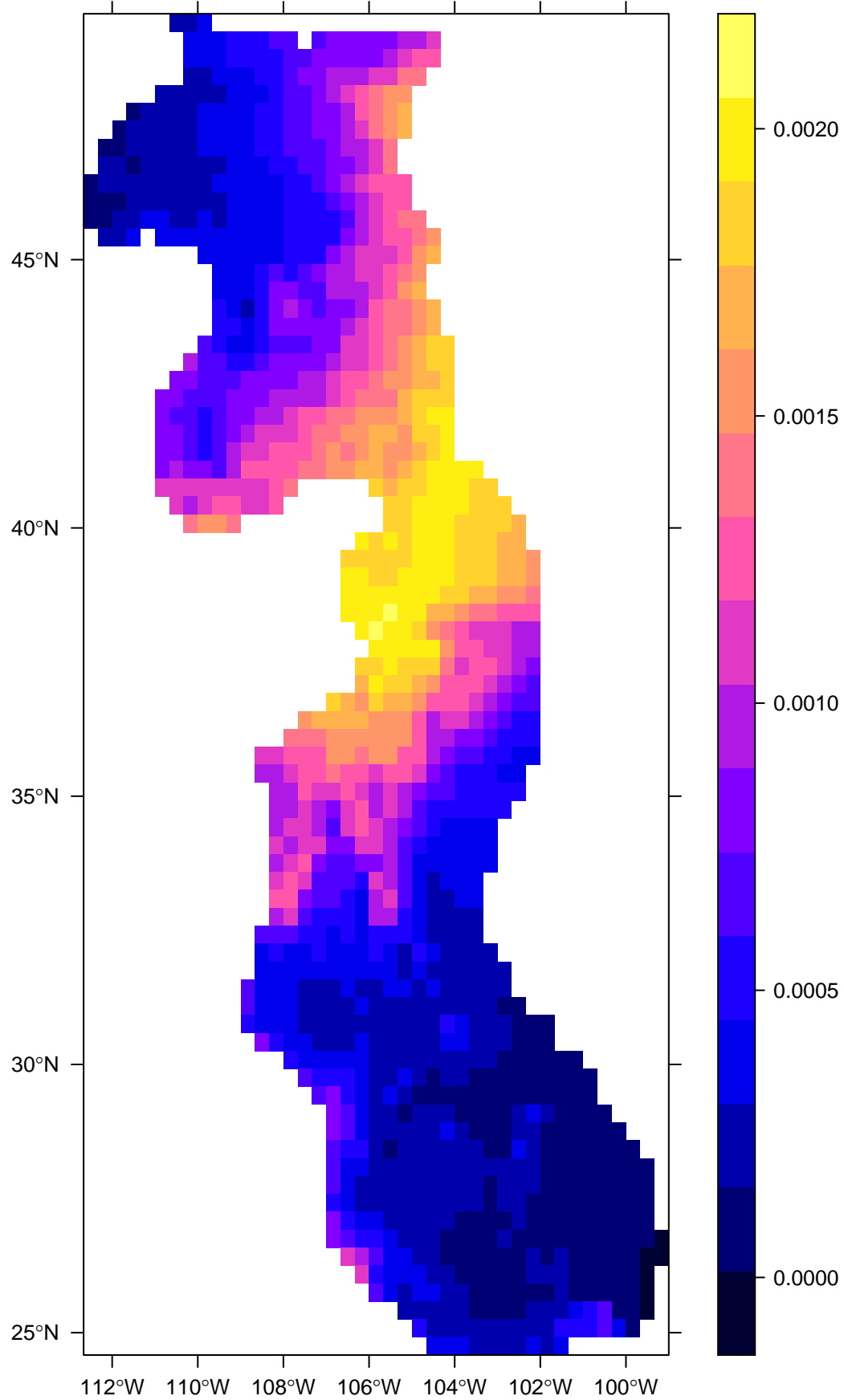
Probability Density Surface for adult_YR02_12



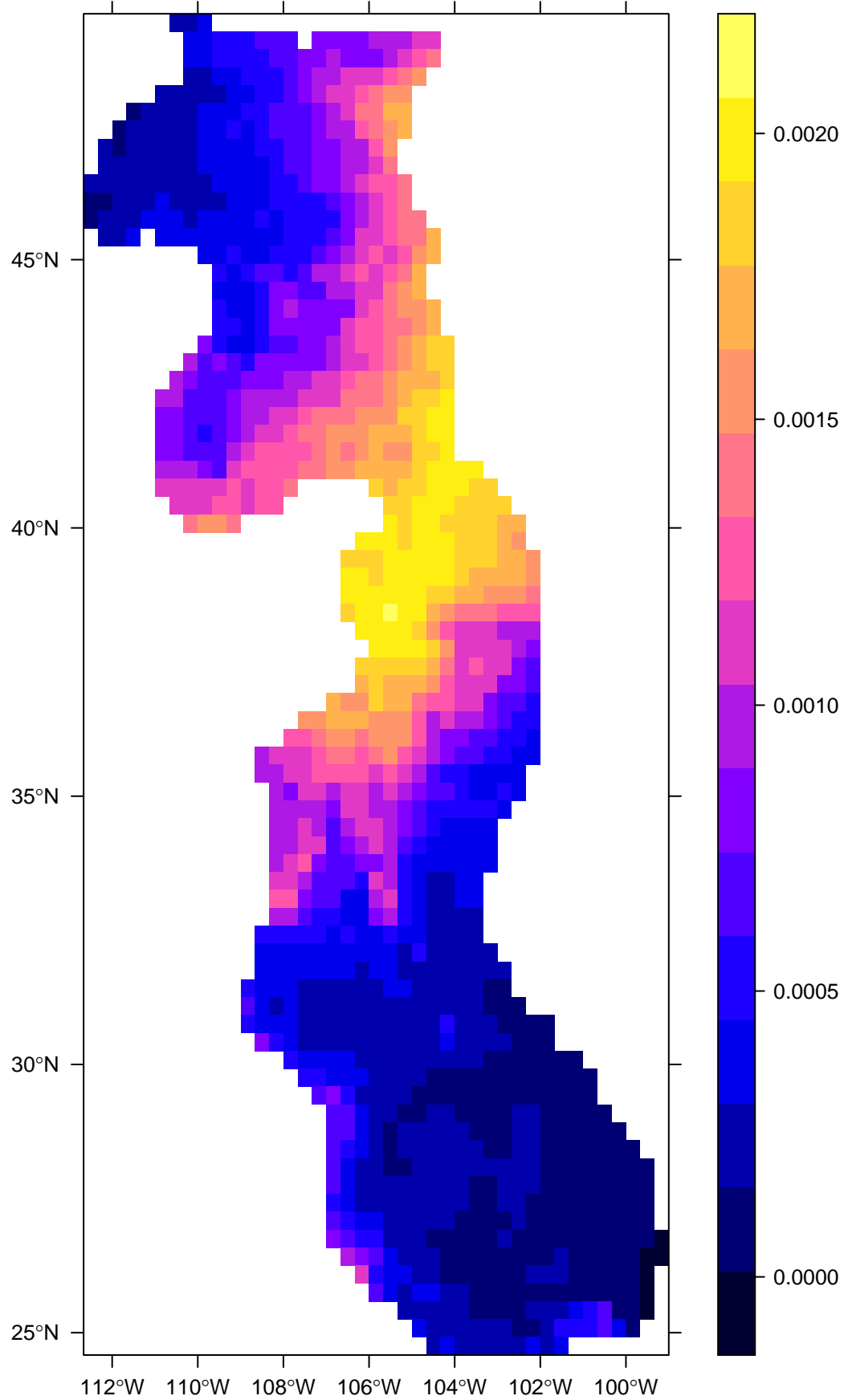
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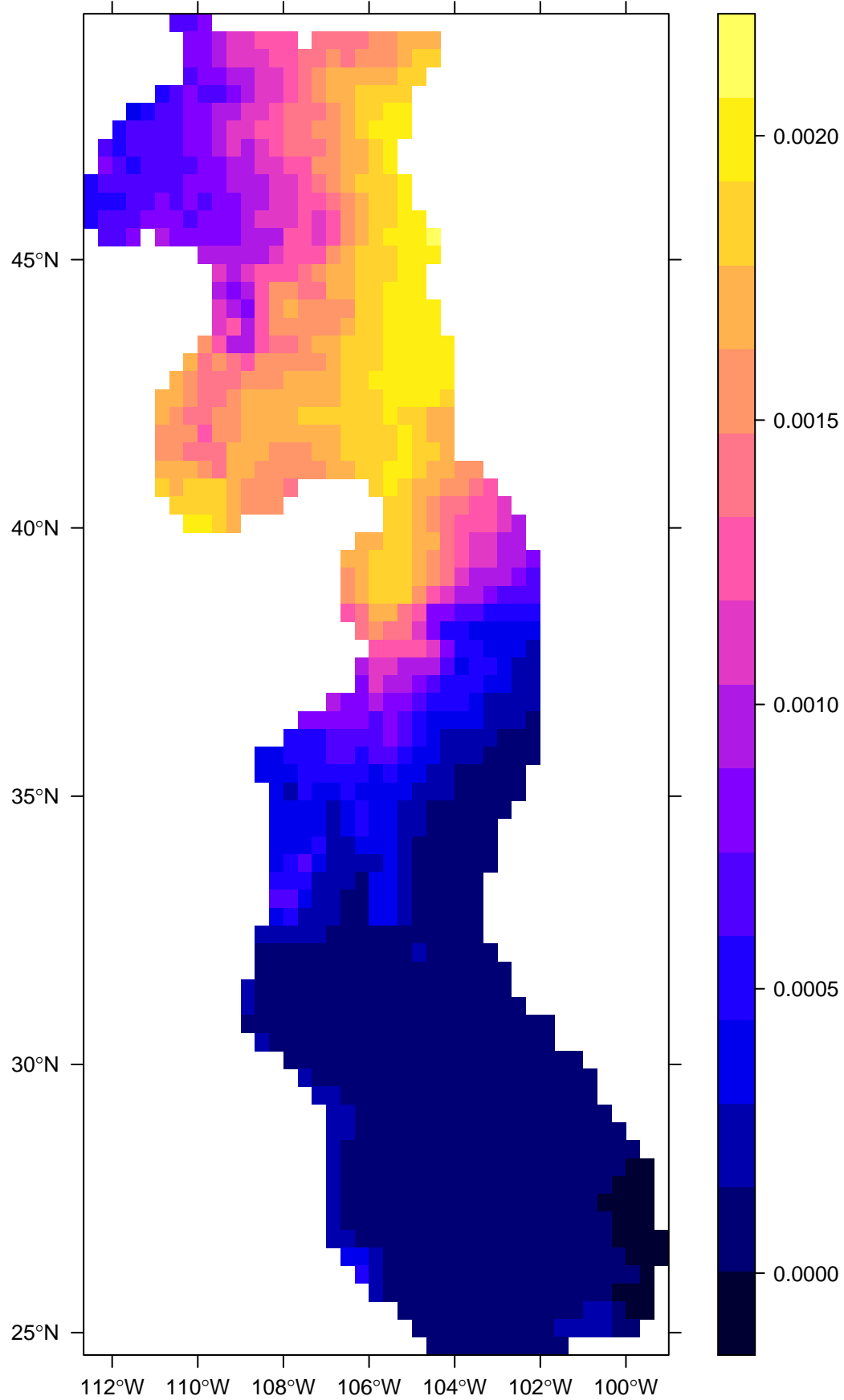
Probability Density Surface for adult_YR02_14



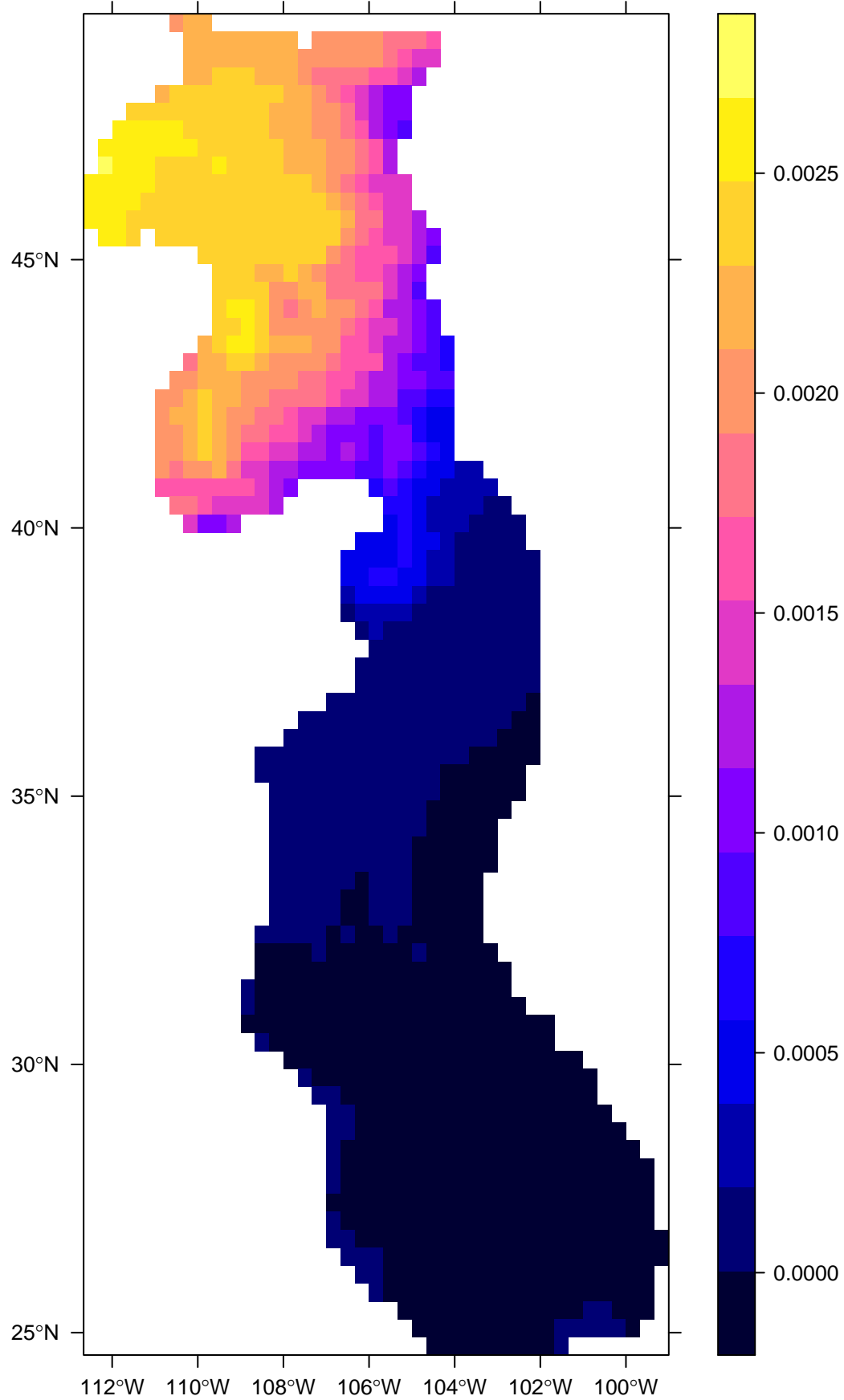
Probability Density Surface for adult_YR02_15



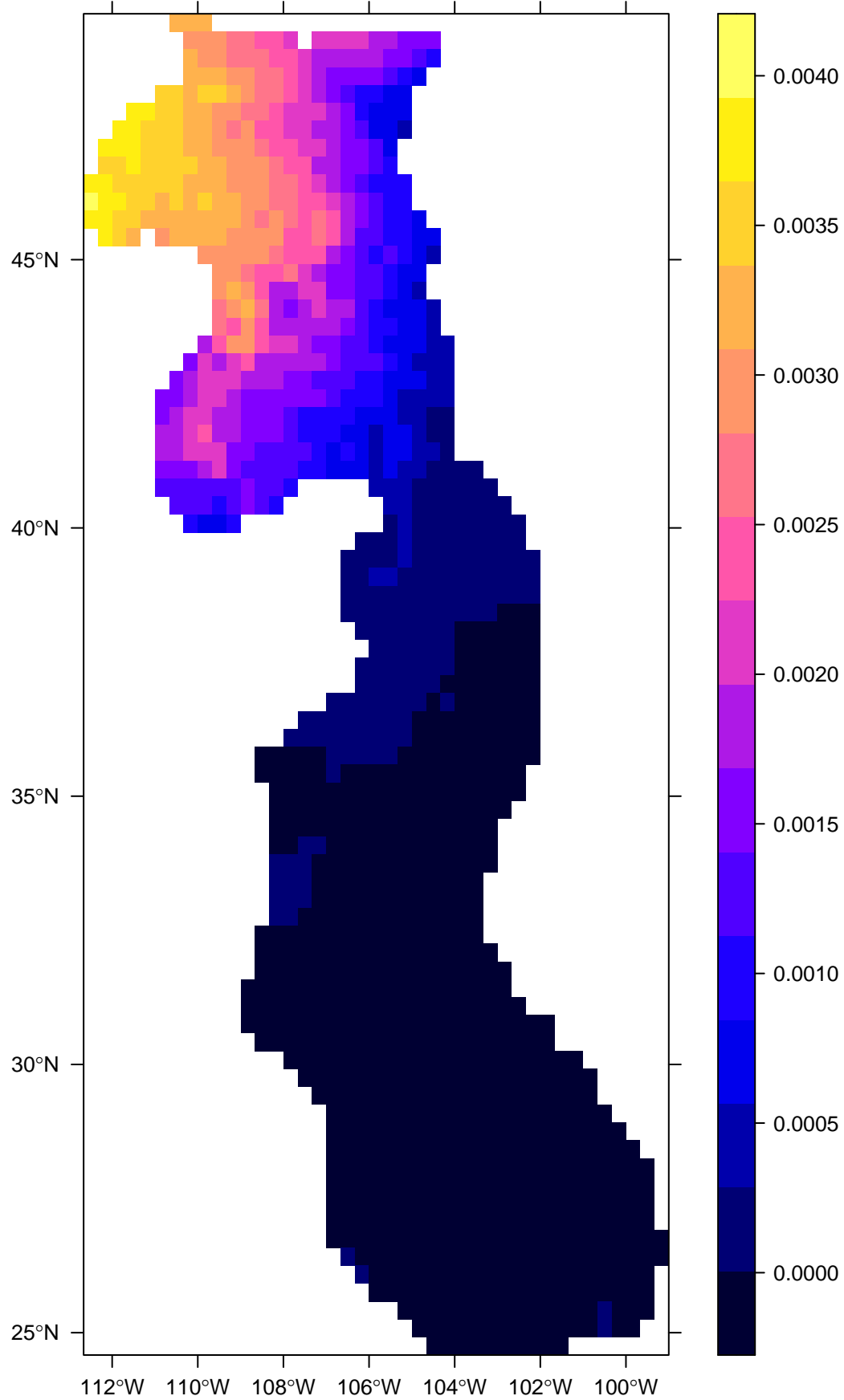
Probability Density Surface for adult_YR02_16



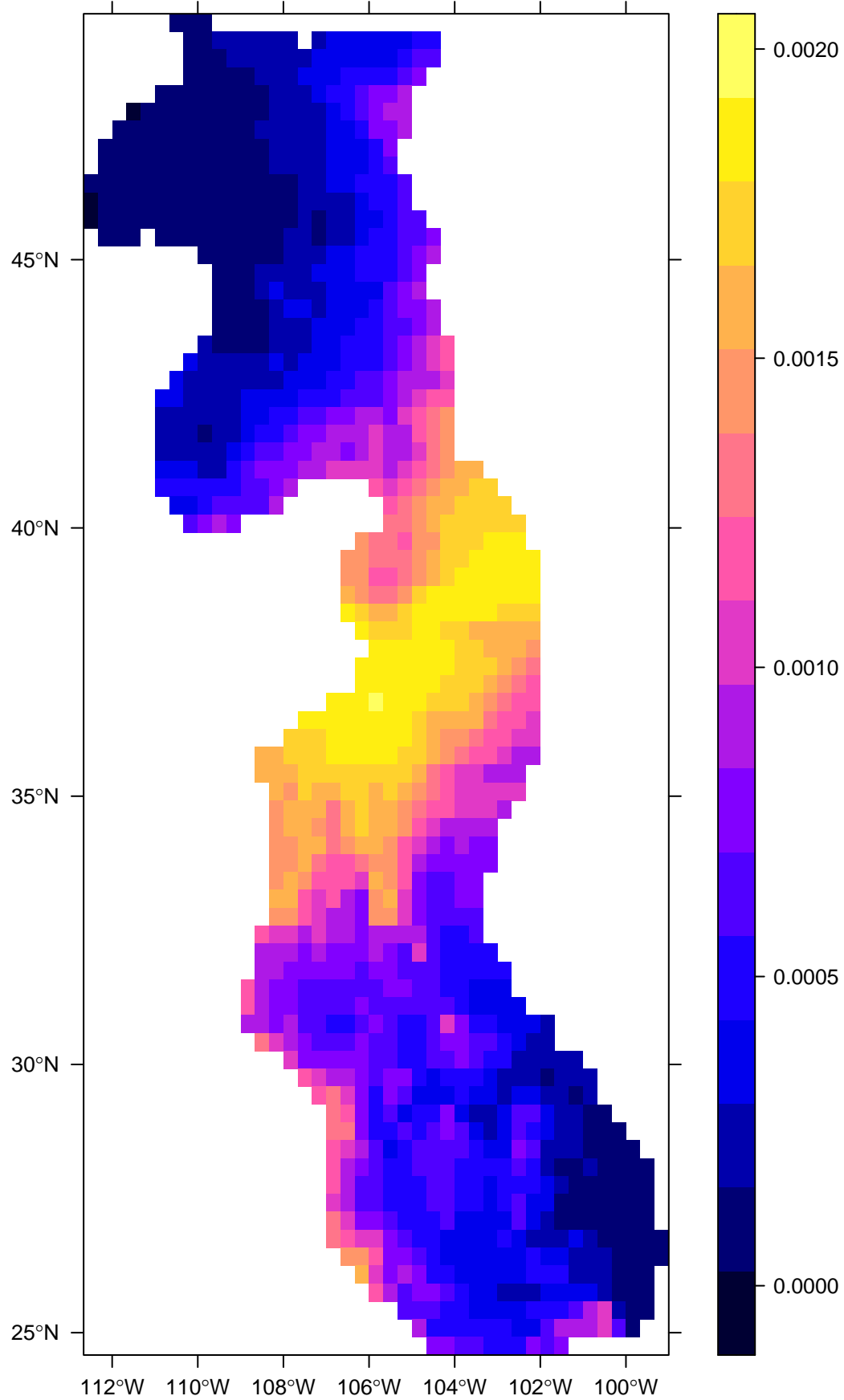
Probability Density Surface for adult_YR02_17



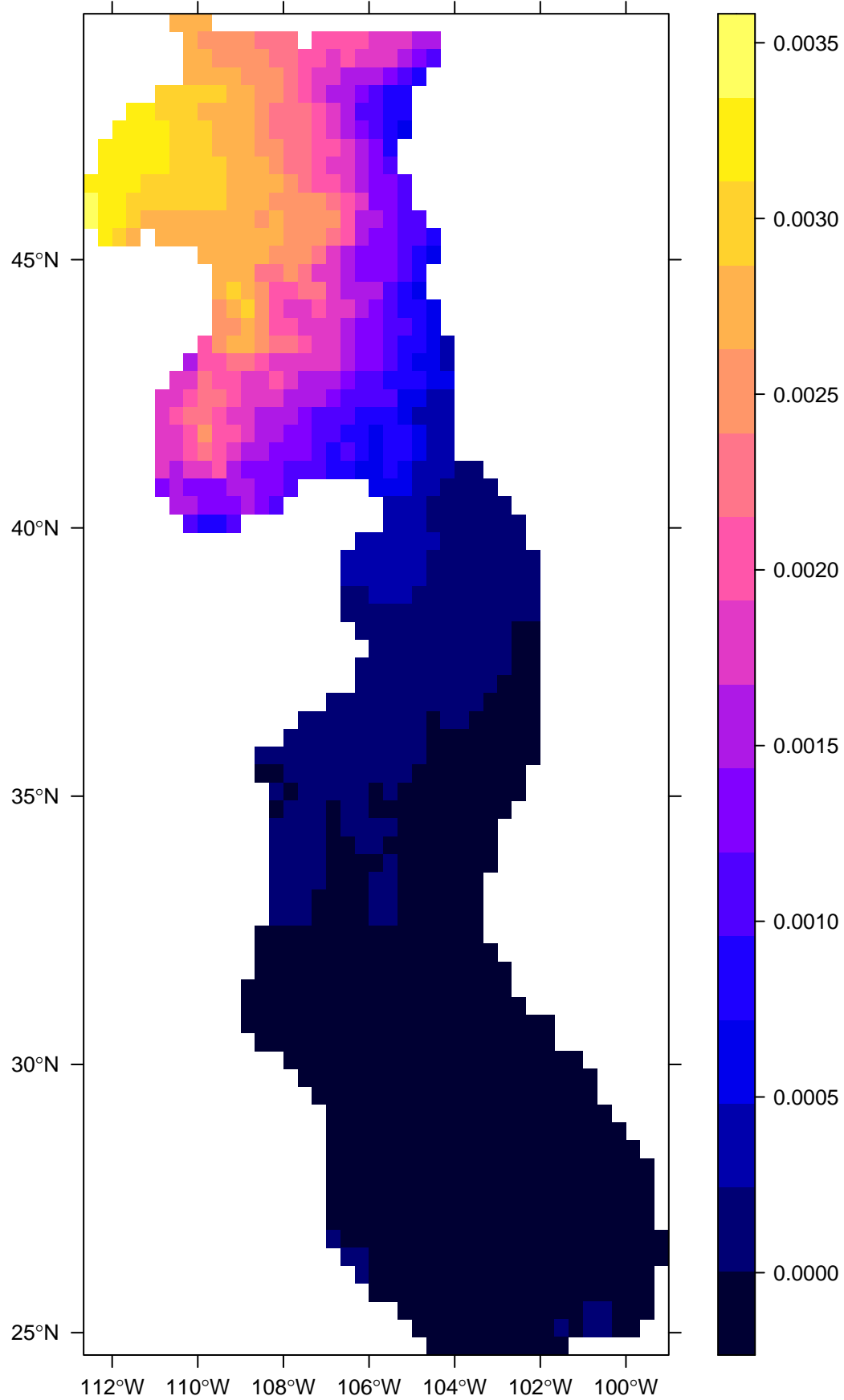
Probability Density Surface for adult_YR02_18



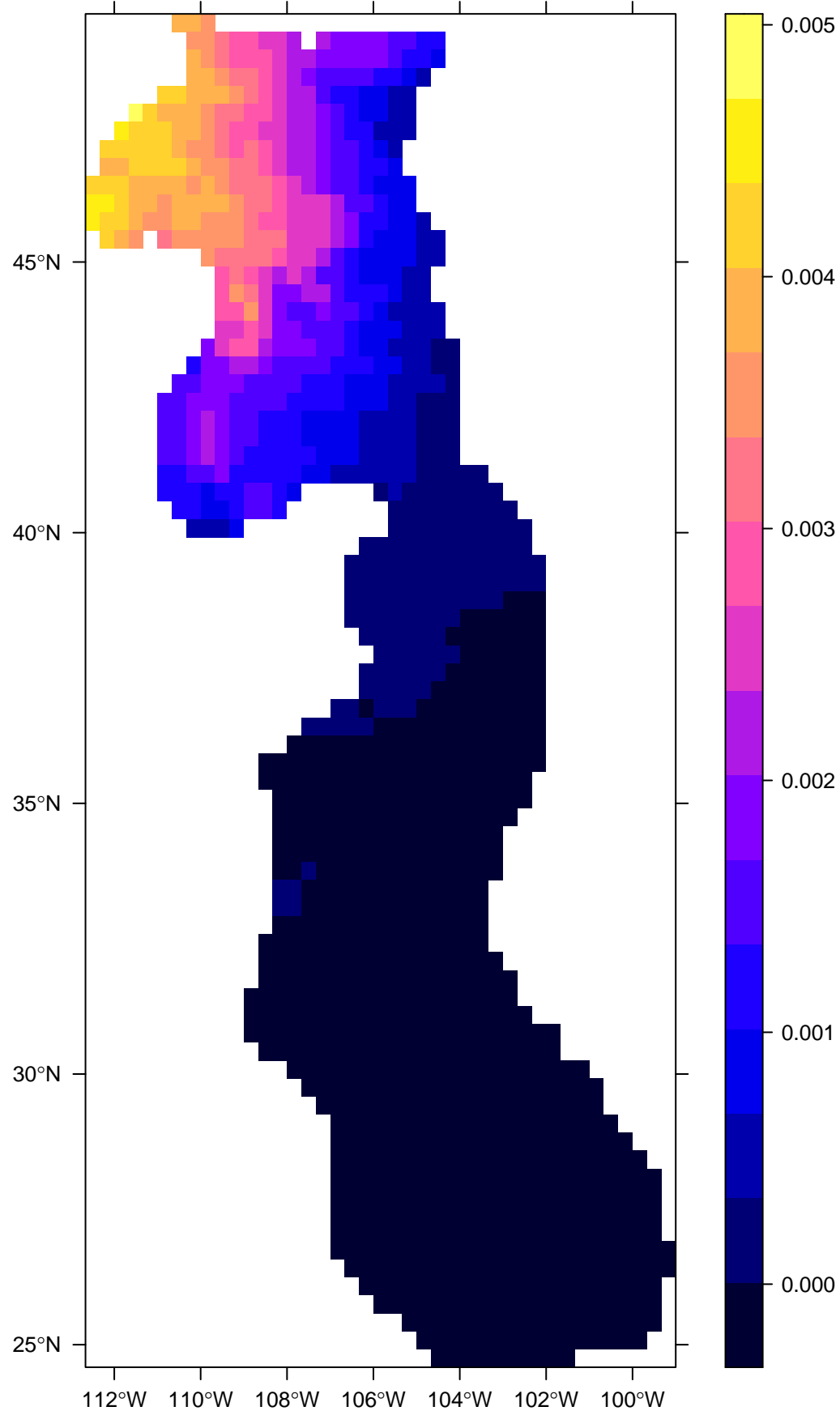
Probability Density Surface for adult_YR02_19



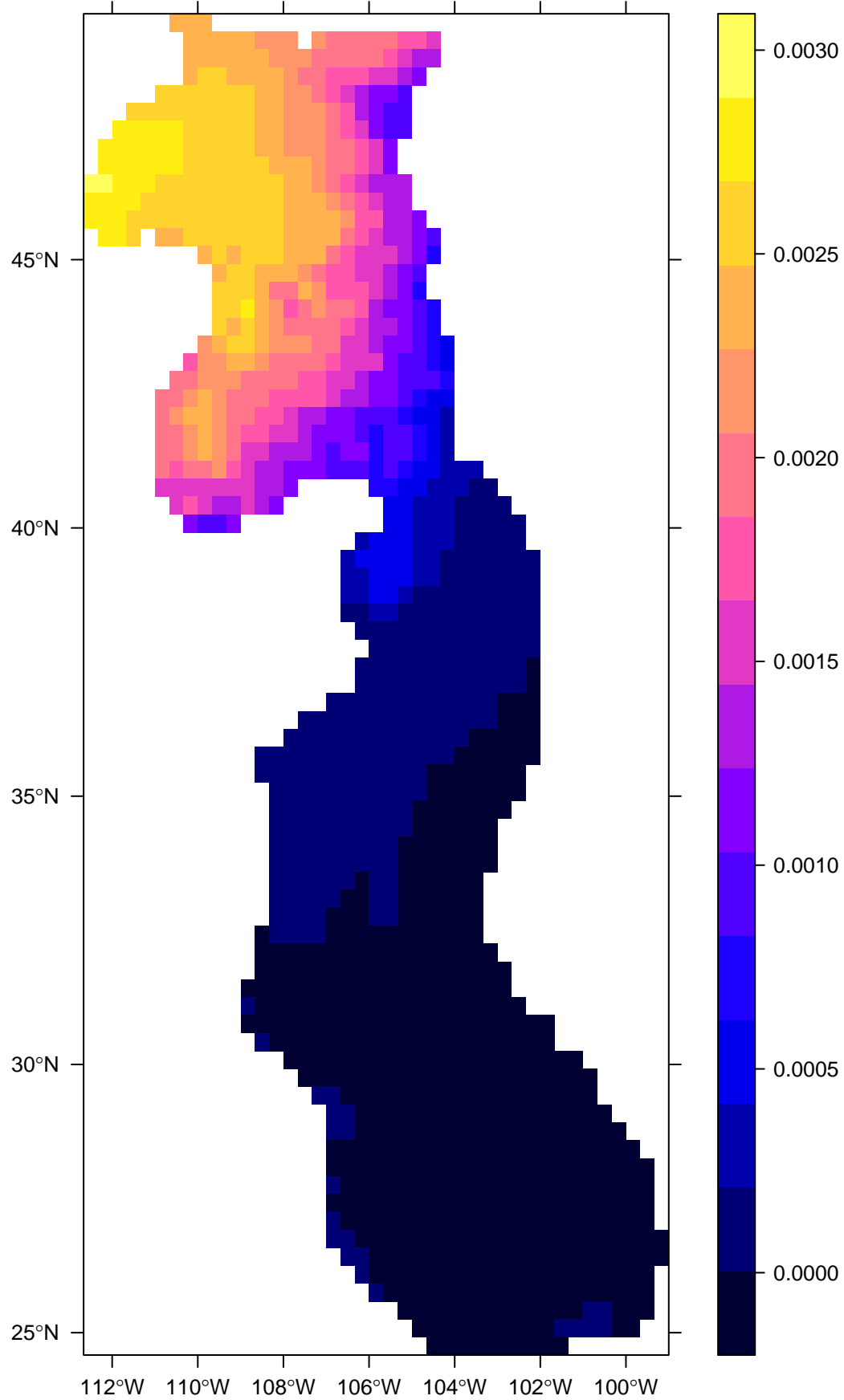
Probability Density Surface for adult_YR02_20



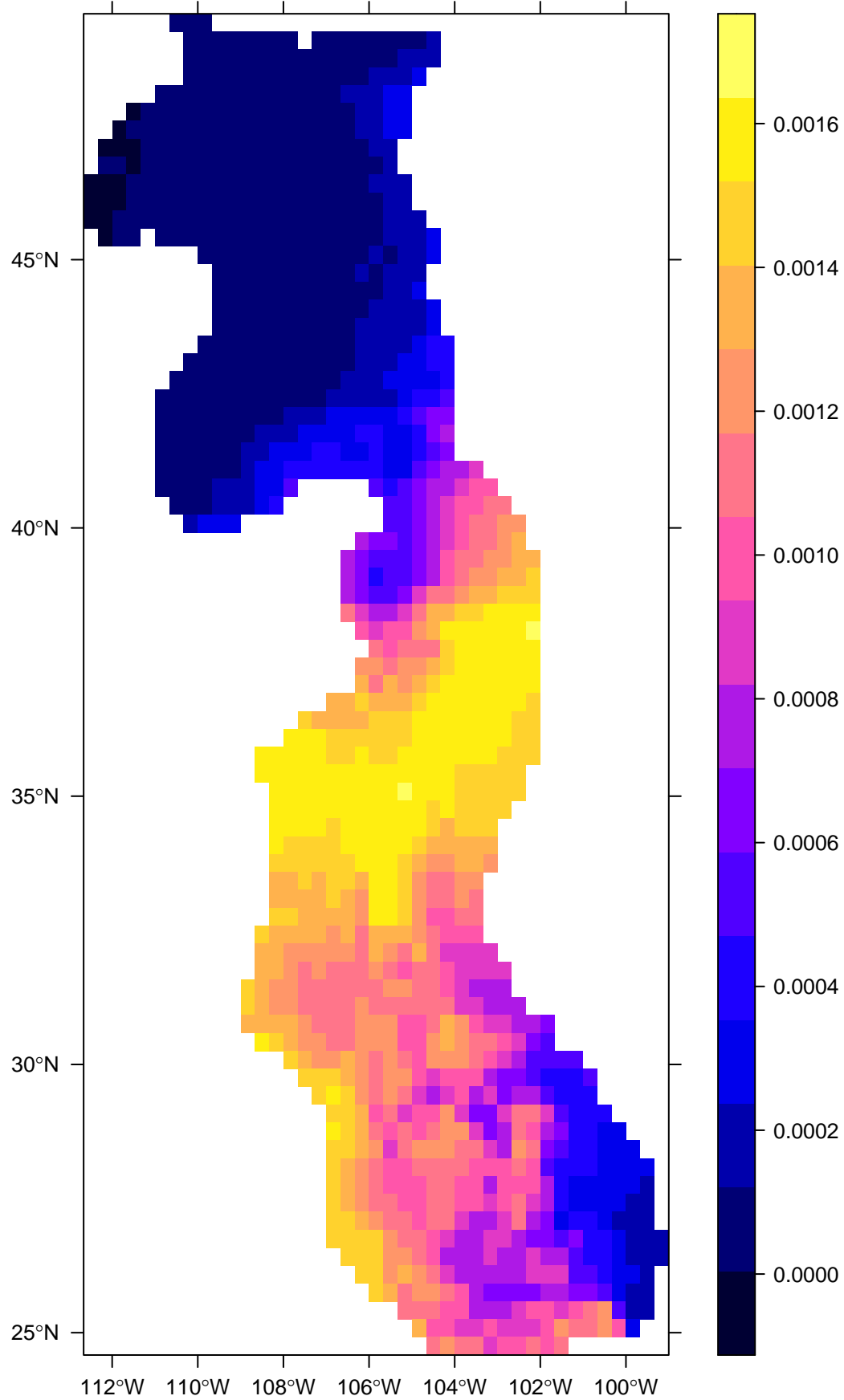
Probability Density Surface for adult_YR02_21



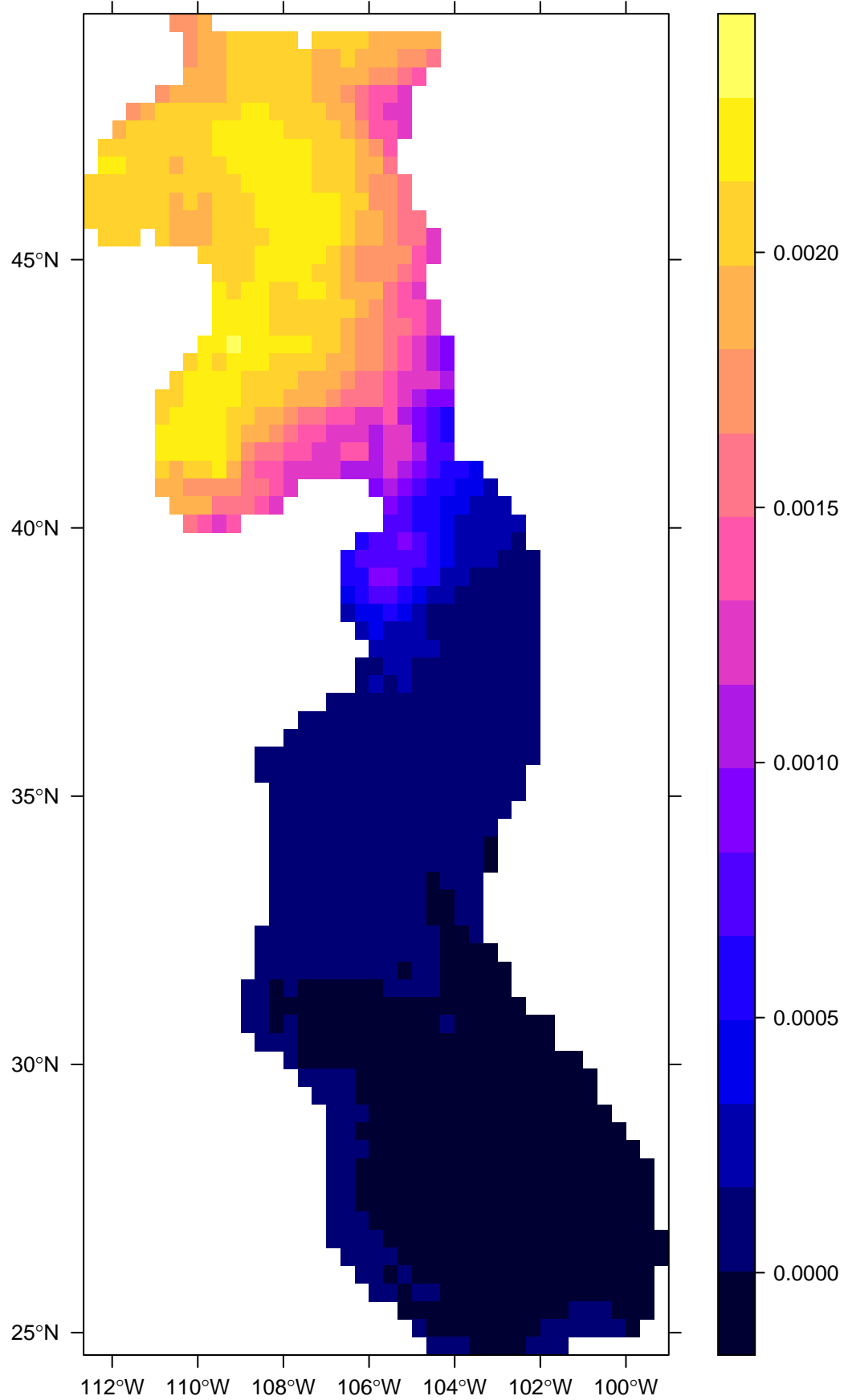
Probability Density Surface for adult_YR02_22



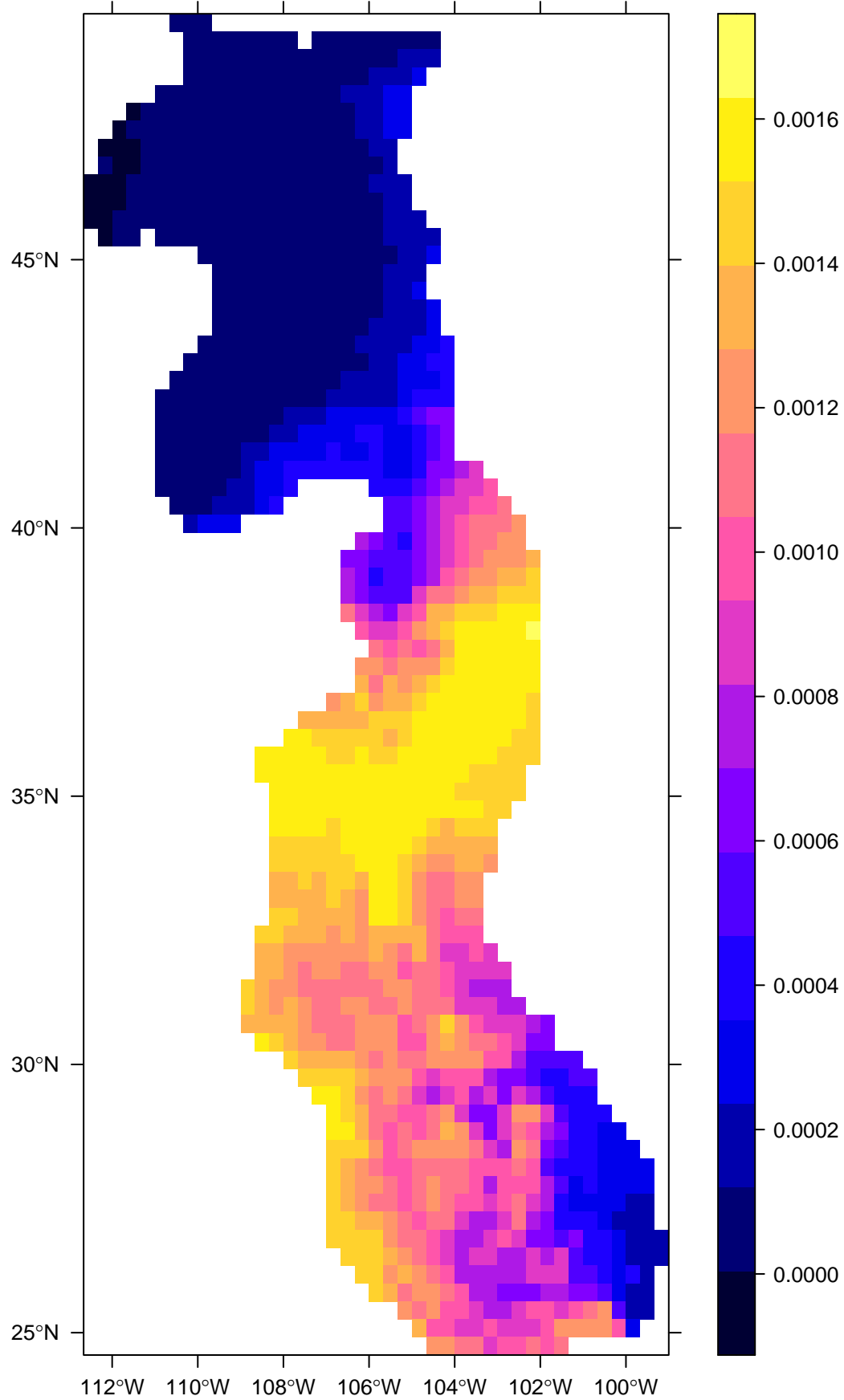
Probability Density Surface for adult_YR02_23



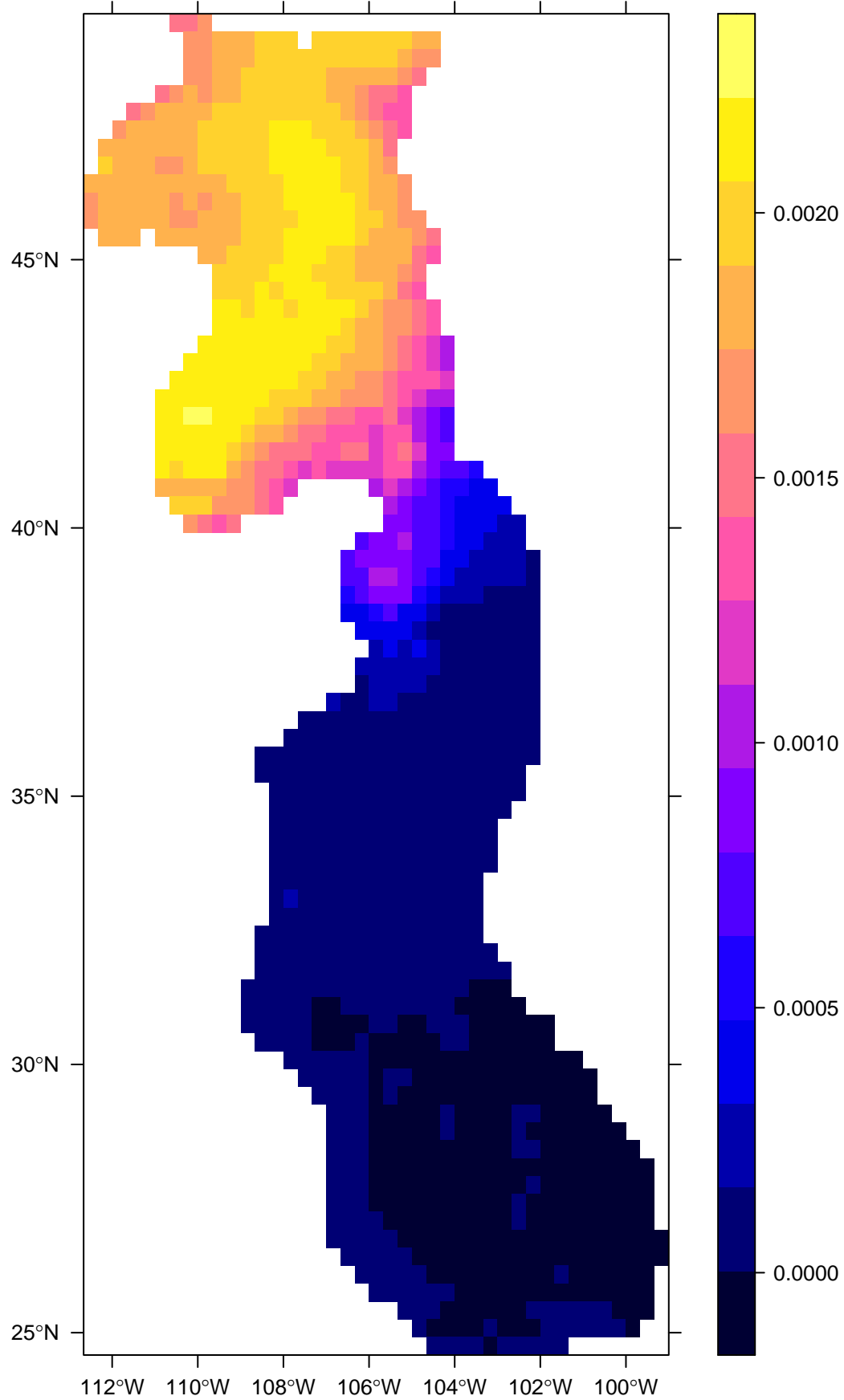
Probability Density Surface for adult_YR02_24



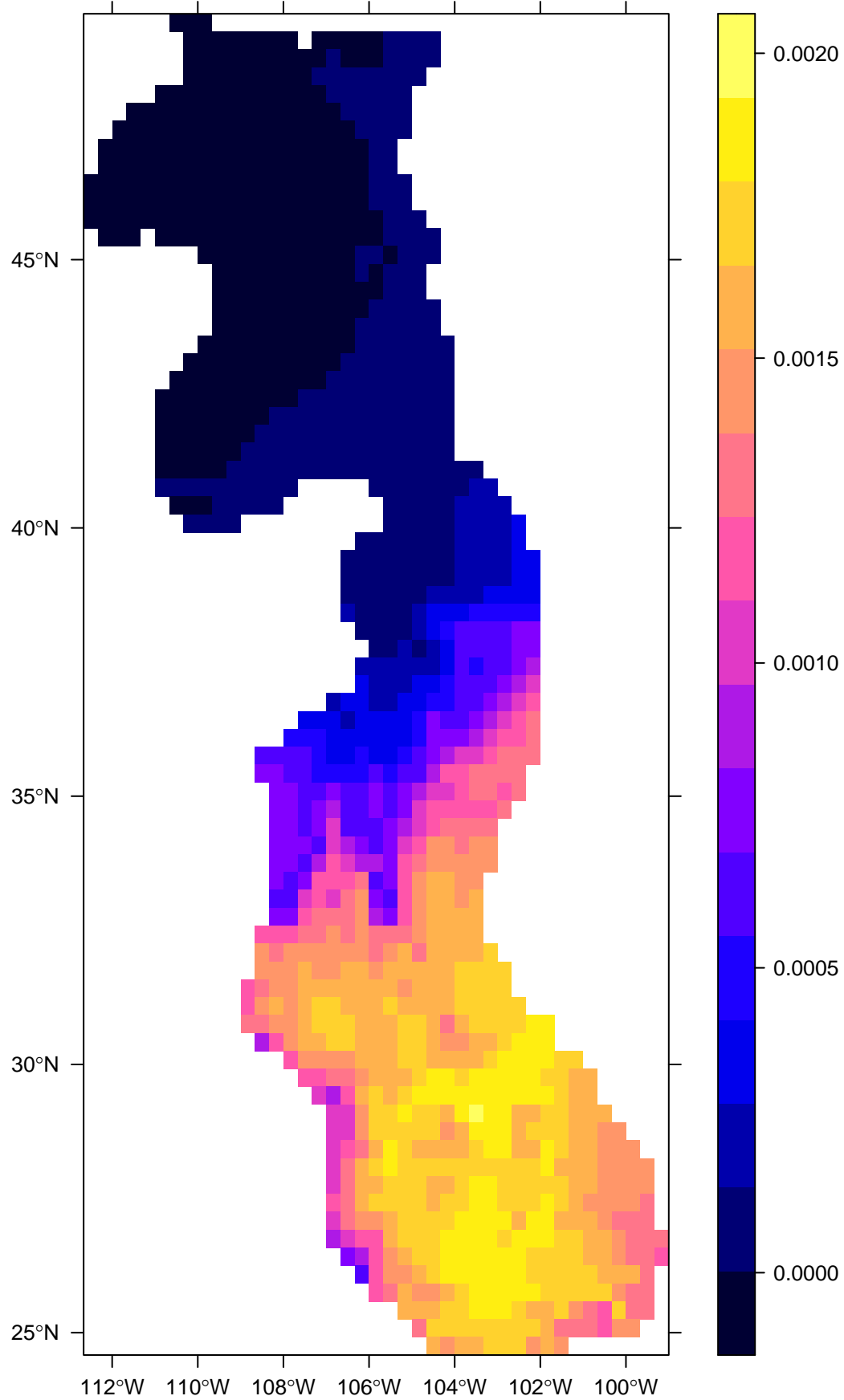
Probability Density Surface for adult_YR02_25



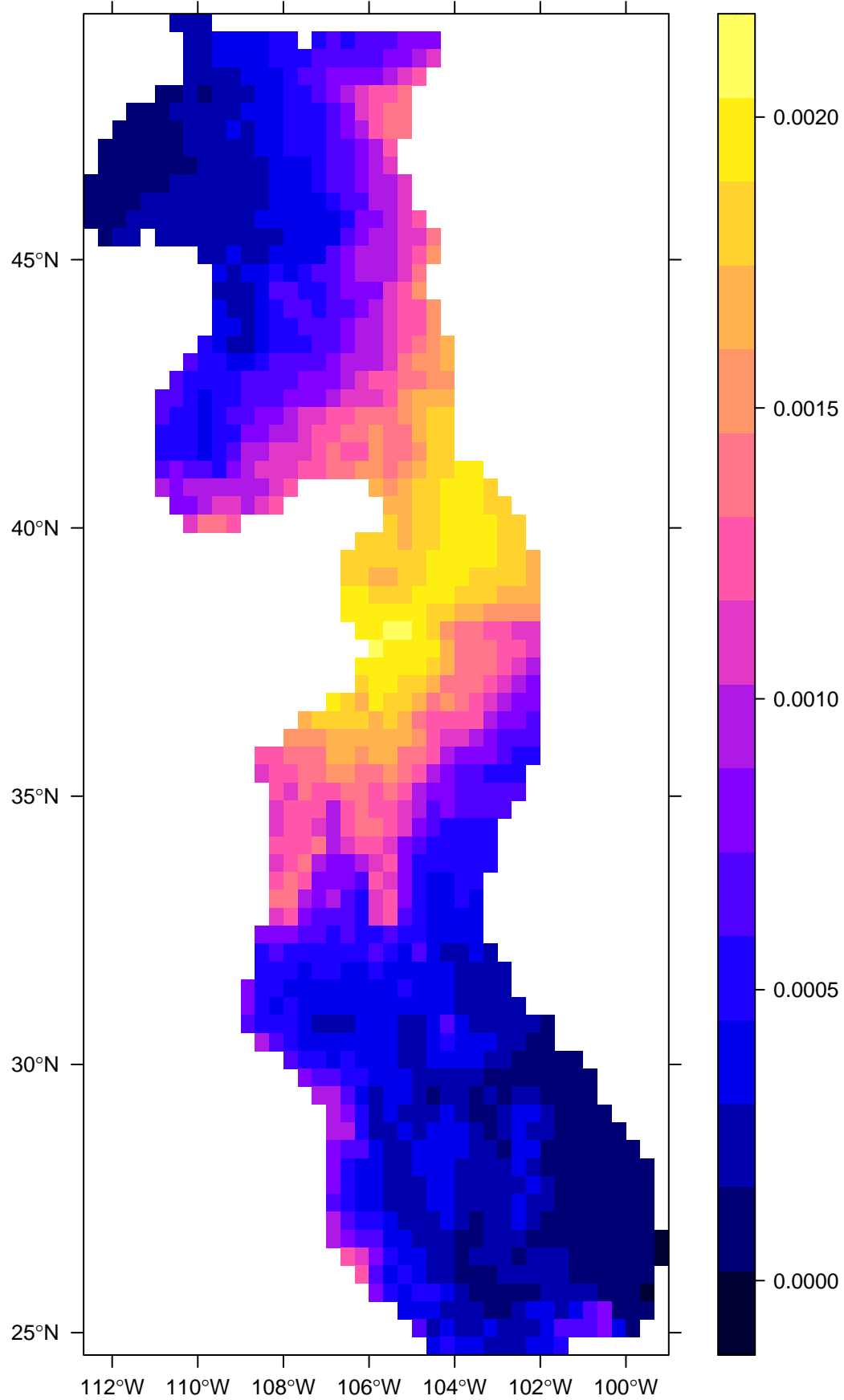
Probability Density Surface for adult_YR02_26



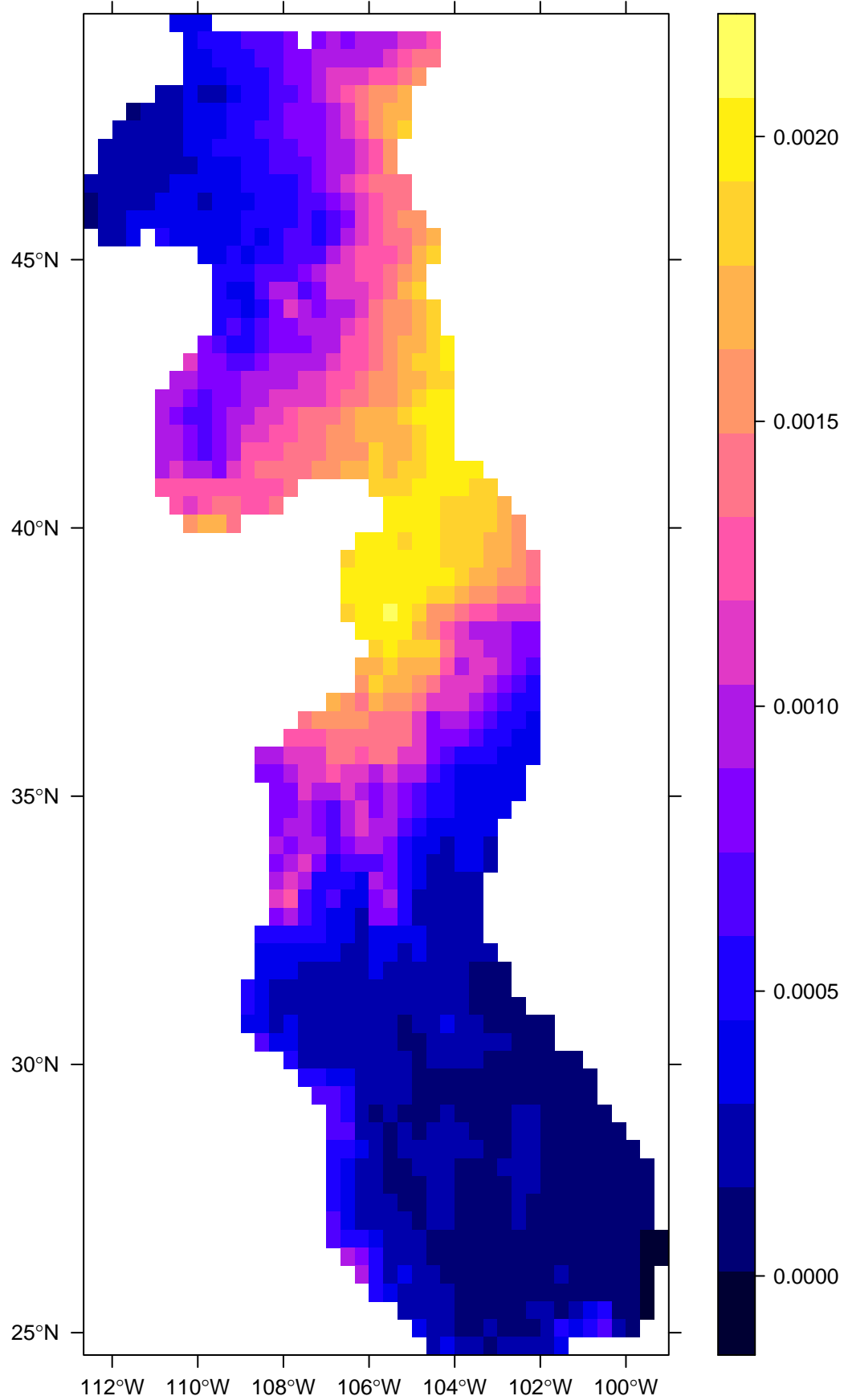
Probability Density Surface for adult_YR02_27



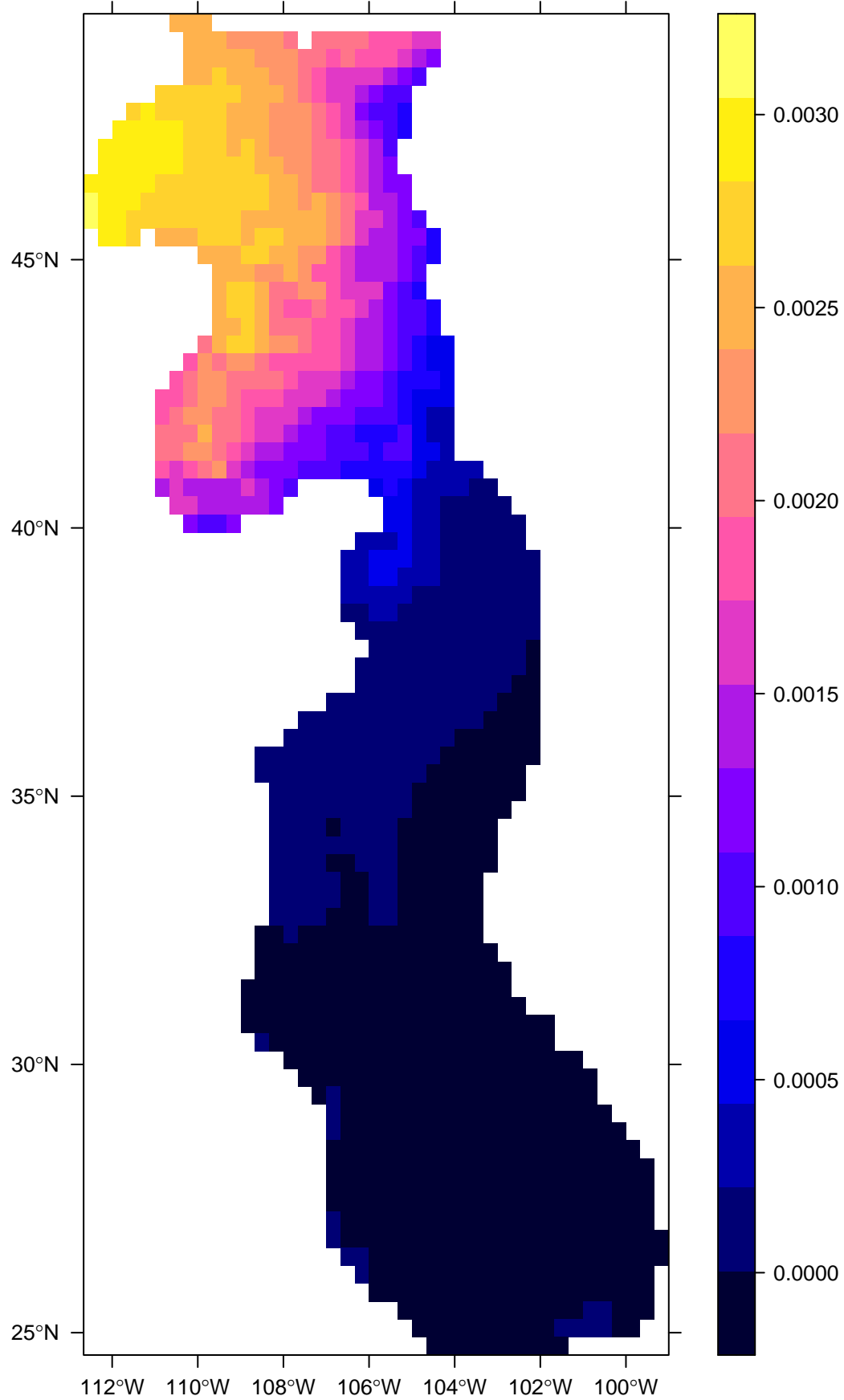
Probability Density Surface for adult_YR02_28



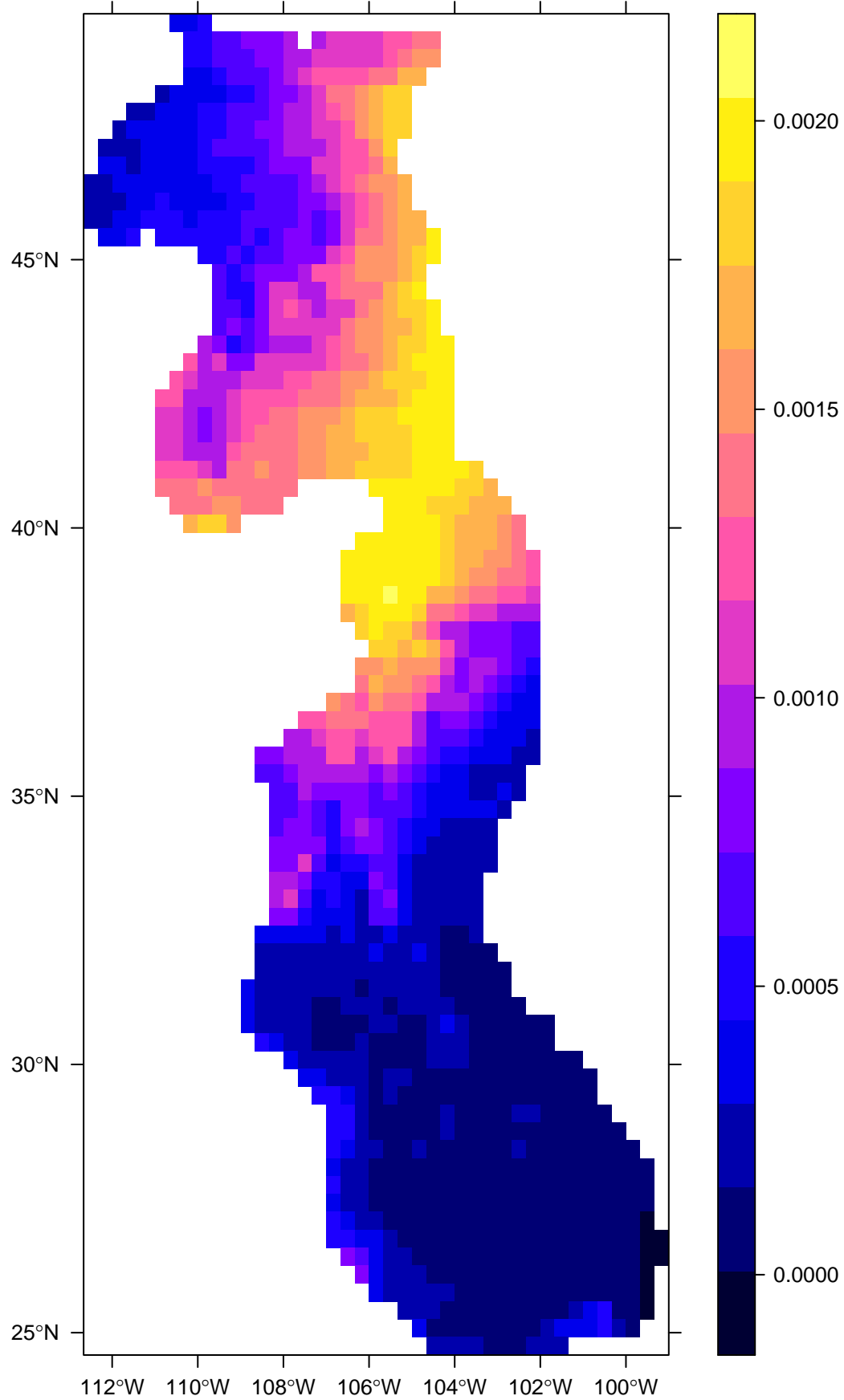
Probability Density Surface for adult_YR02_29



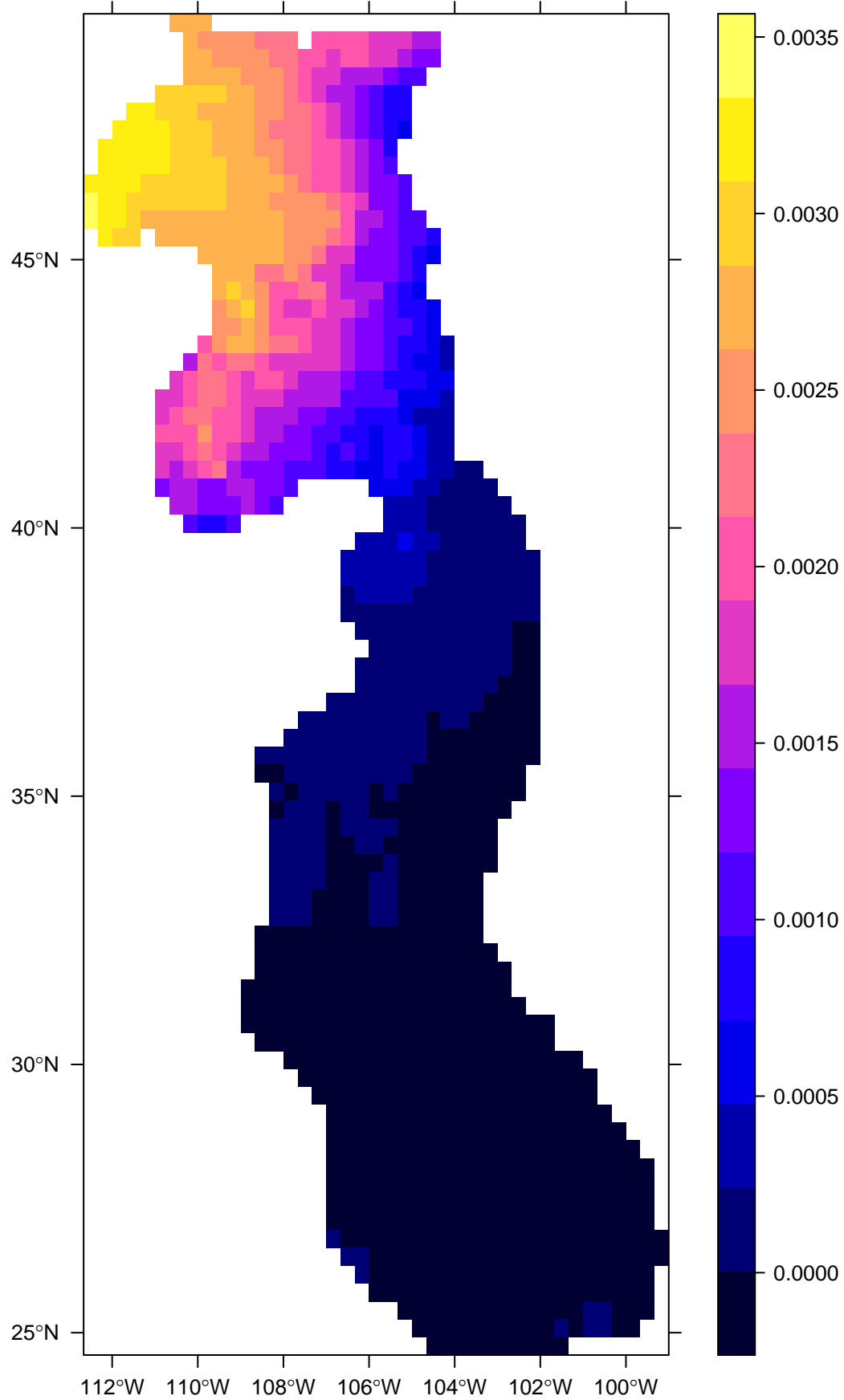
Probability Density Surface for adult_YR02_30



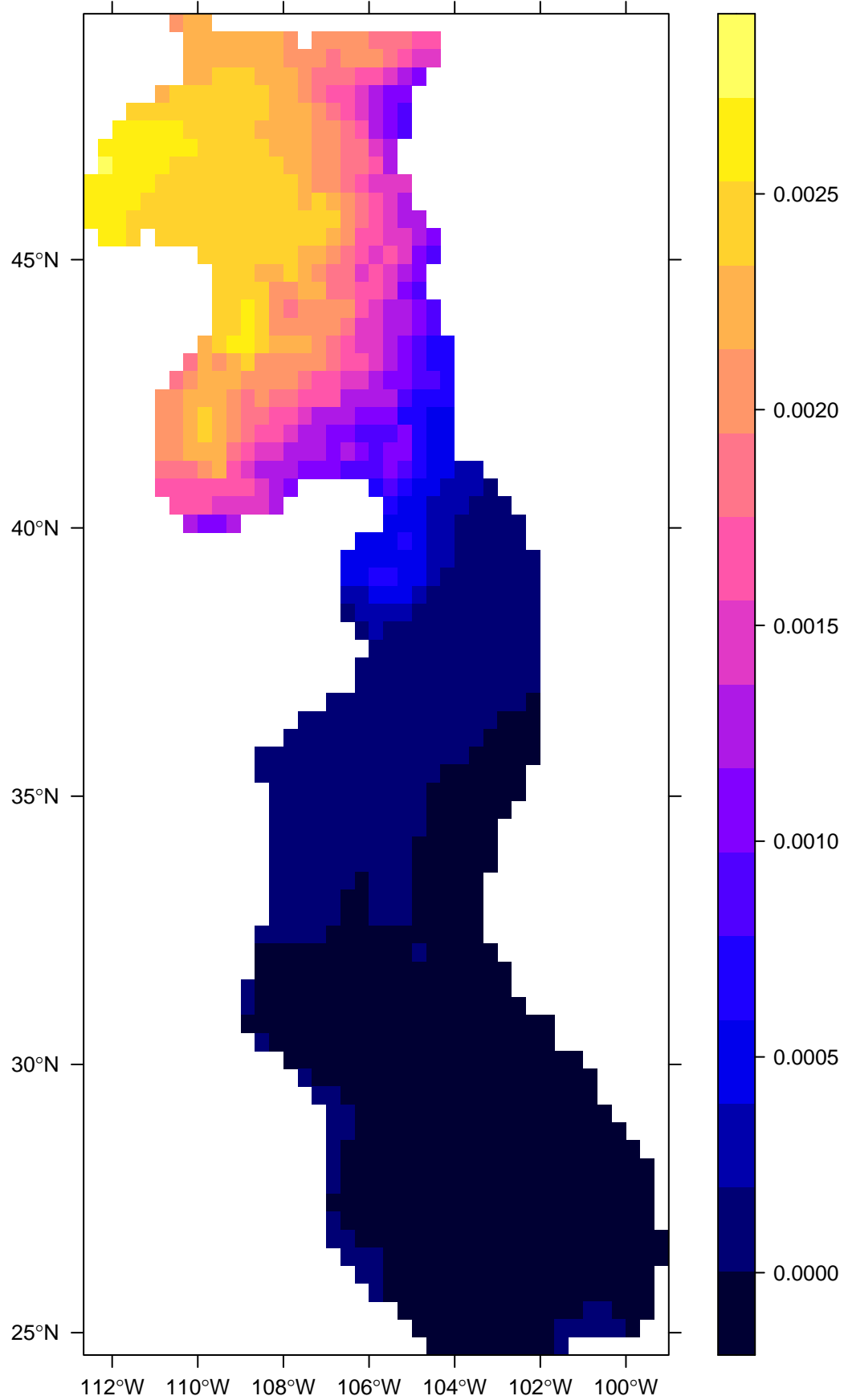
Probability Density Surface for adult_YR02_31



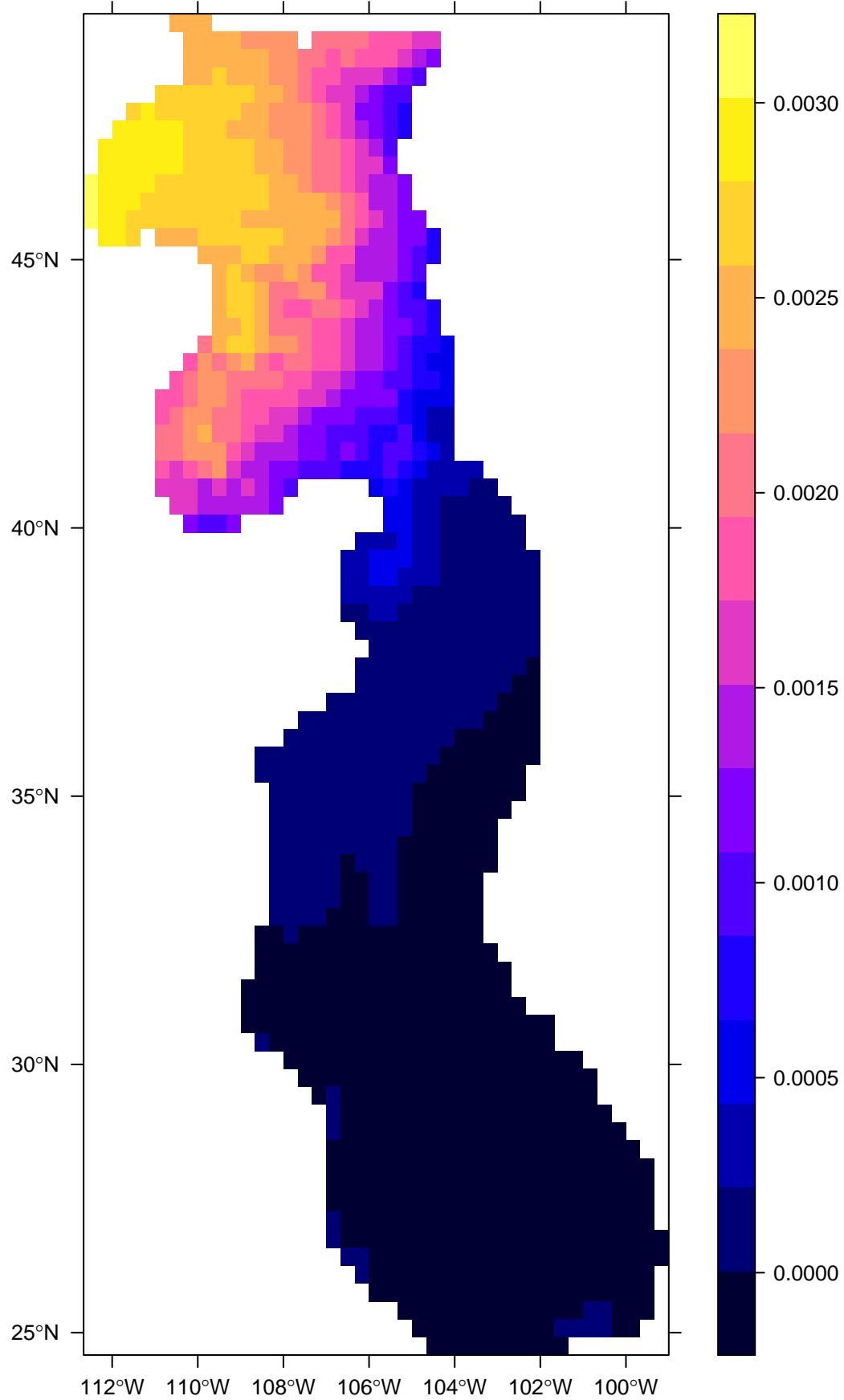
Probability Density Surface for adult_YR02_32



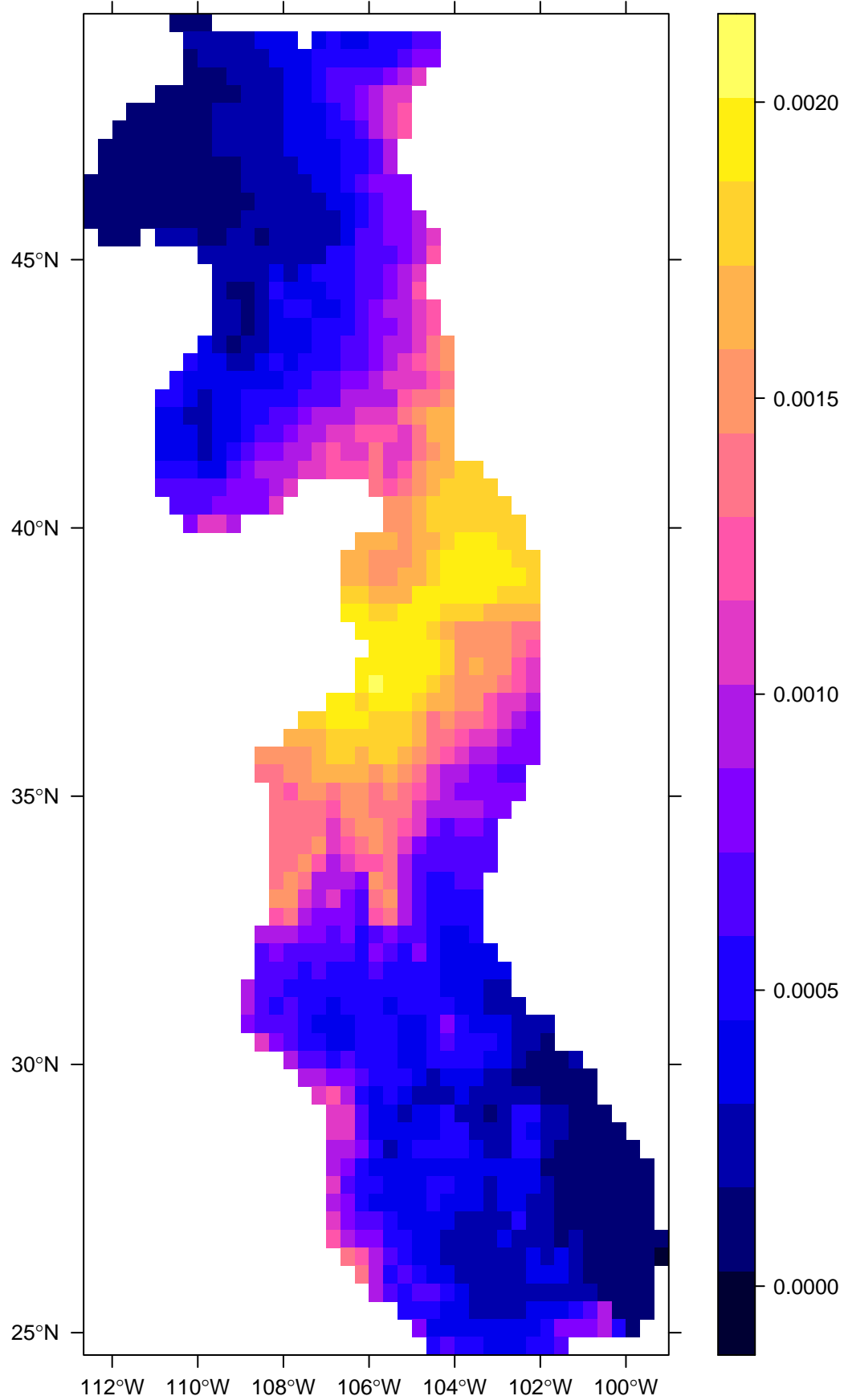
Probability Density Surface for adult_YR02_33



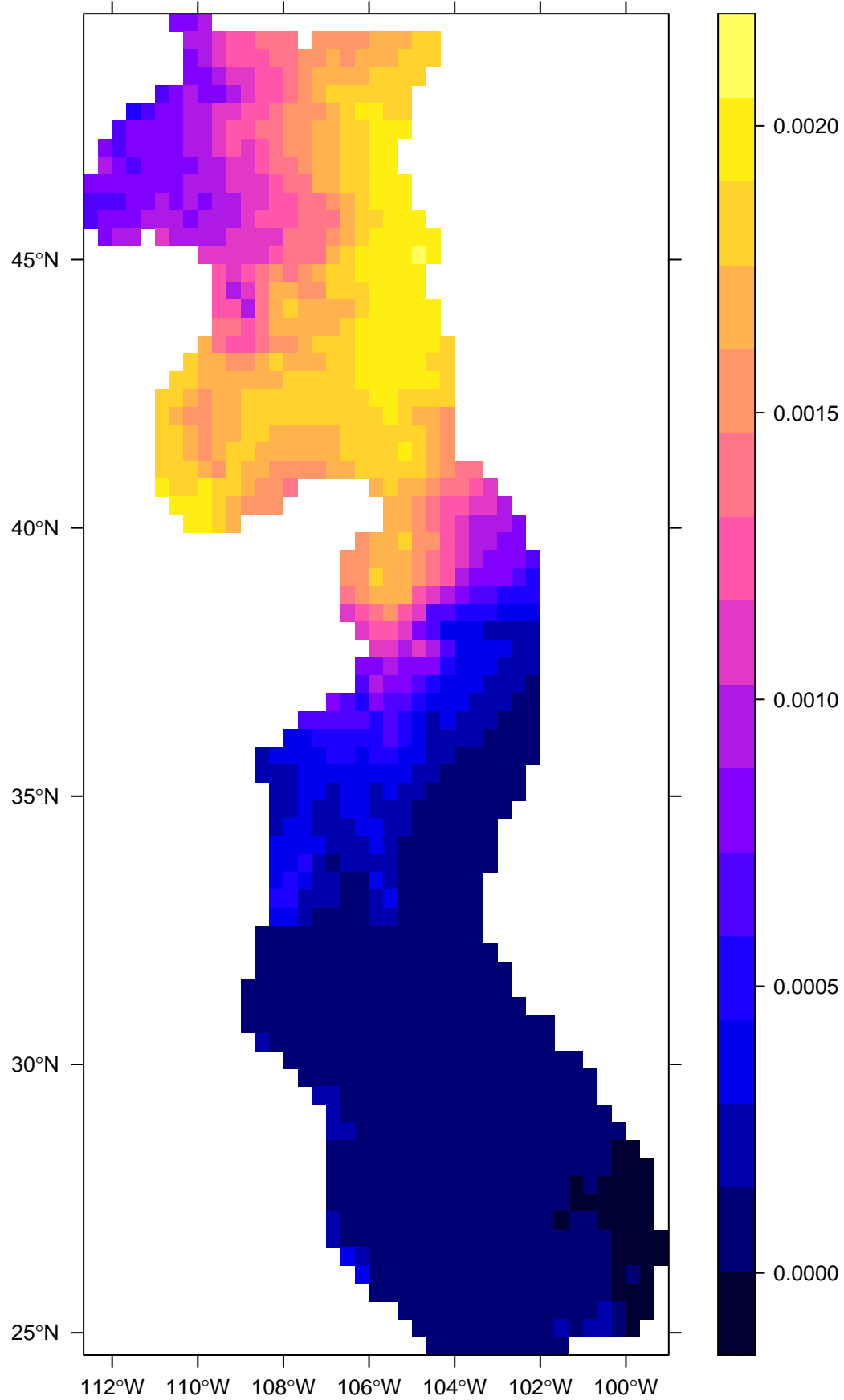
Probability Density Surface for adult_YR02_34



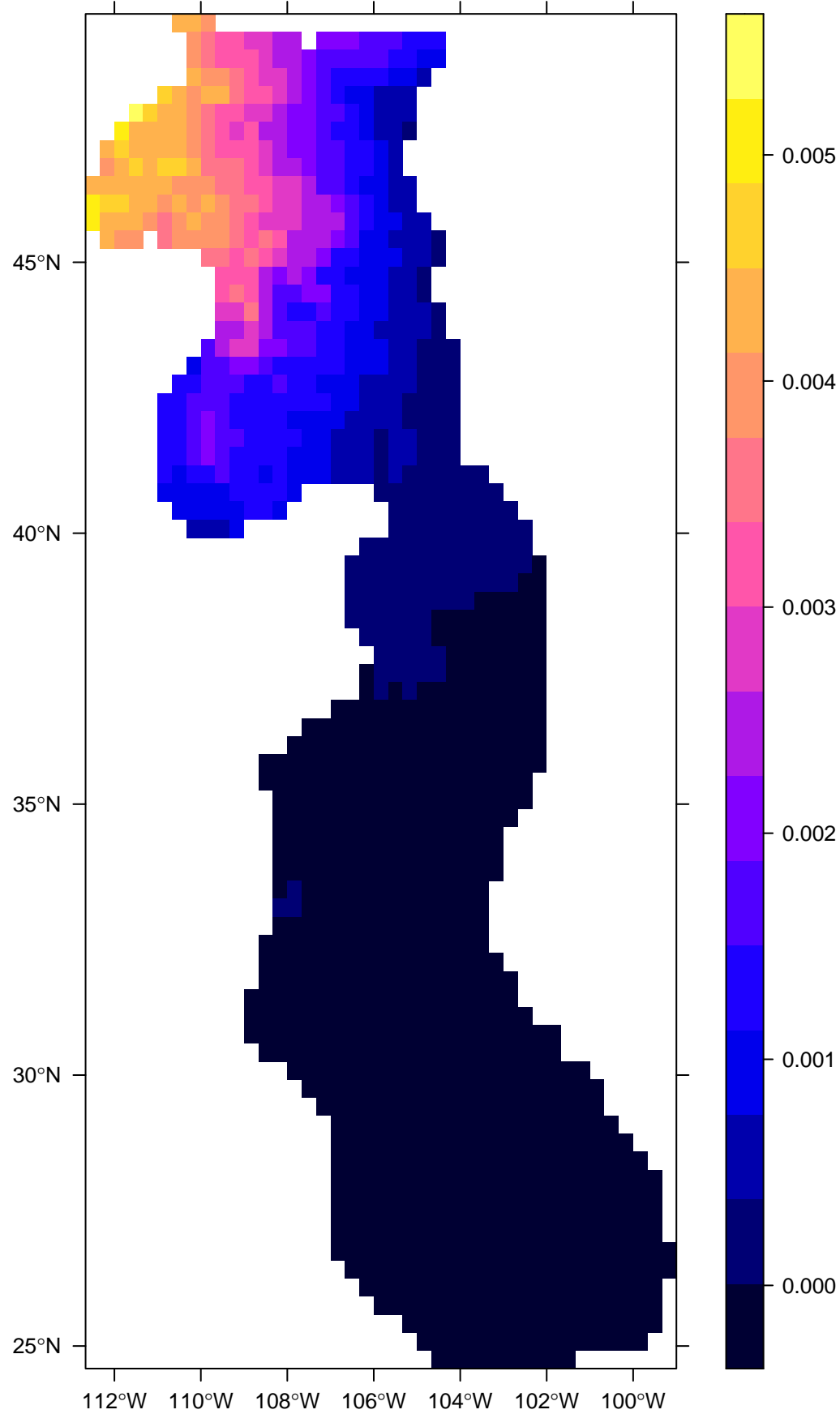
Probability Density Surface for adult_YR02_35



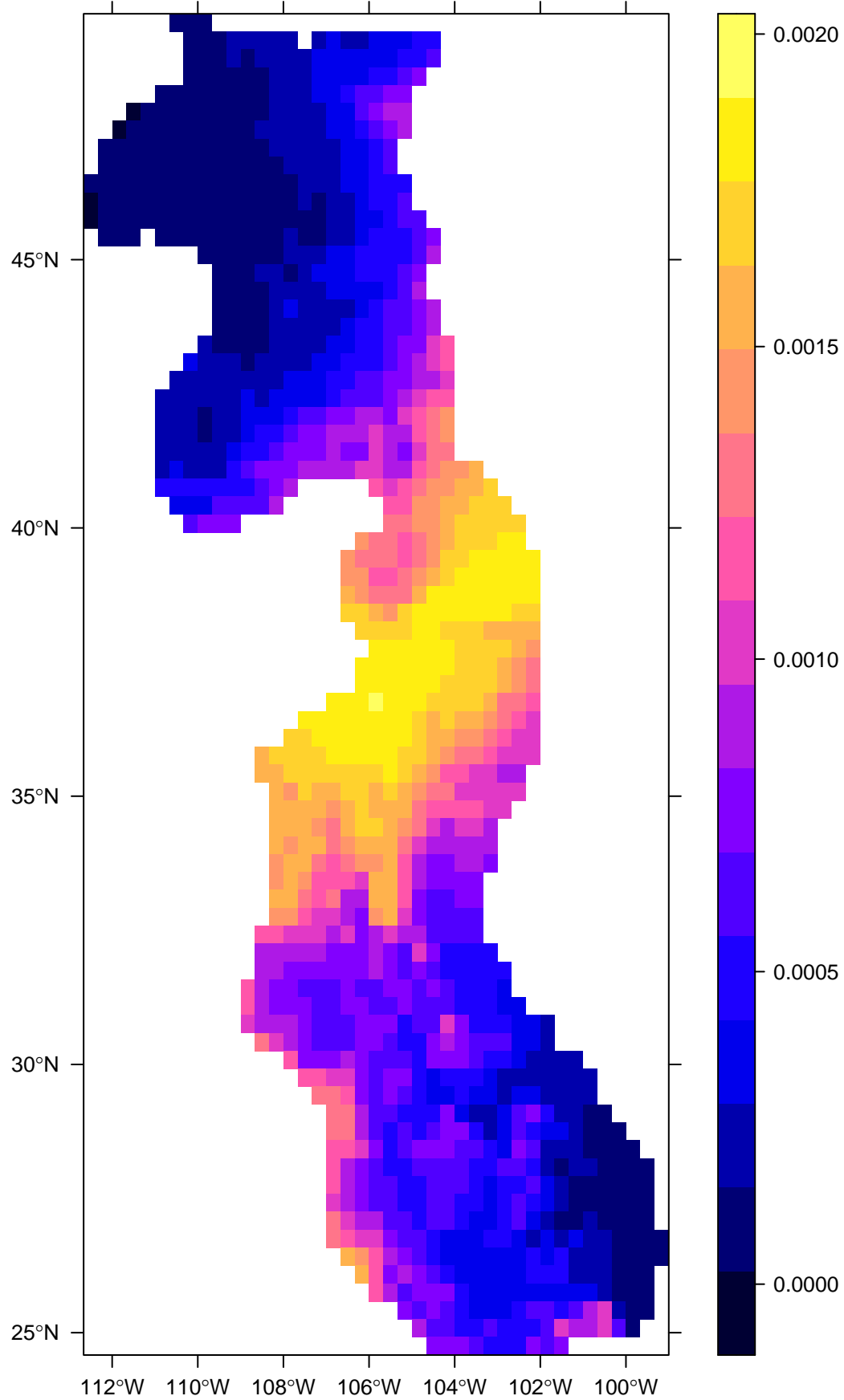
Probability Density Surface for adult_YR02_36



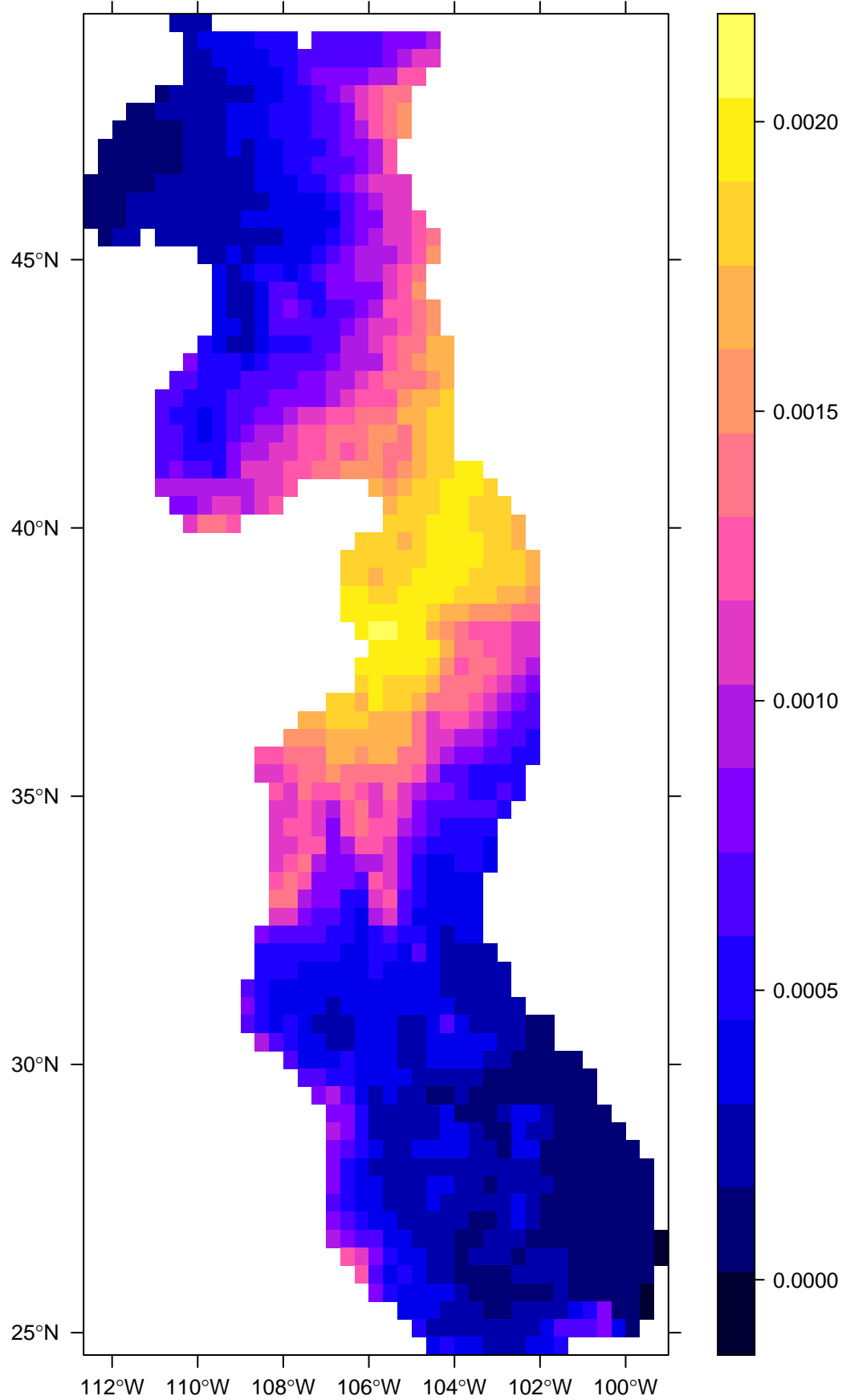
Probability Density Surface for adult_YR02_37



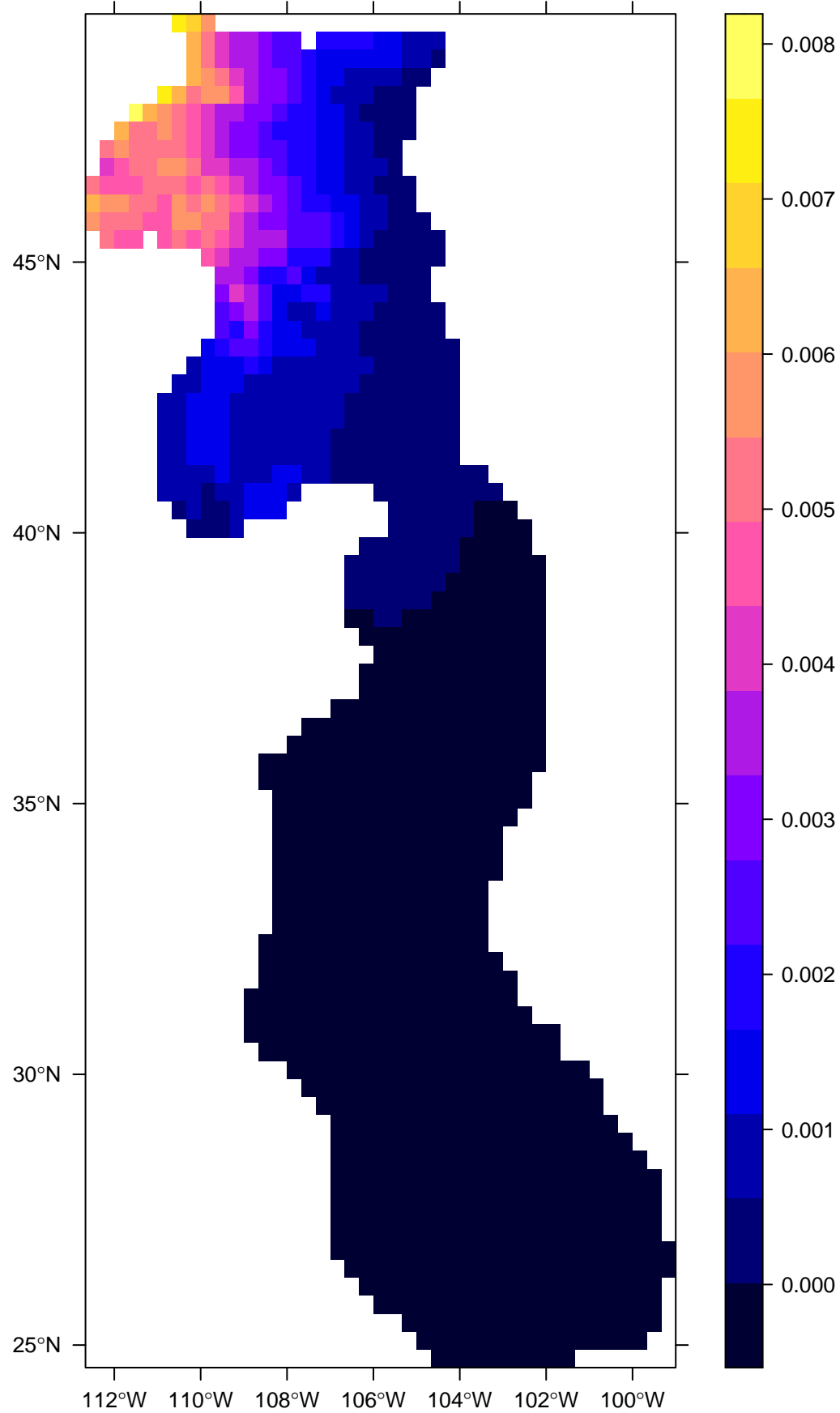
Probability Density Surface for adult_YR02_38



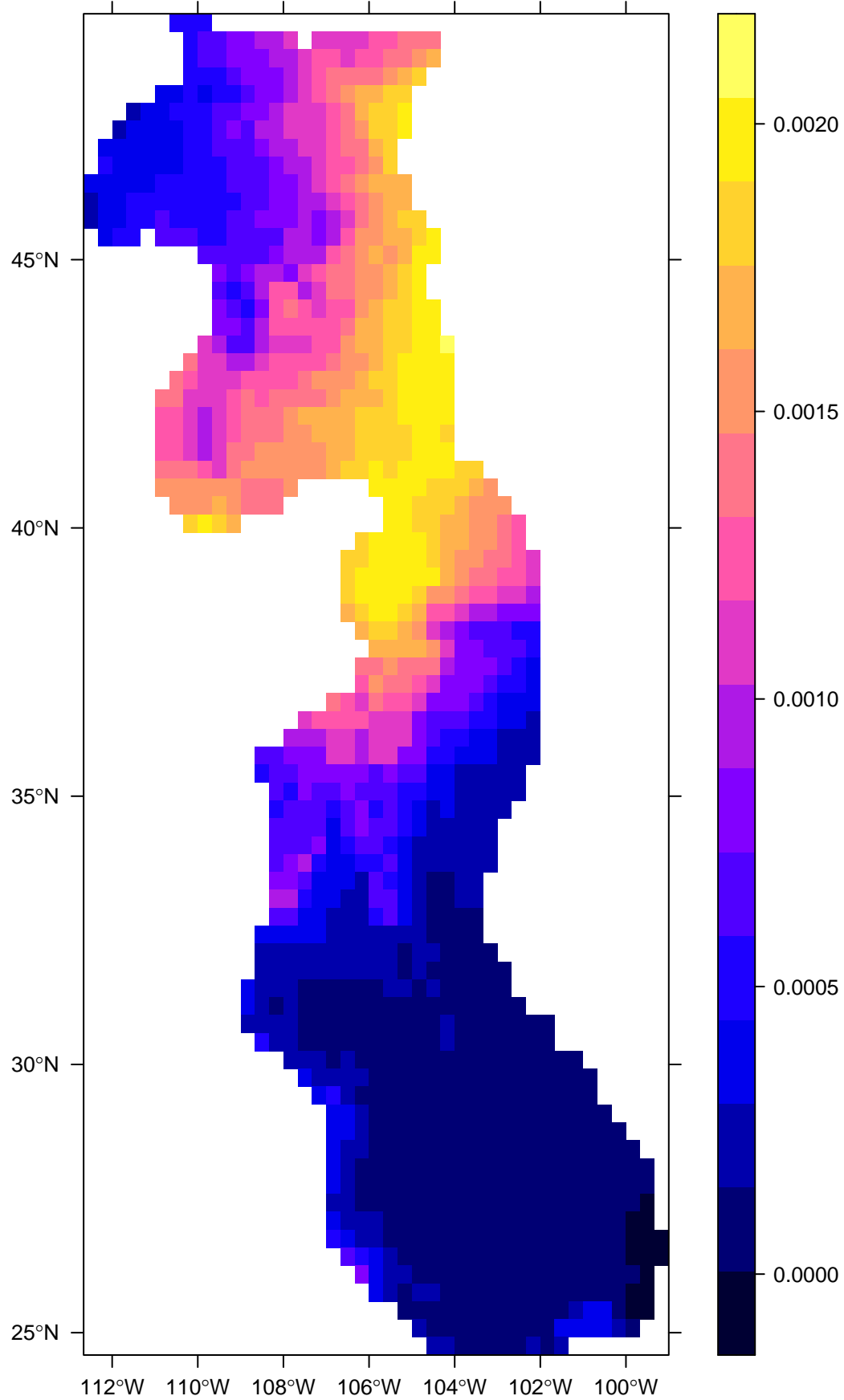
Probability Density Surface for adult_YR02_39



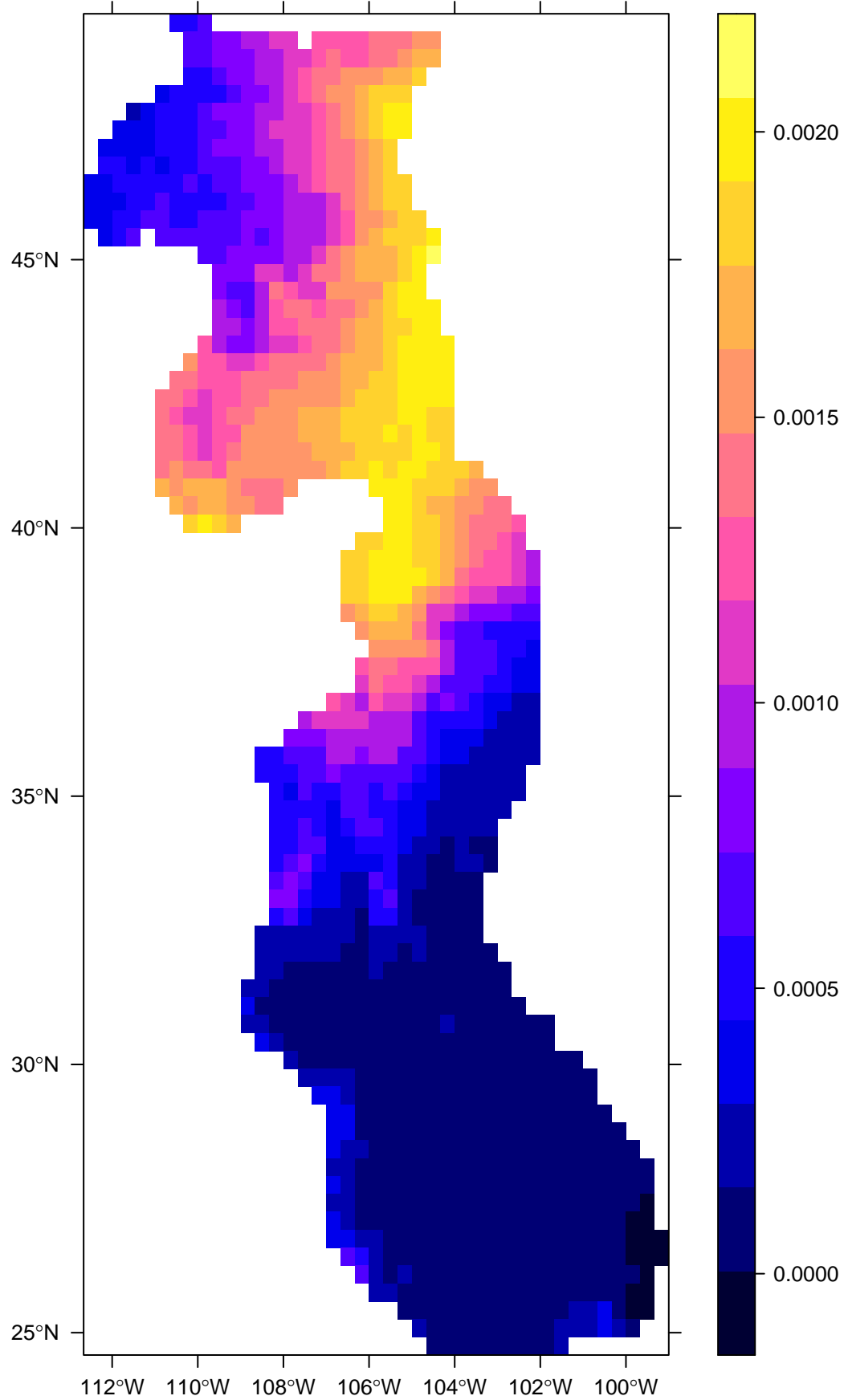
Probability Density Surface for adult_YR02_40



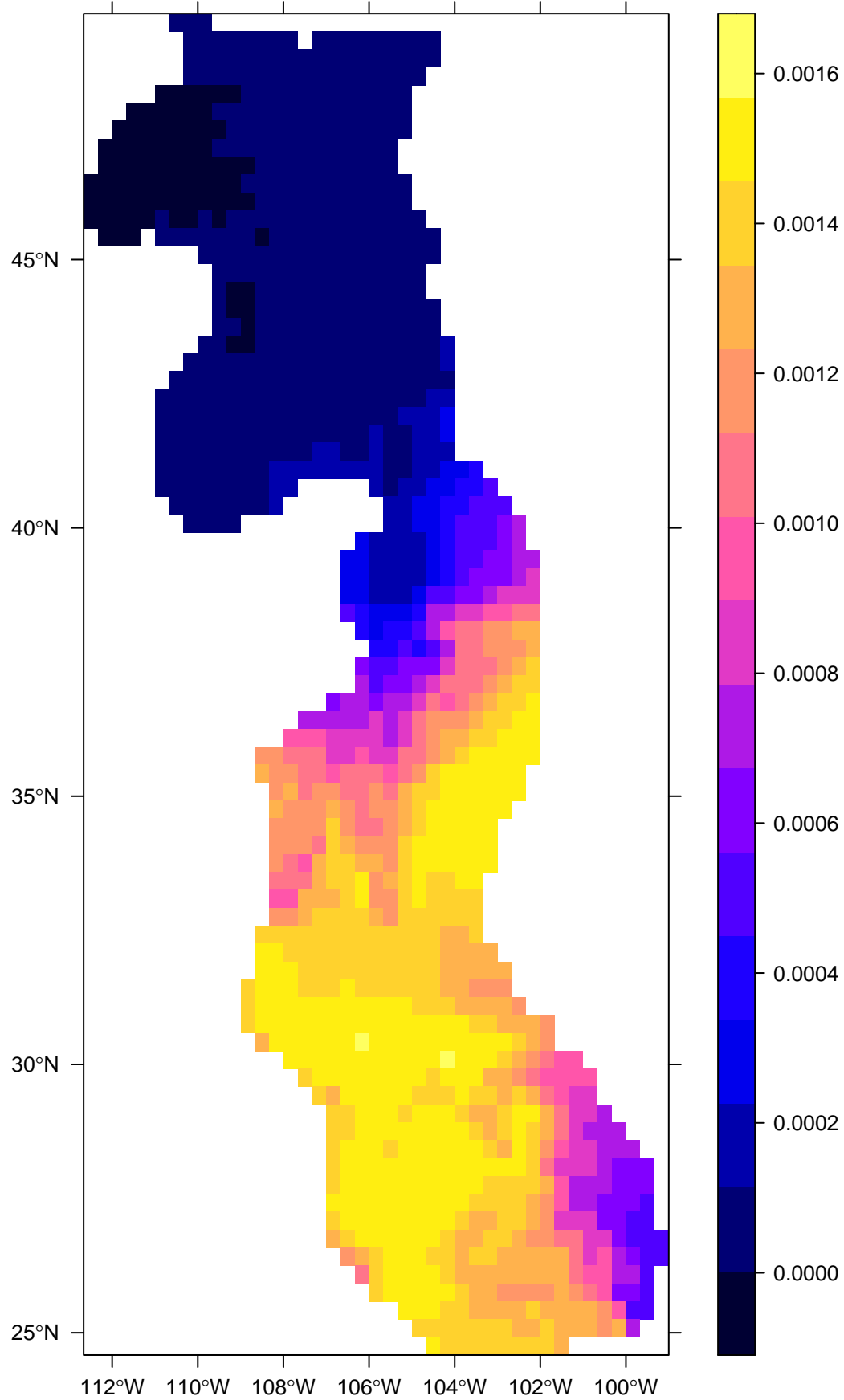
Probability Density Surface for adult_YR02_41



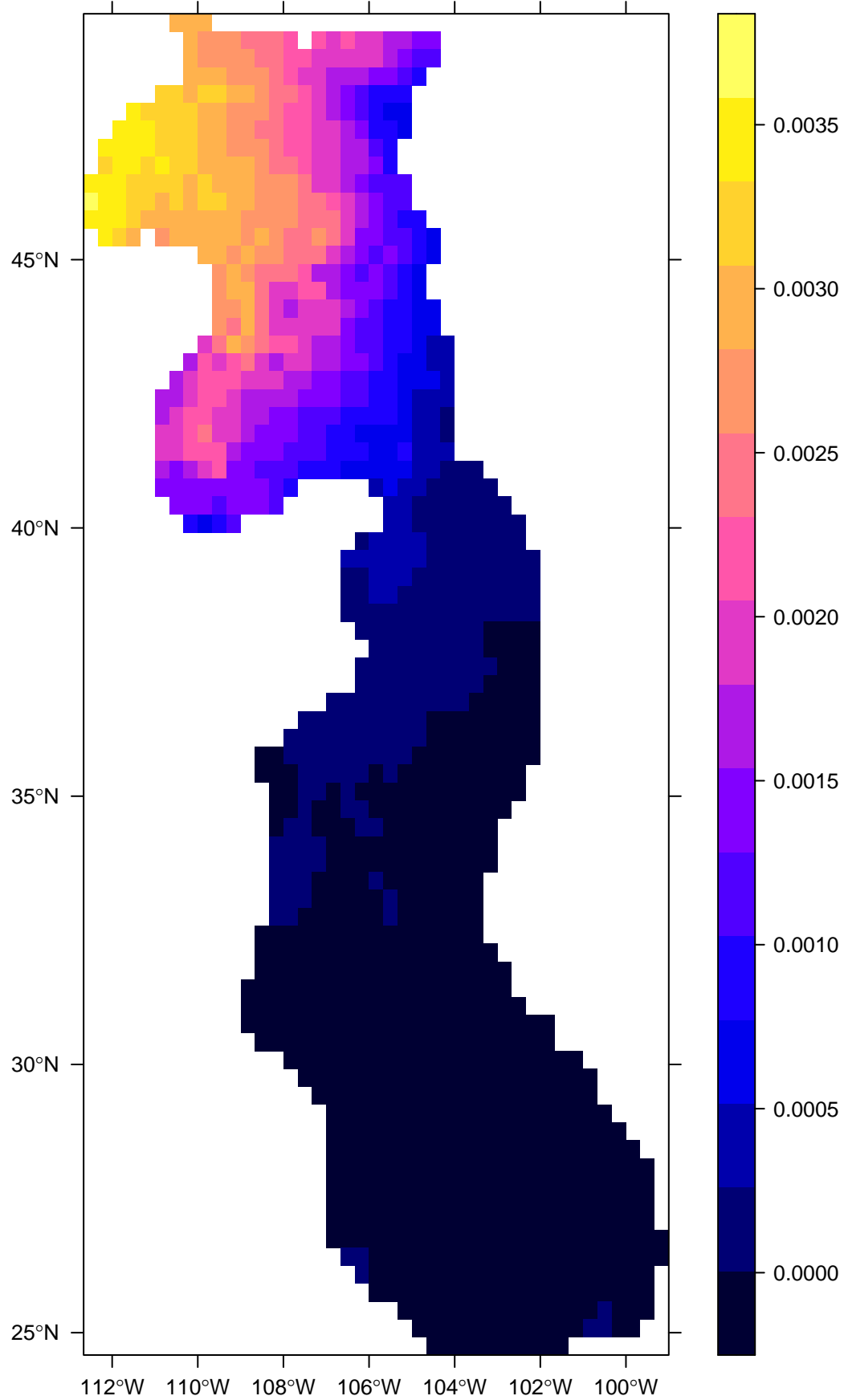
Probability Density Surface for adult_YR02_42



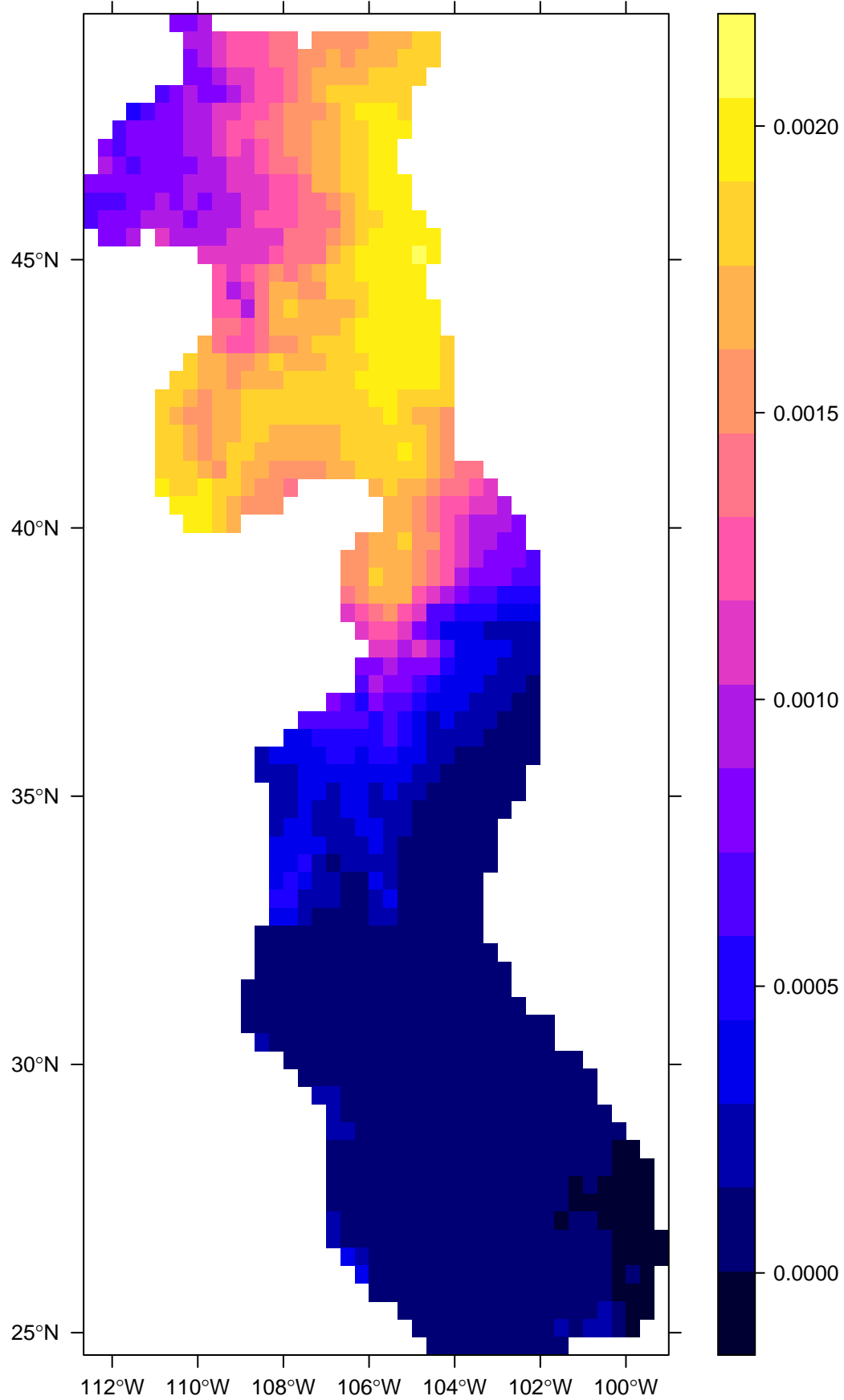
Probability Density Surface for adult_YR02_43



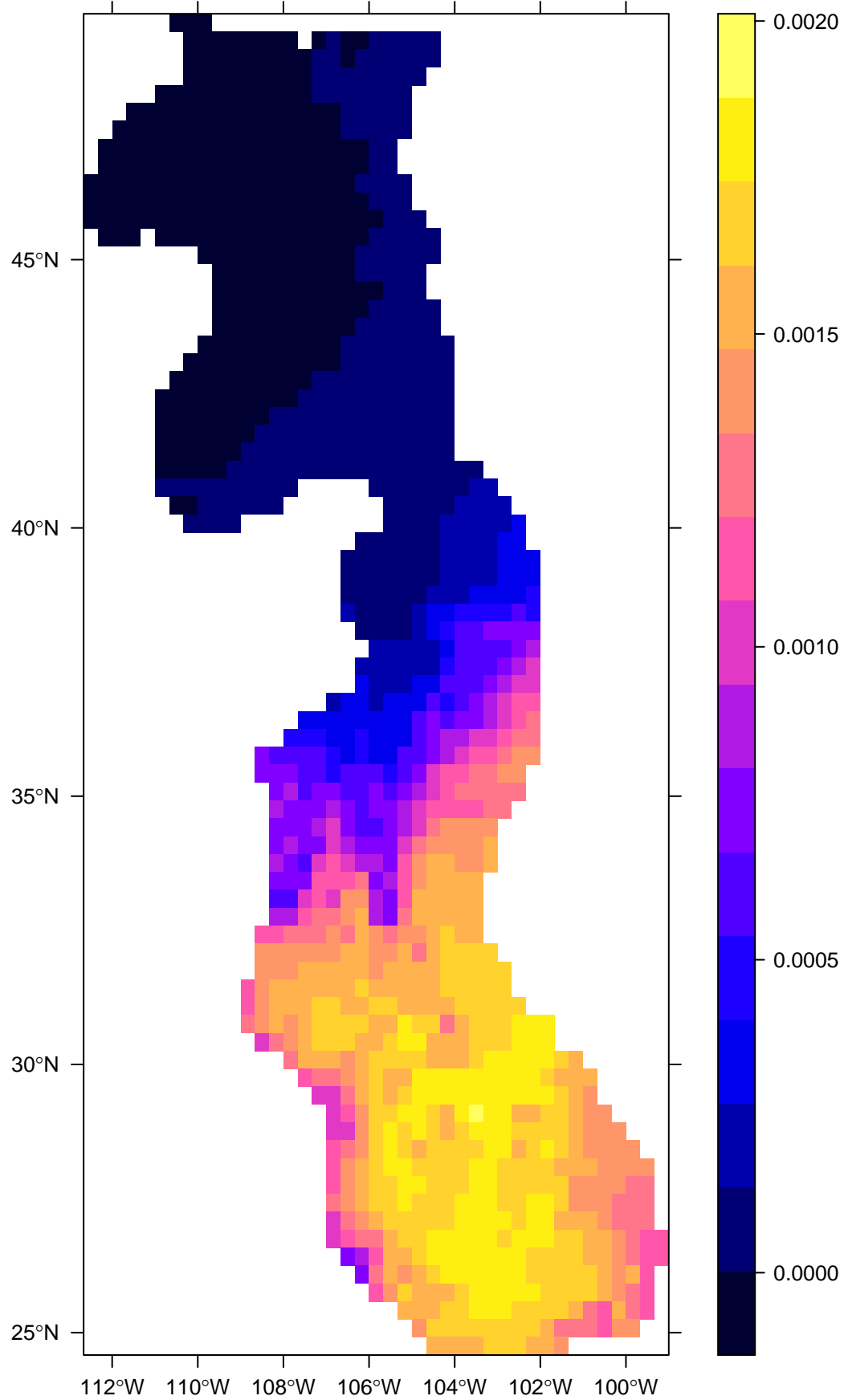
Probability Density Surface for adult_YR02_44



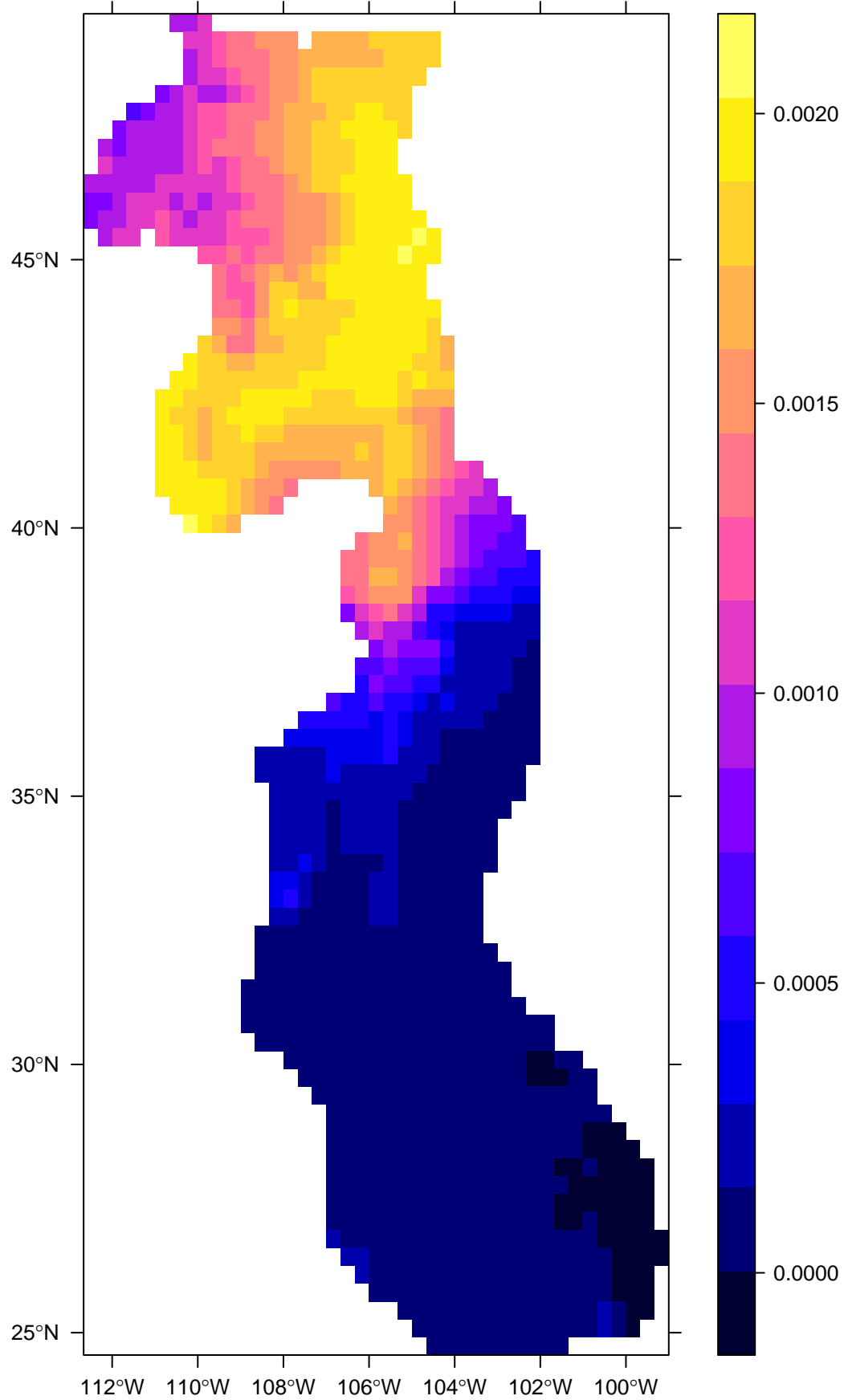
Probability Density Surface for adult_YR02_45



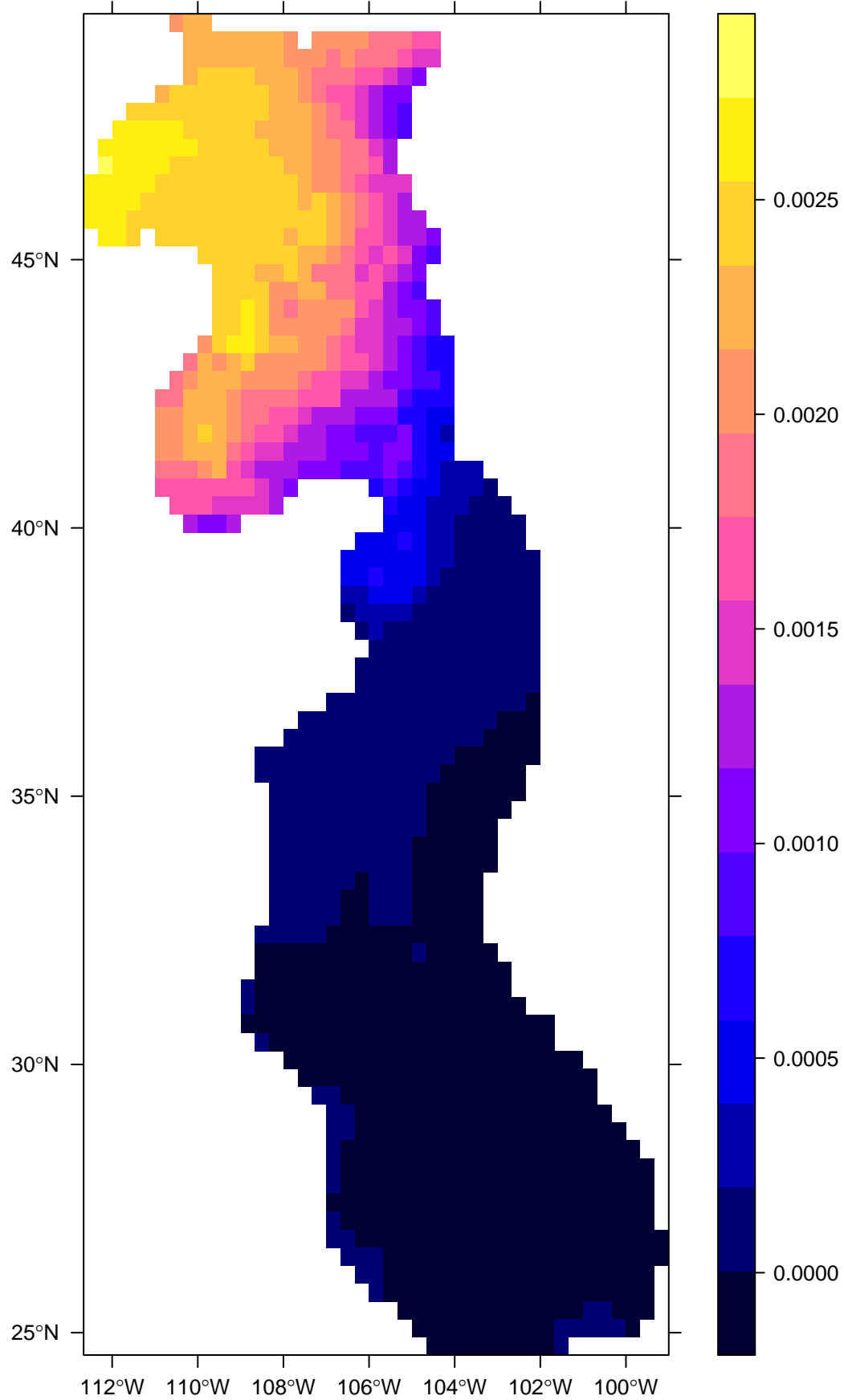
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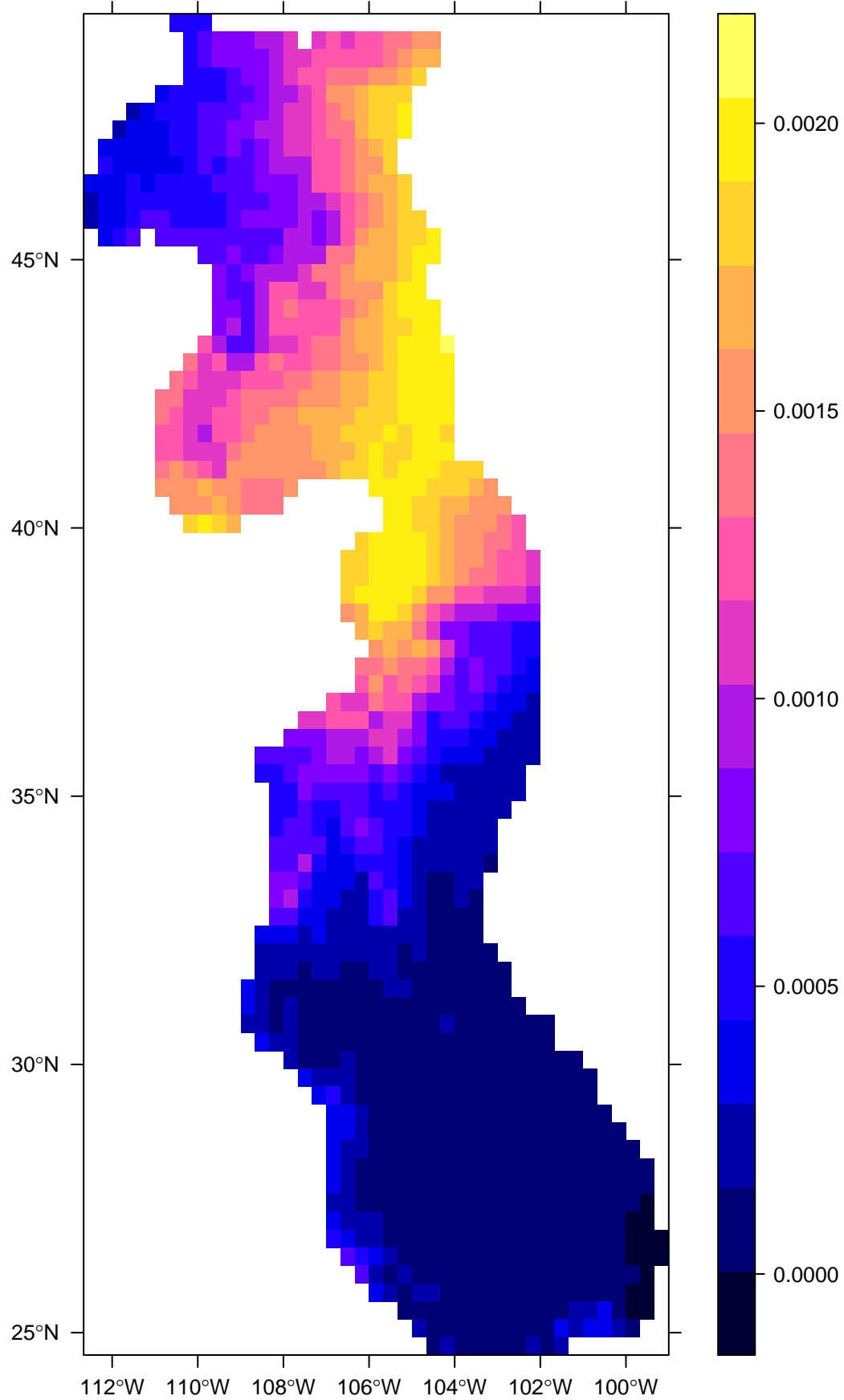
Probability Density Surface for adult_YR02_47



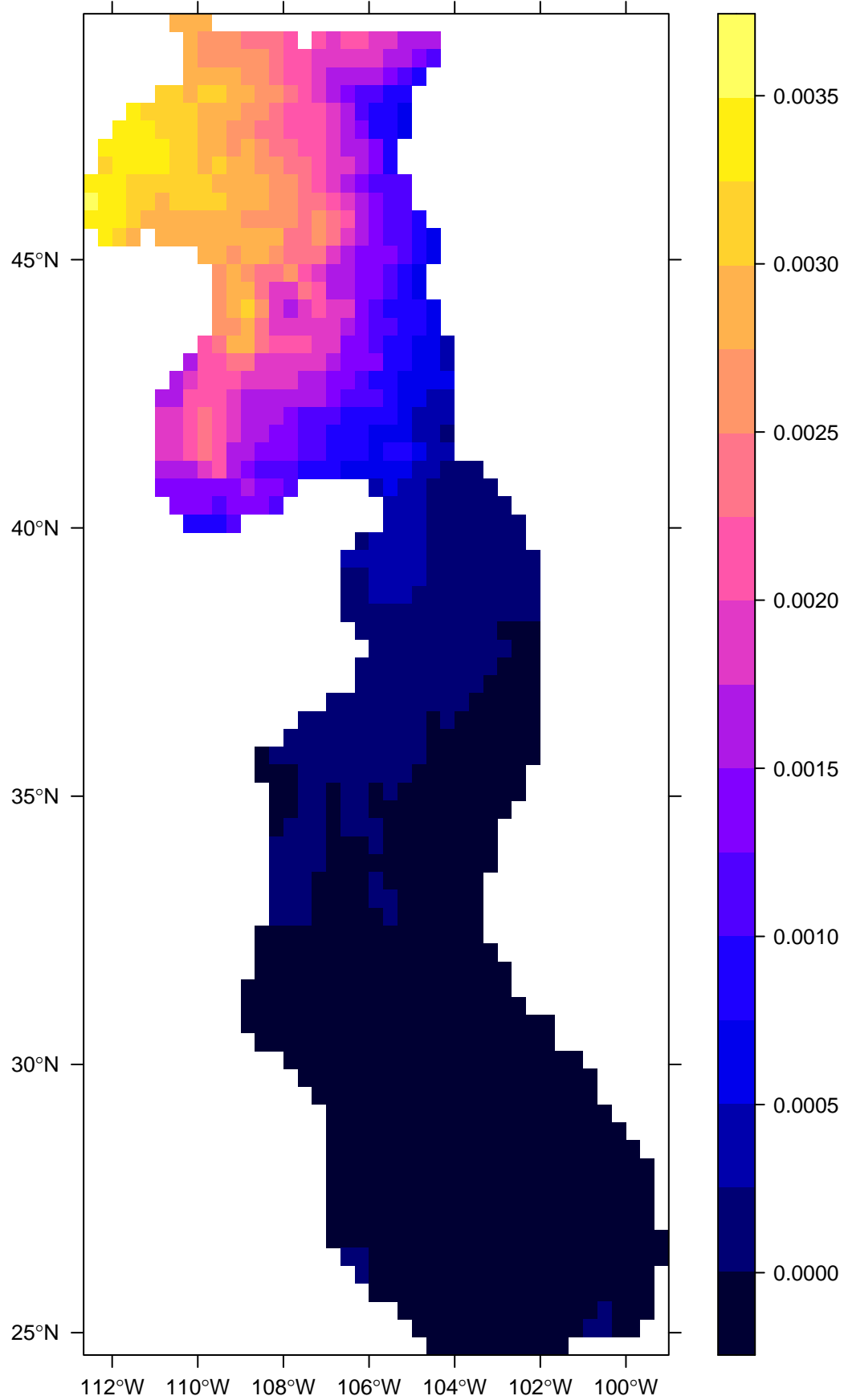
Probability Density Surface for adult_YR02_48



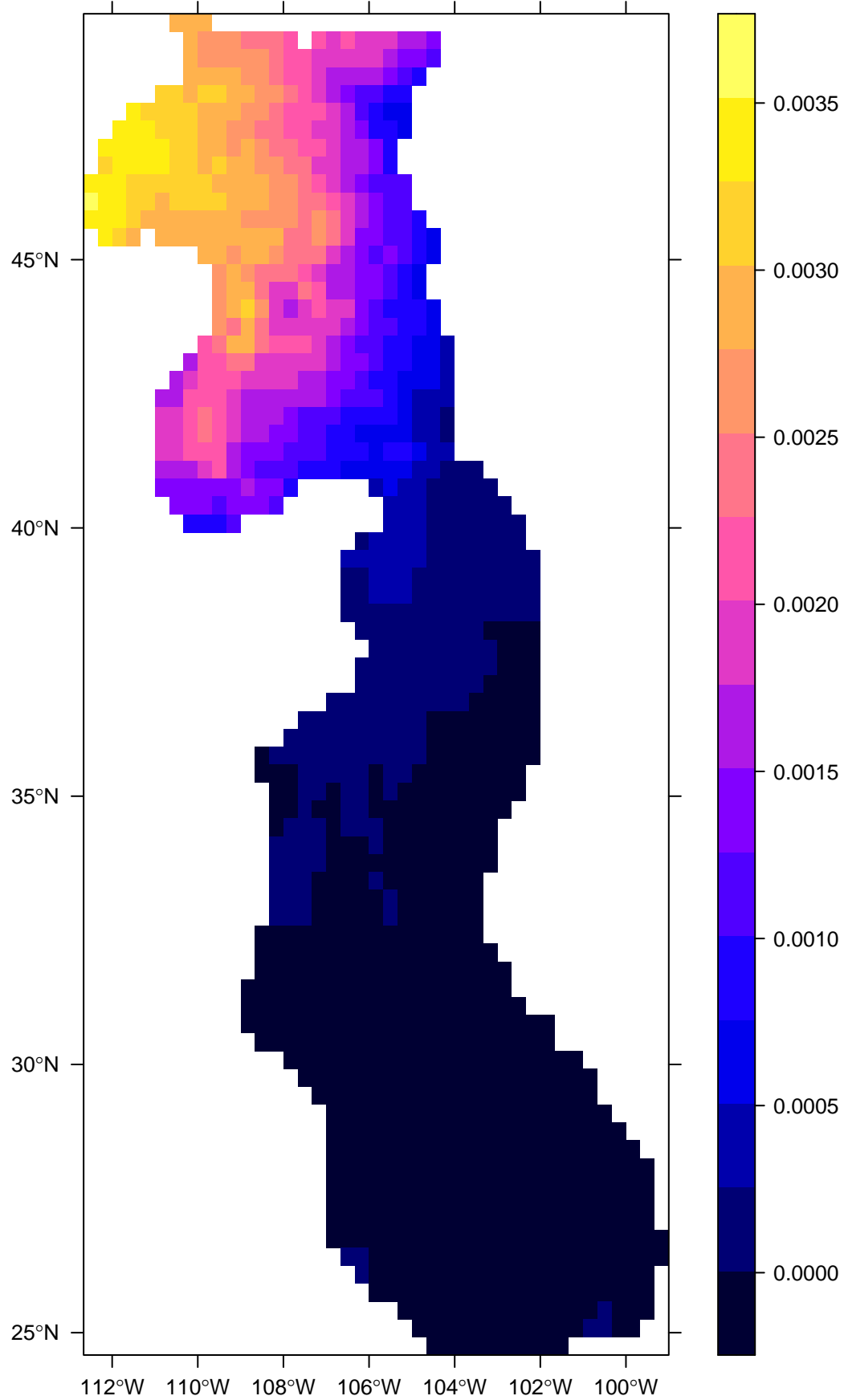
Probability Density Surface for adult_YR02_49



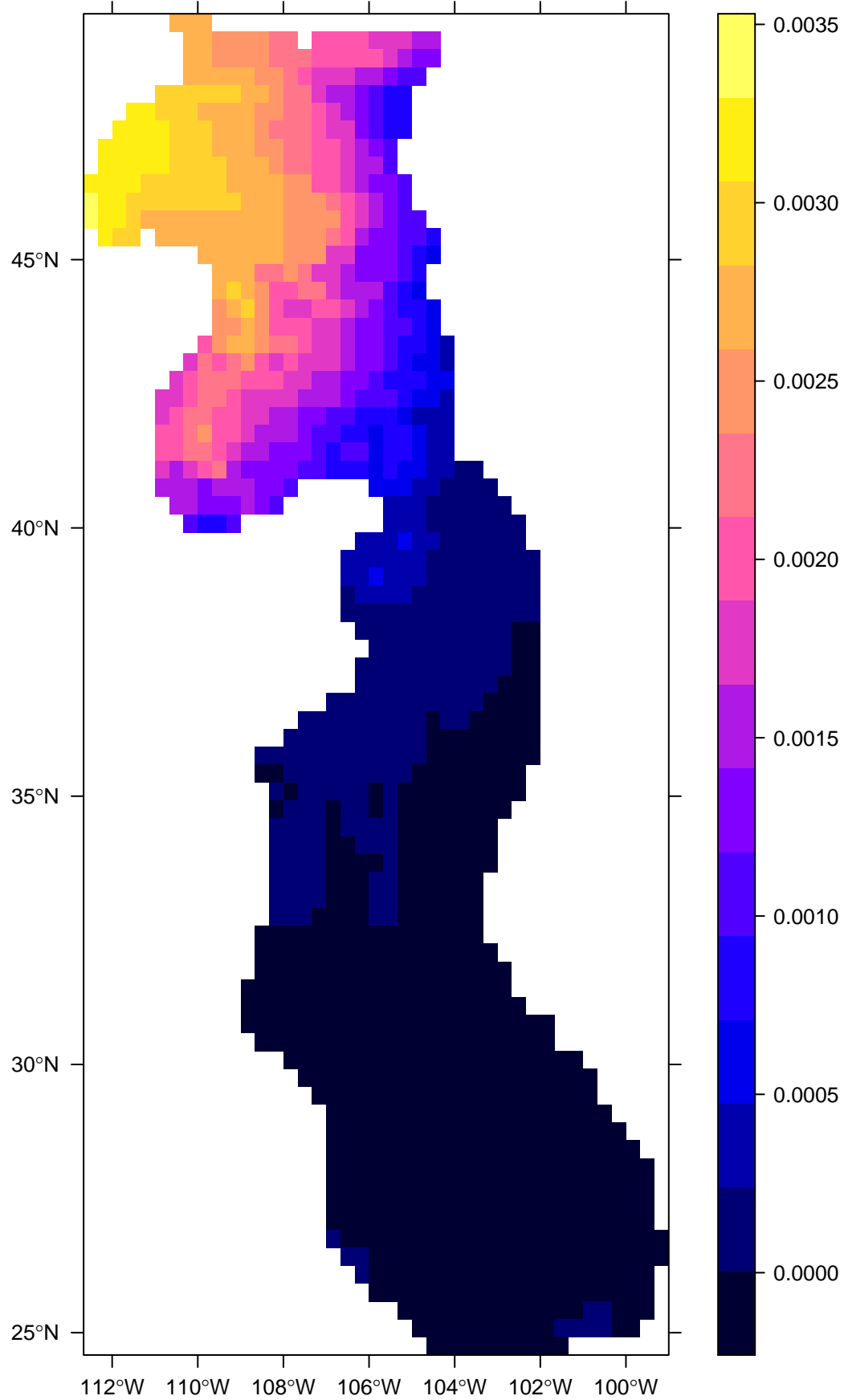
Probability Density Surface for adult_YR02_50



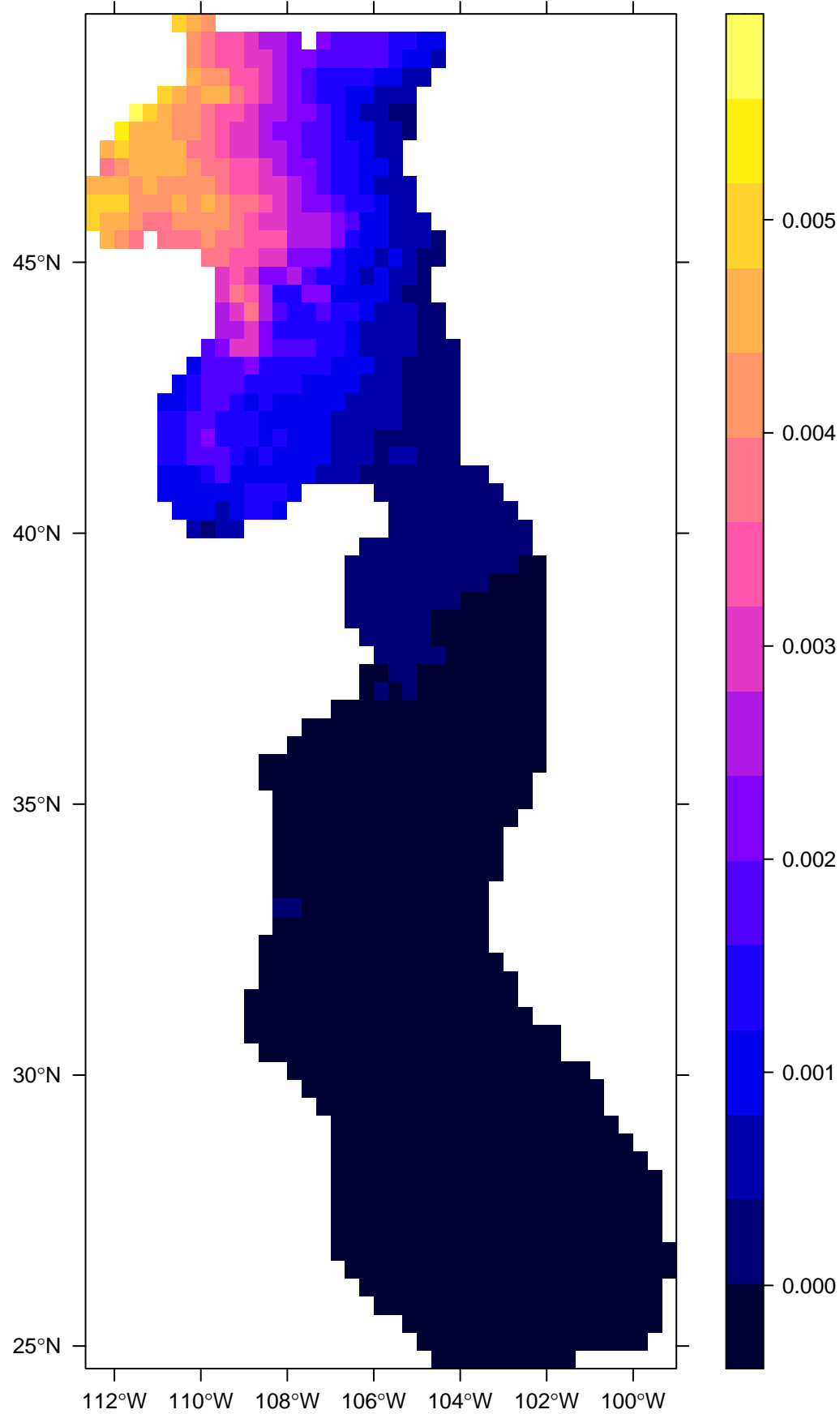
Probability Density Surface for adult_YR02_51



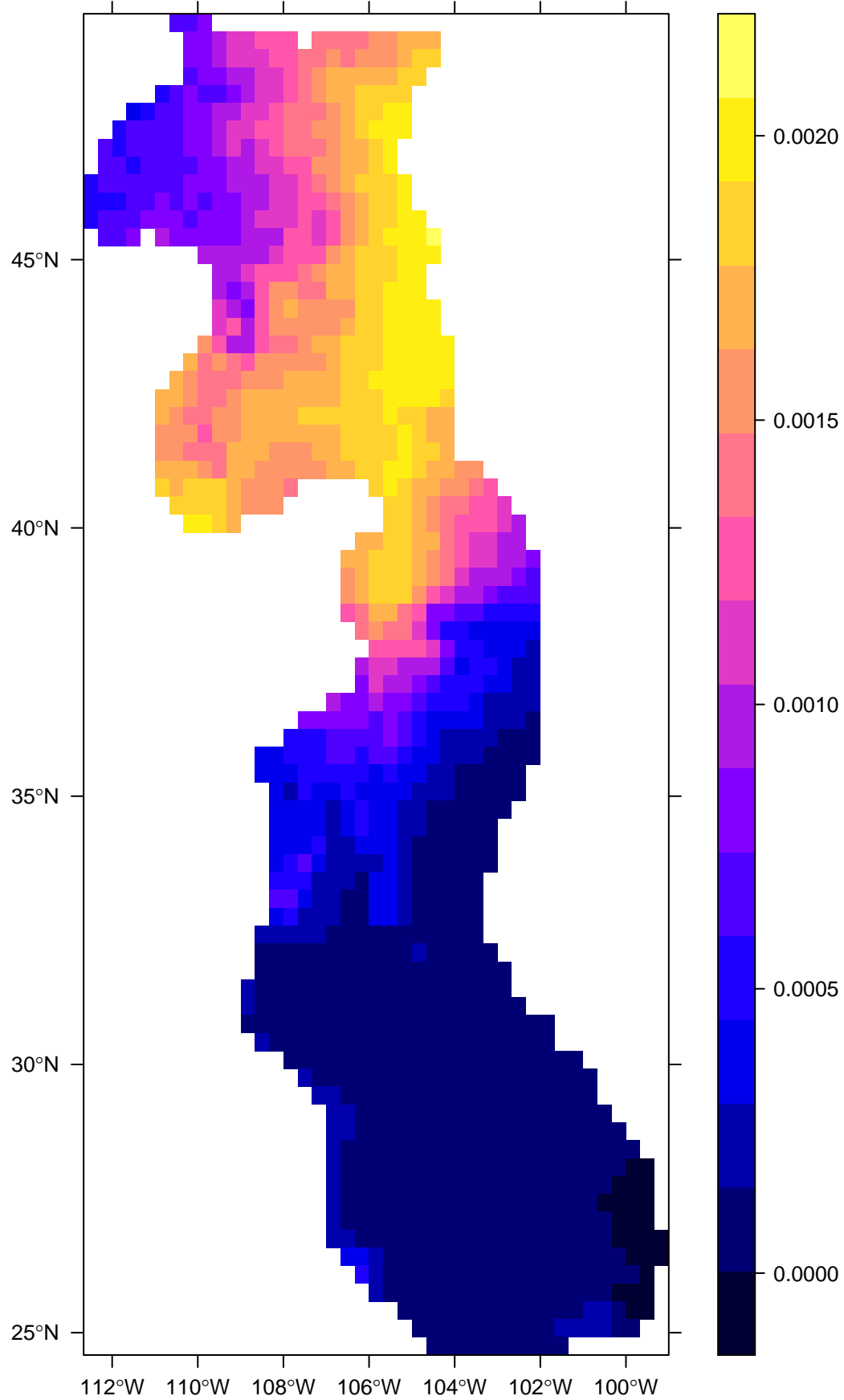
Probability Density Surface for adult_YR02_52



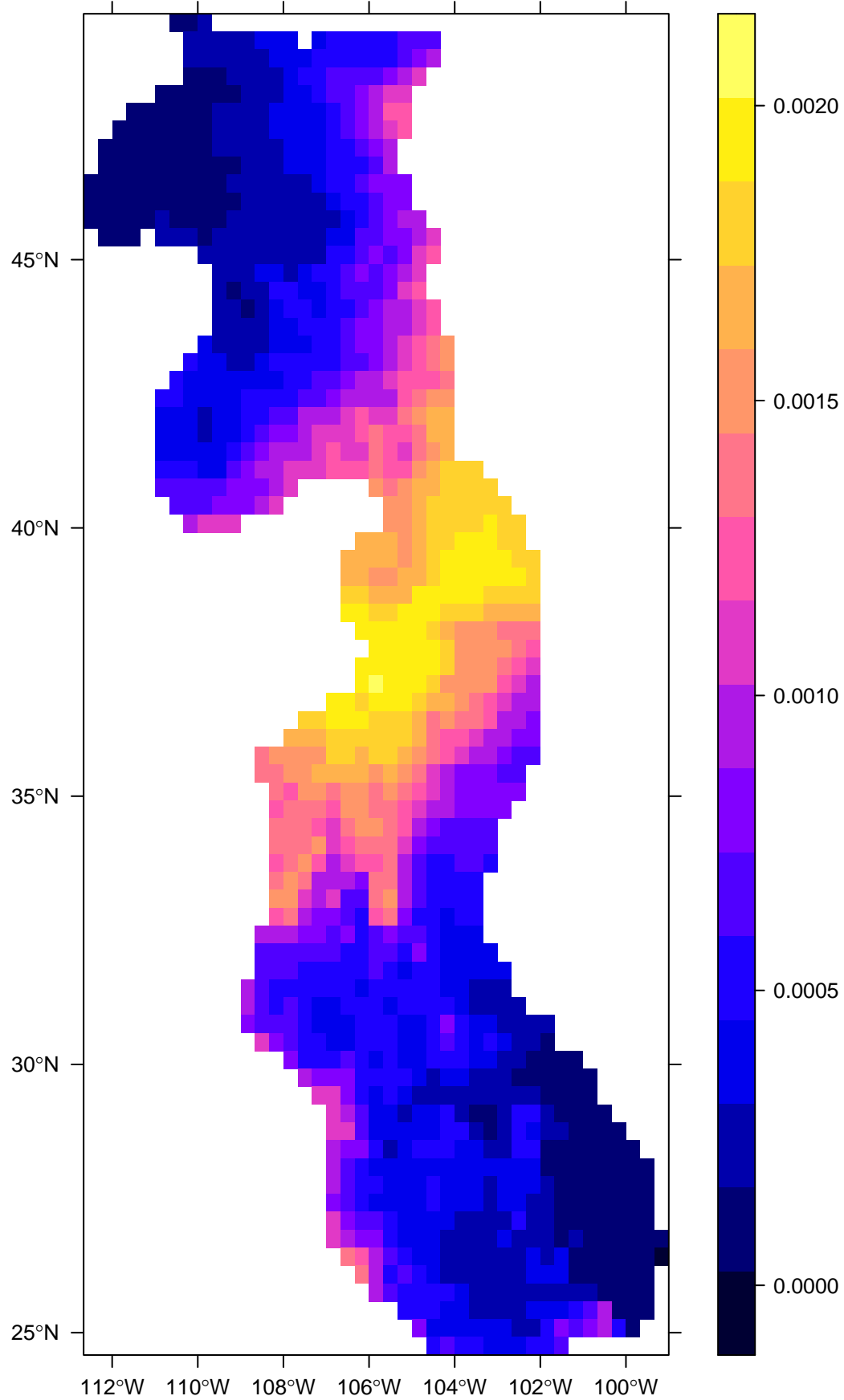
Probability Density Surface for adult_YR02_53



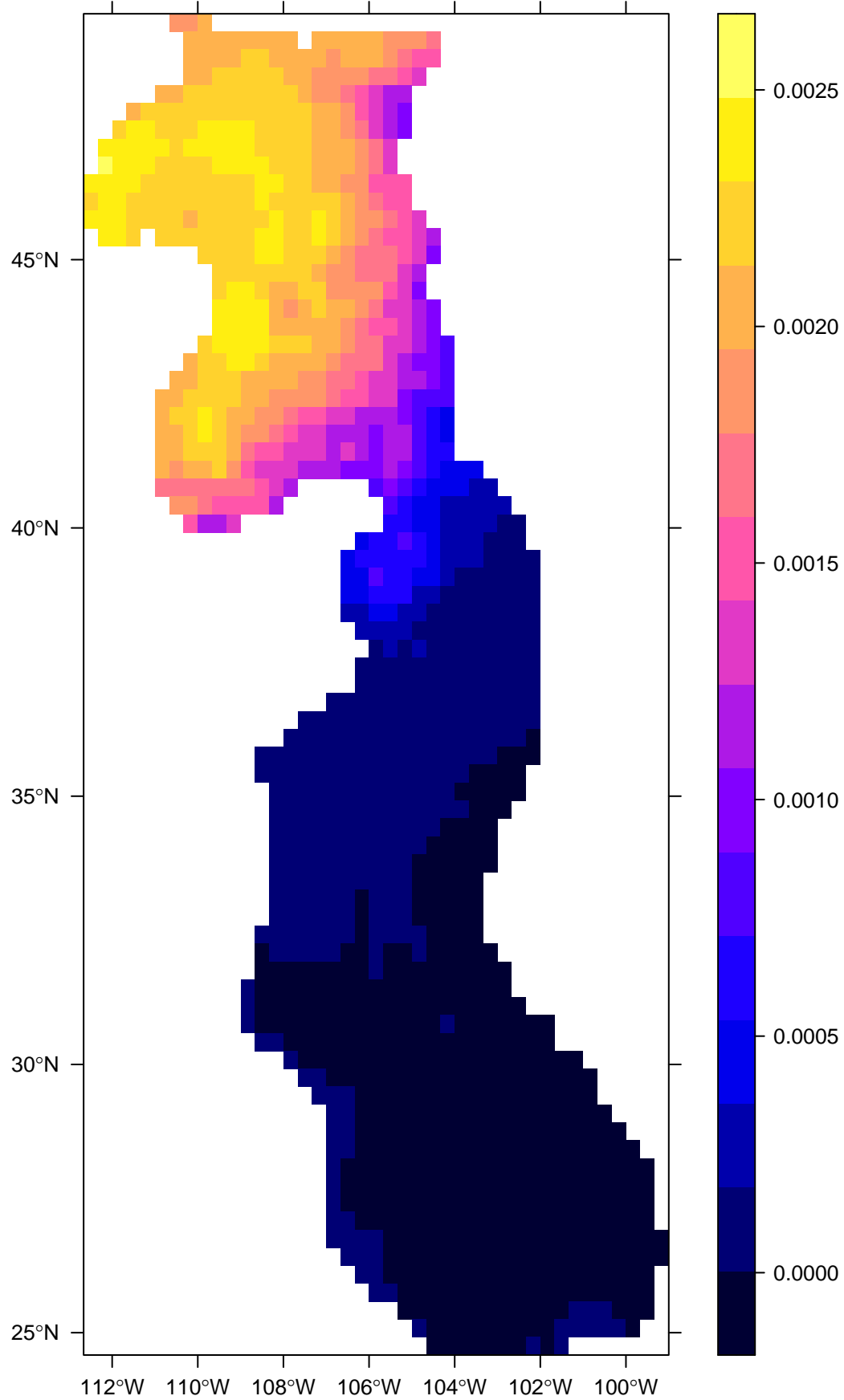
Probability Density Surface for adult_YR02_54



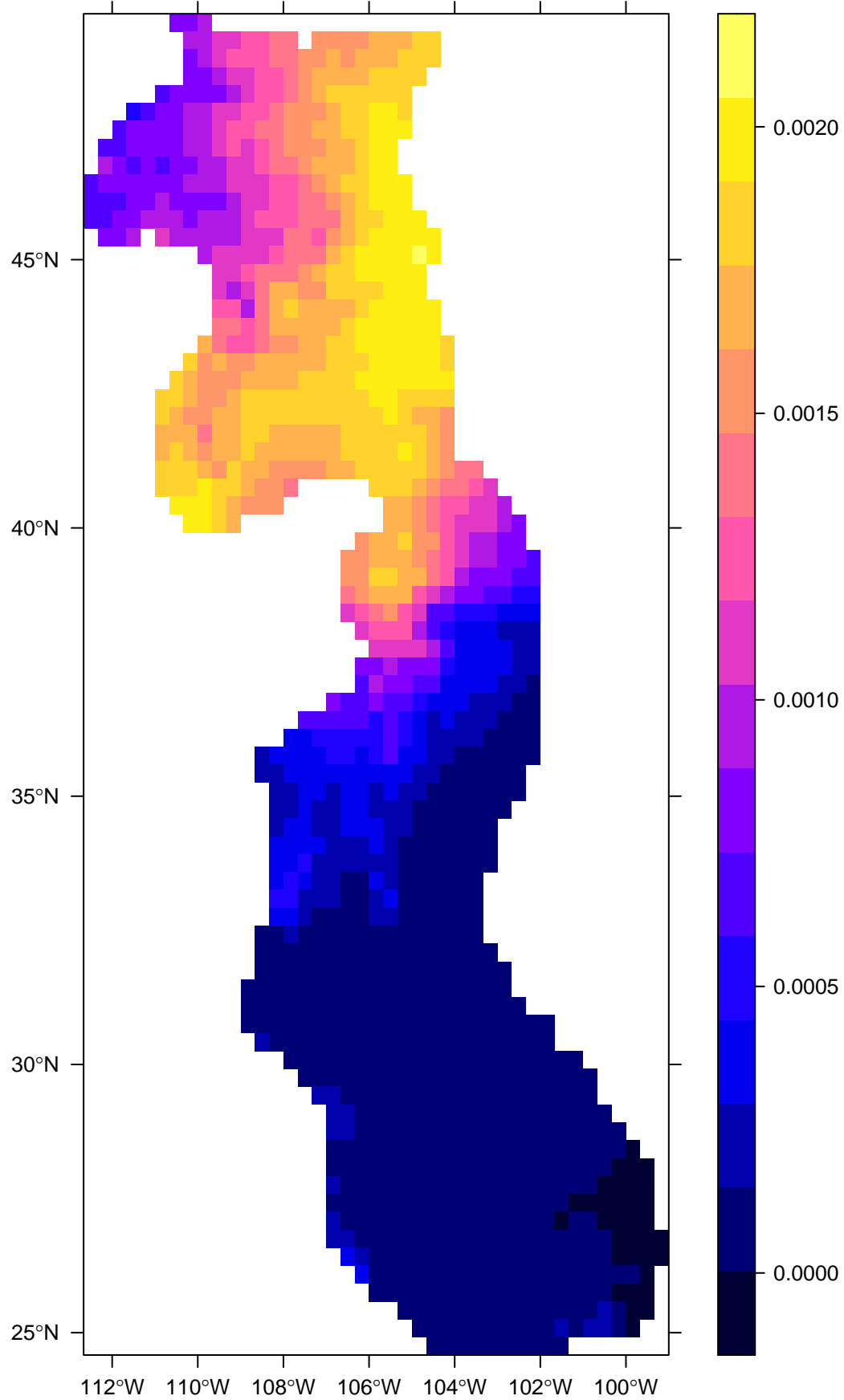
Probability Density Surface for adult_YR02_55



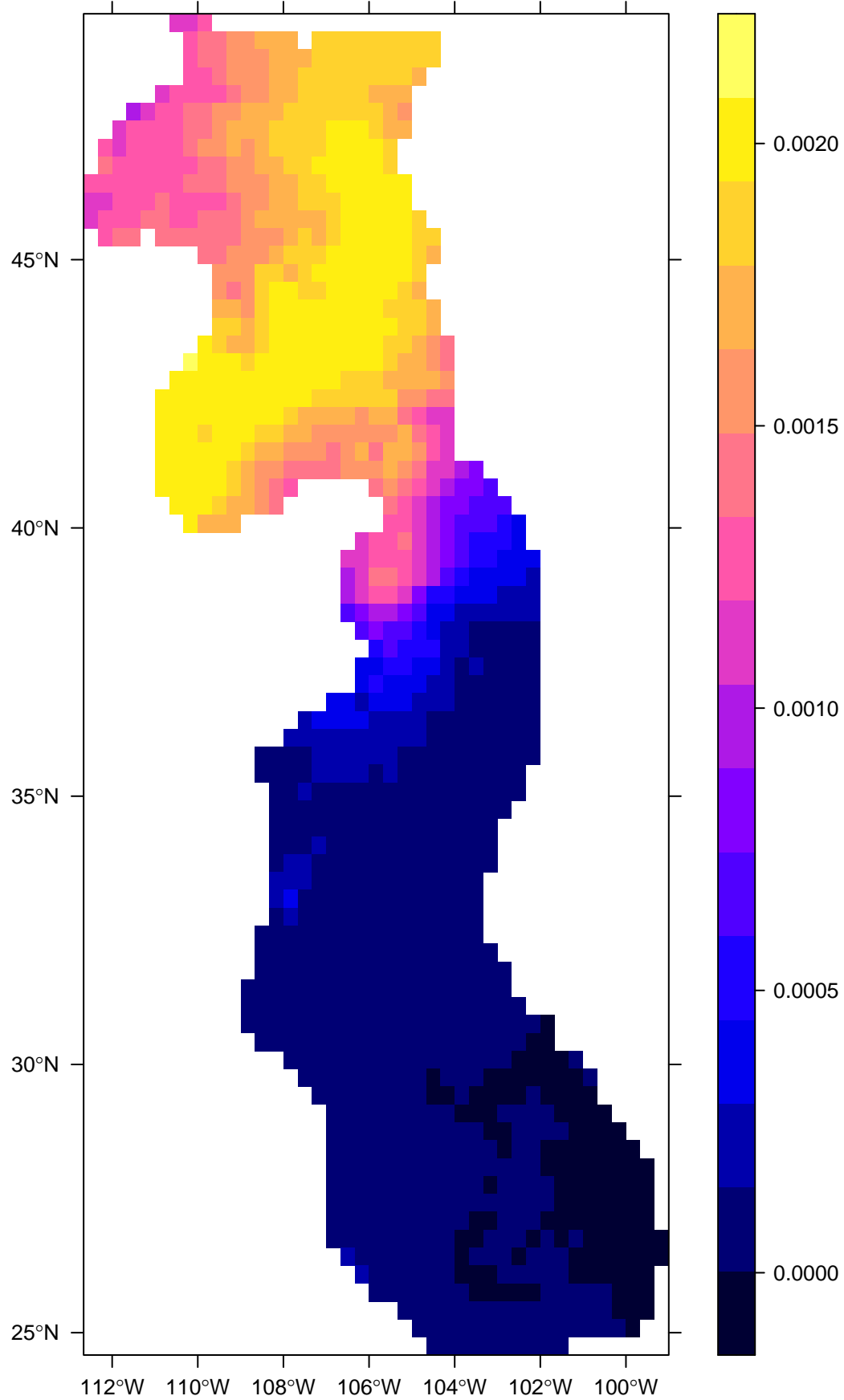
Probability Density Surface for adult_YR02_56



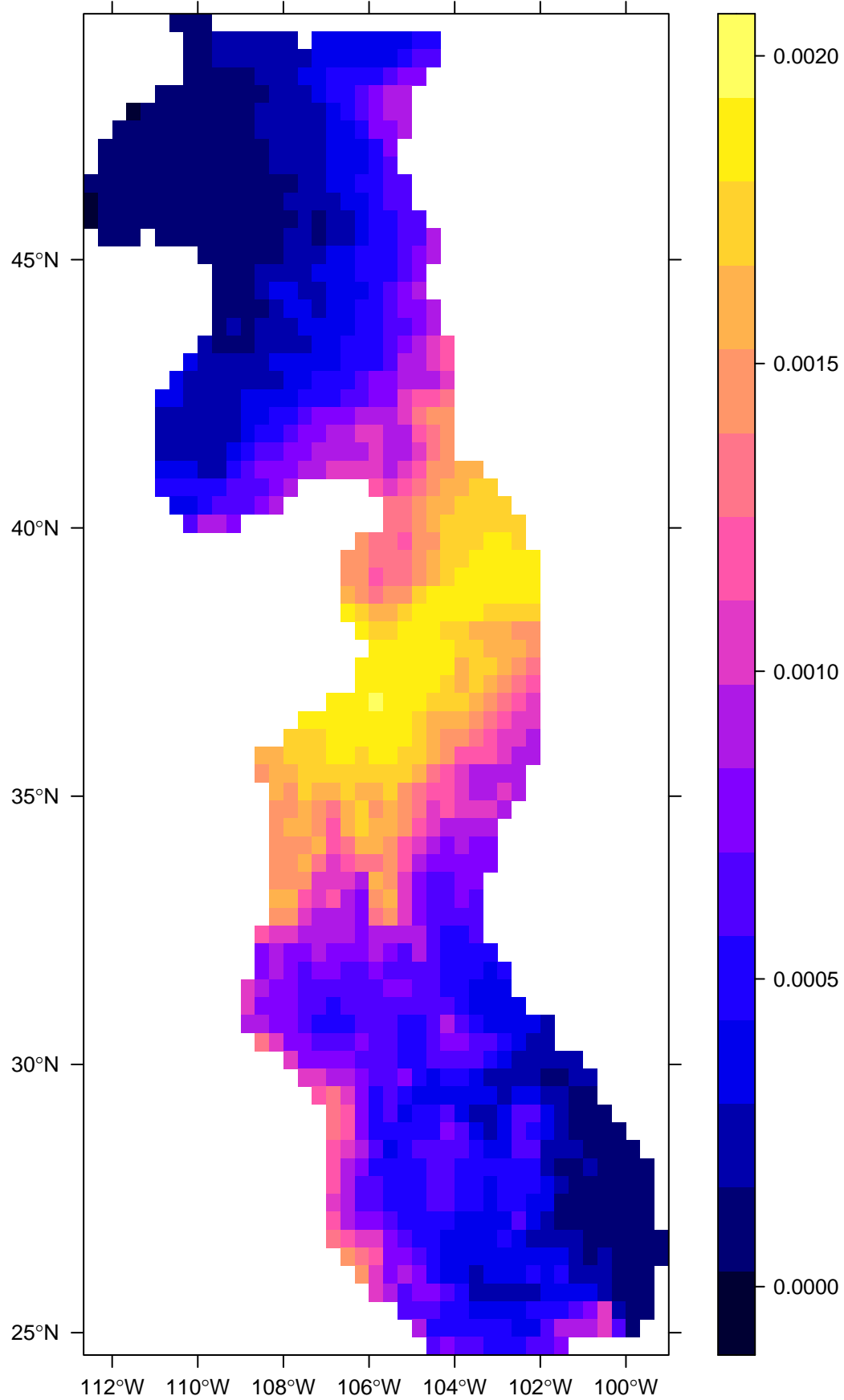
Probability Density Surface for adult_YR02_57



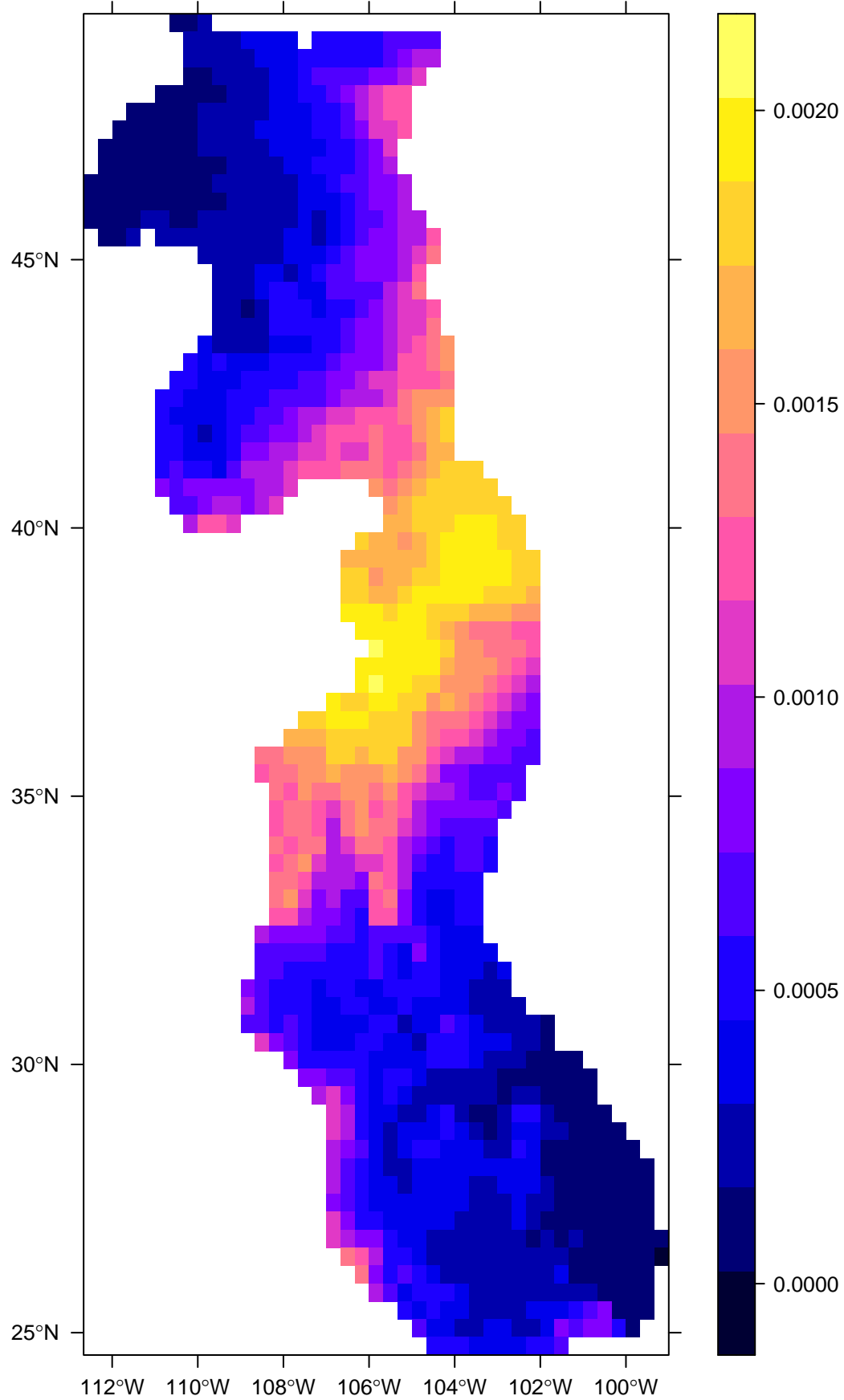
Probability Density Surface for adult_YR02_58



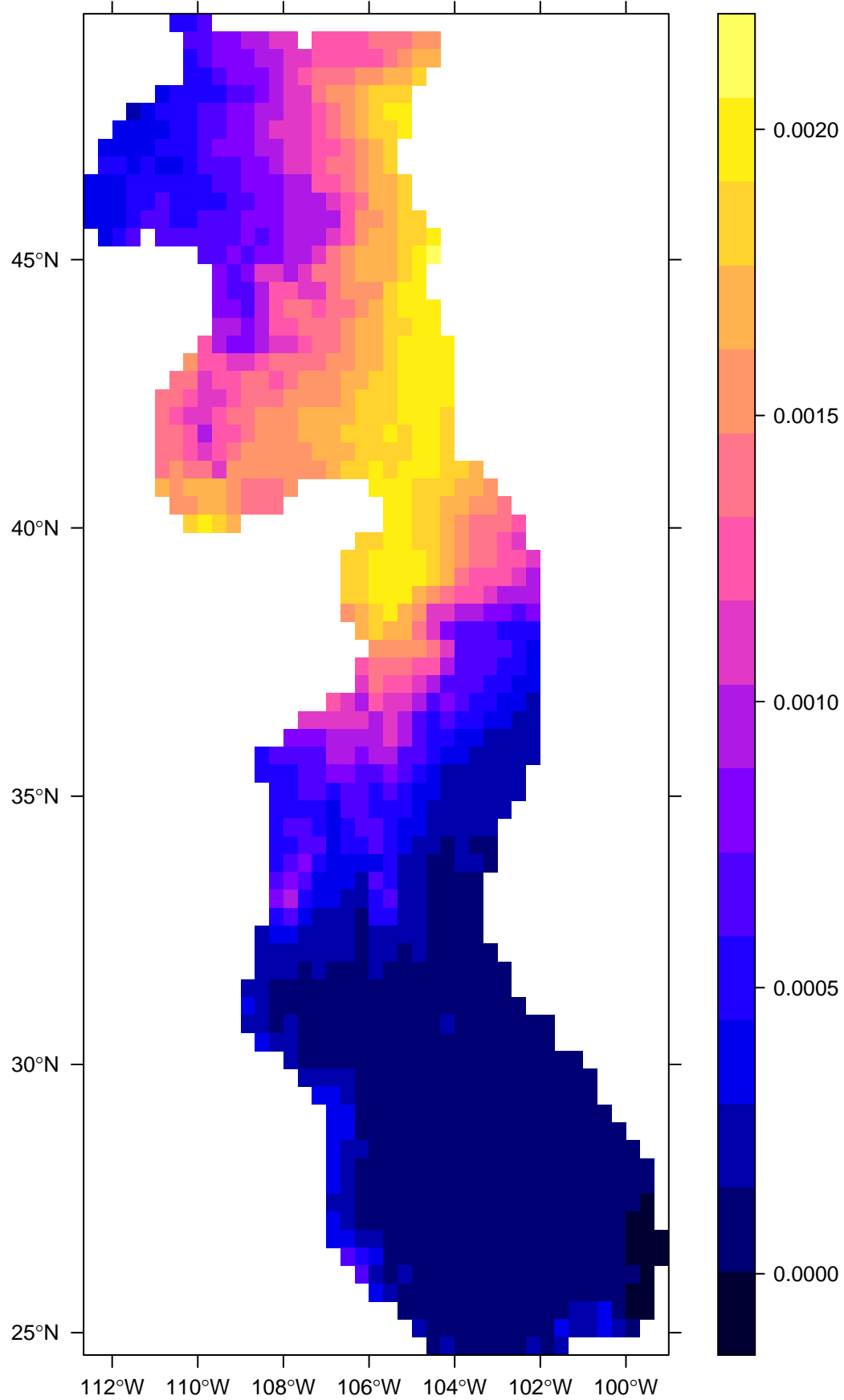
Probability Density Surface for adult_YR02_59



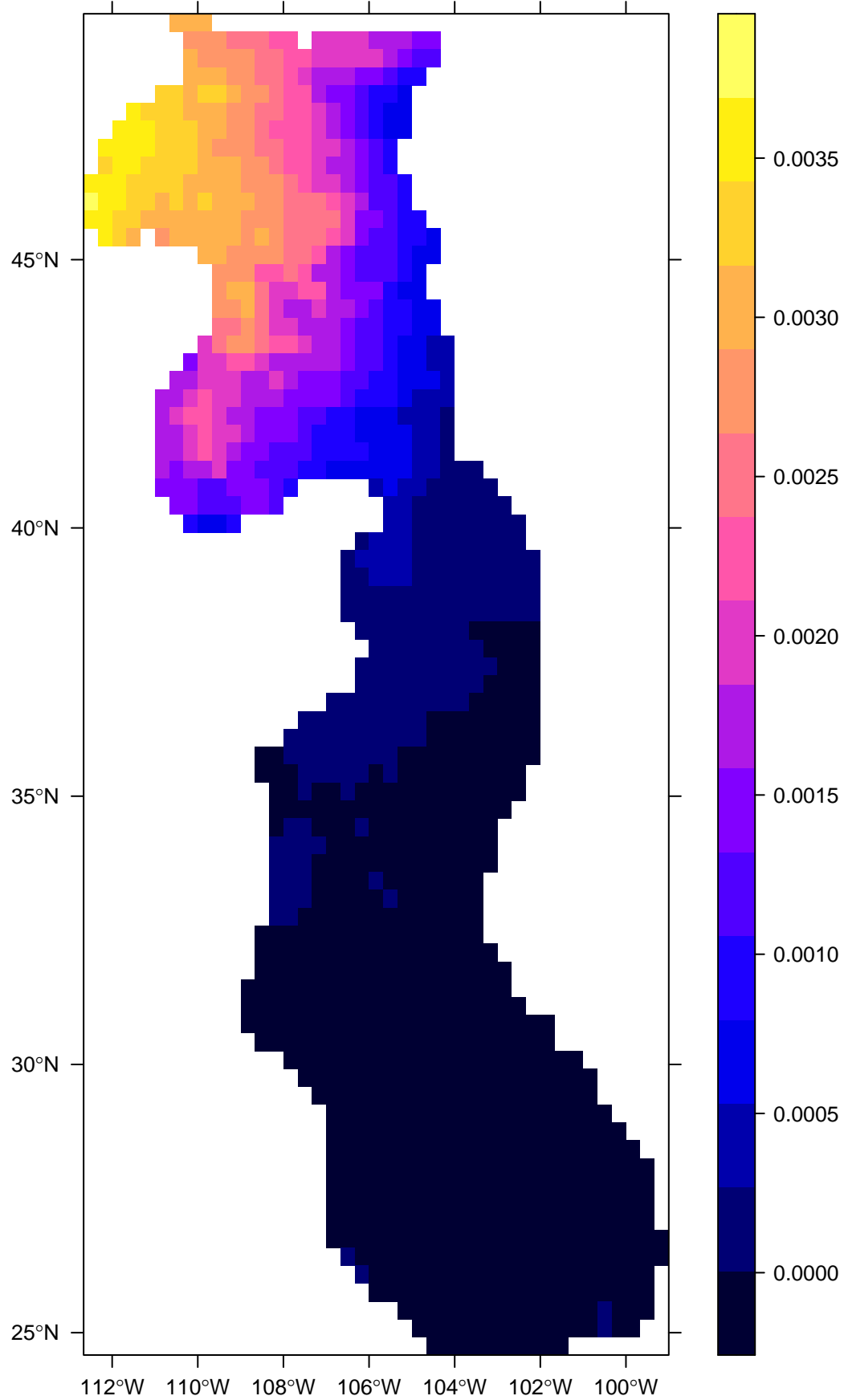
Probability Density Surface for adult_YR02_60



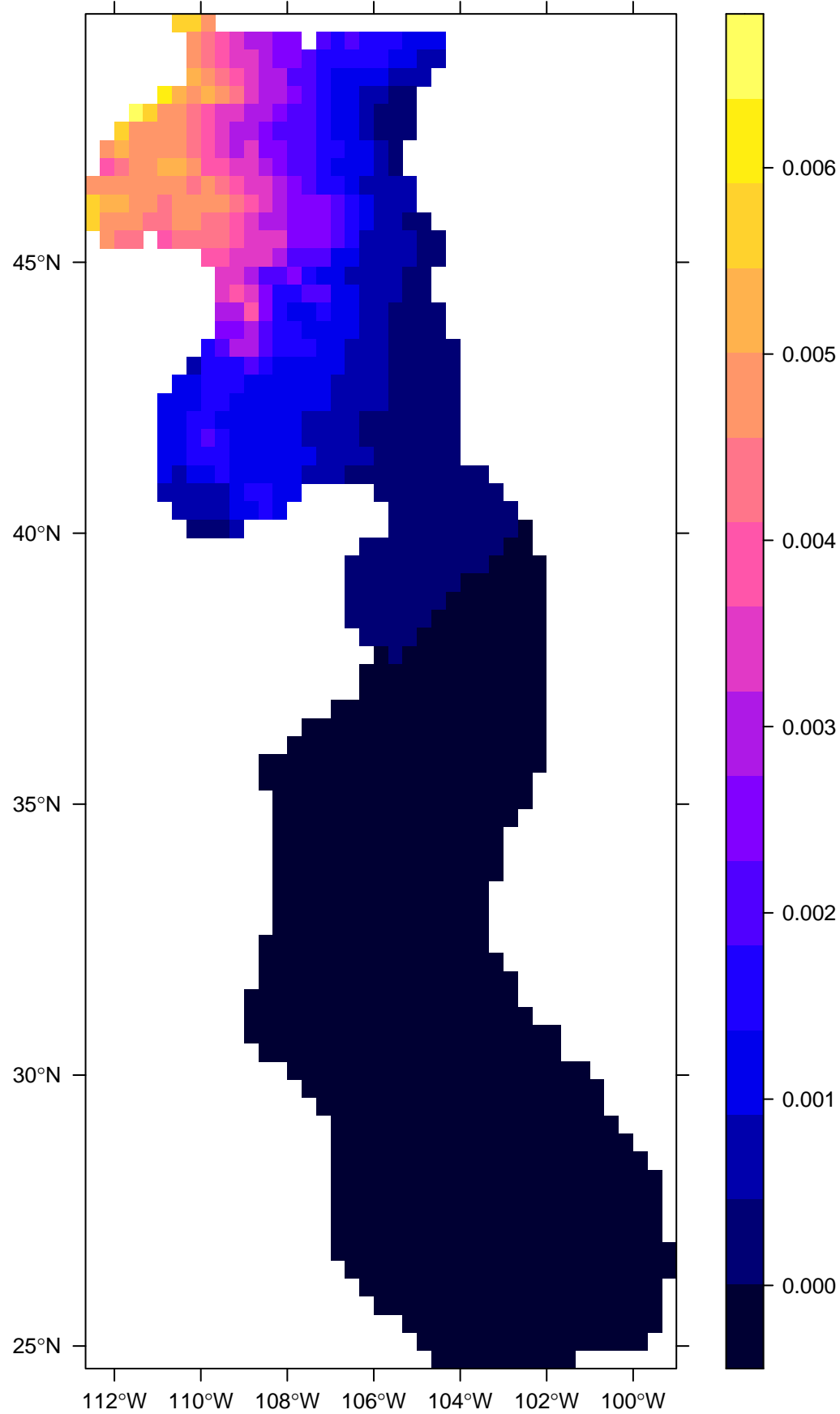
Probability Density Surface for adult_YR02_61



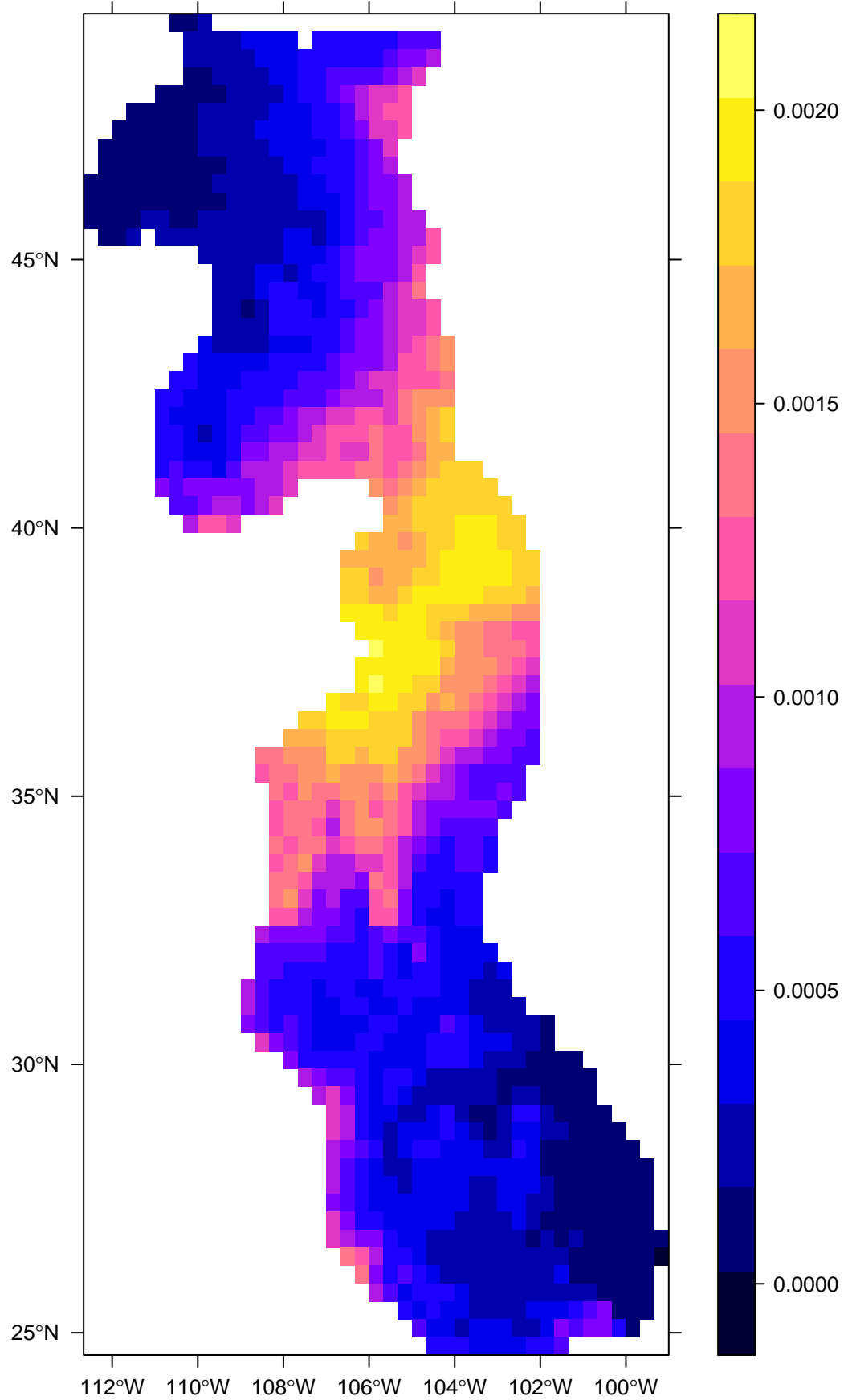
Probability Density Surface for adult_YR02_62



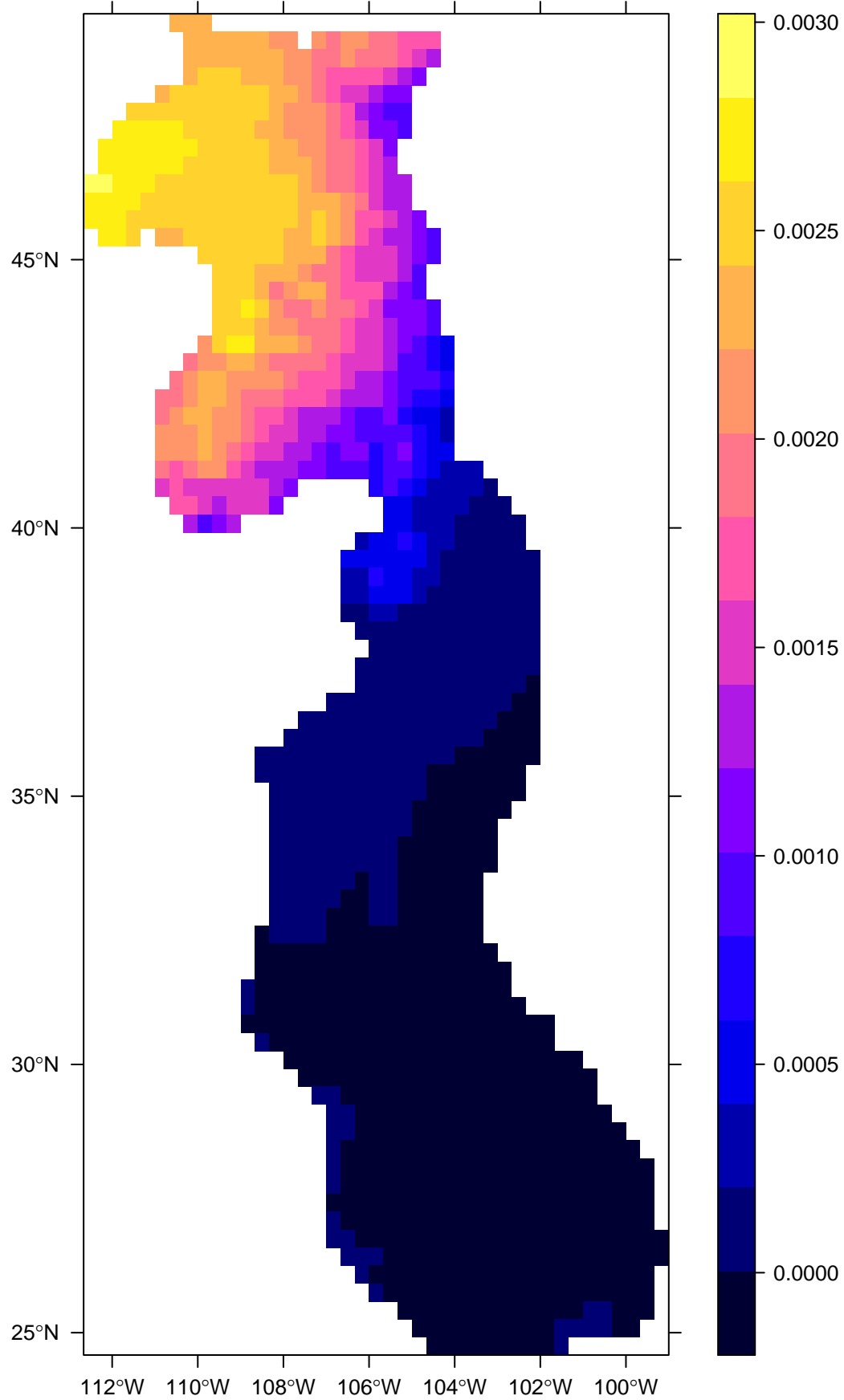
Probability Density Surface for adult_YR02_63



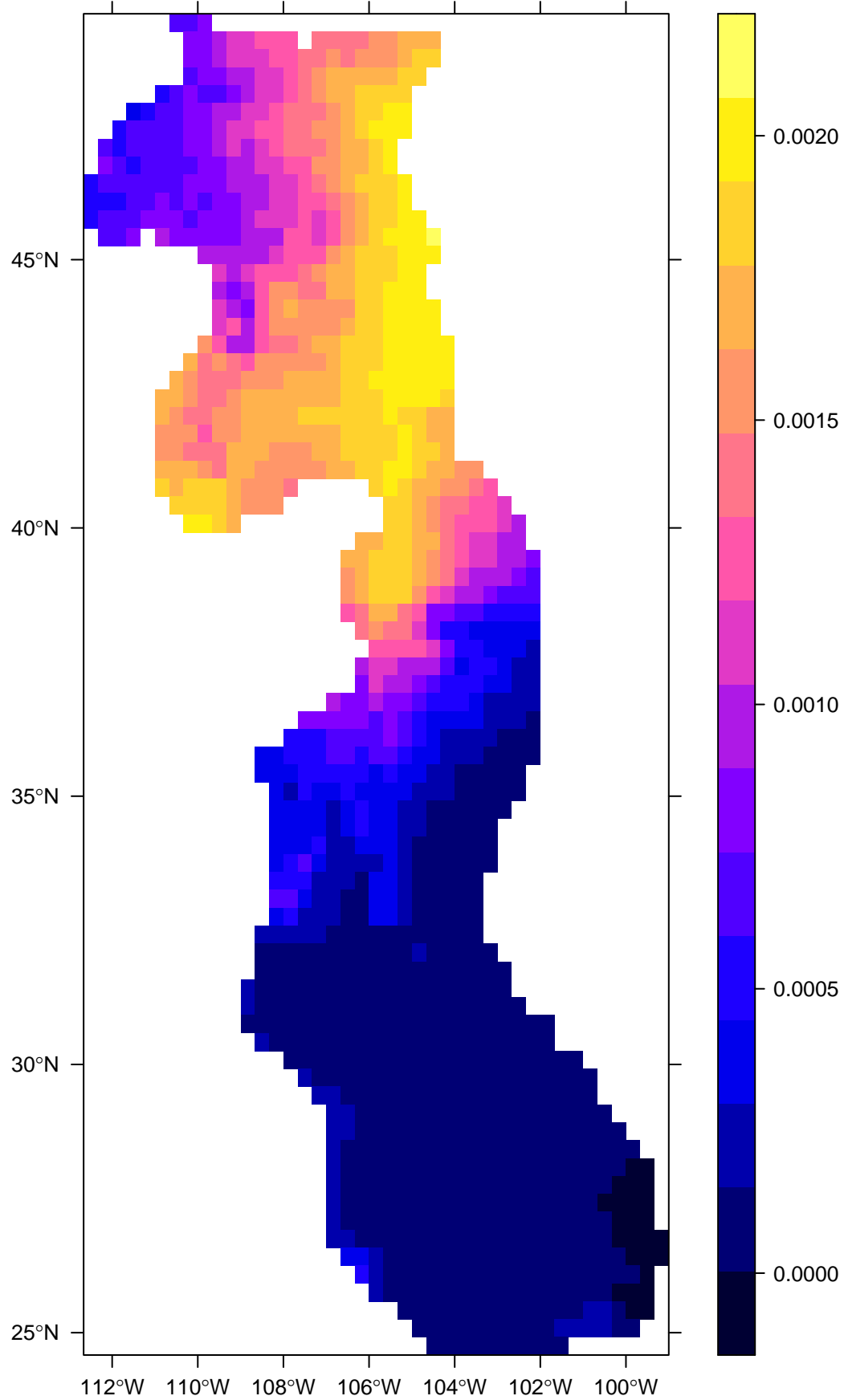
Probability Density Surface for adult_YR02_64



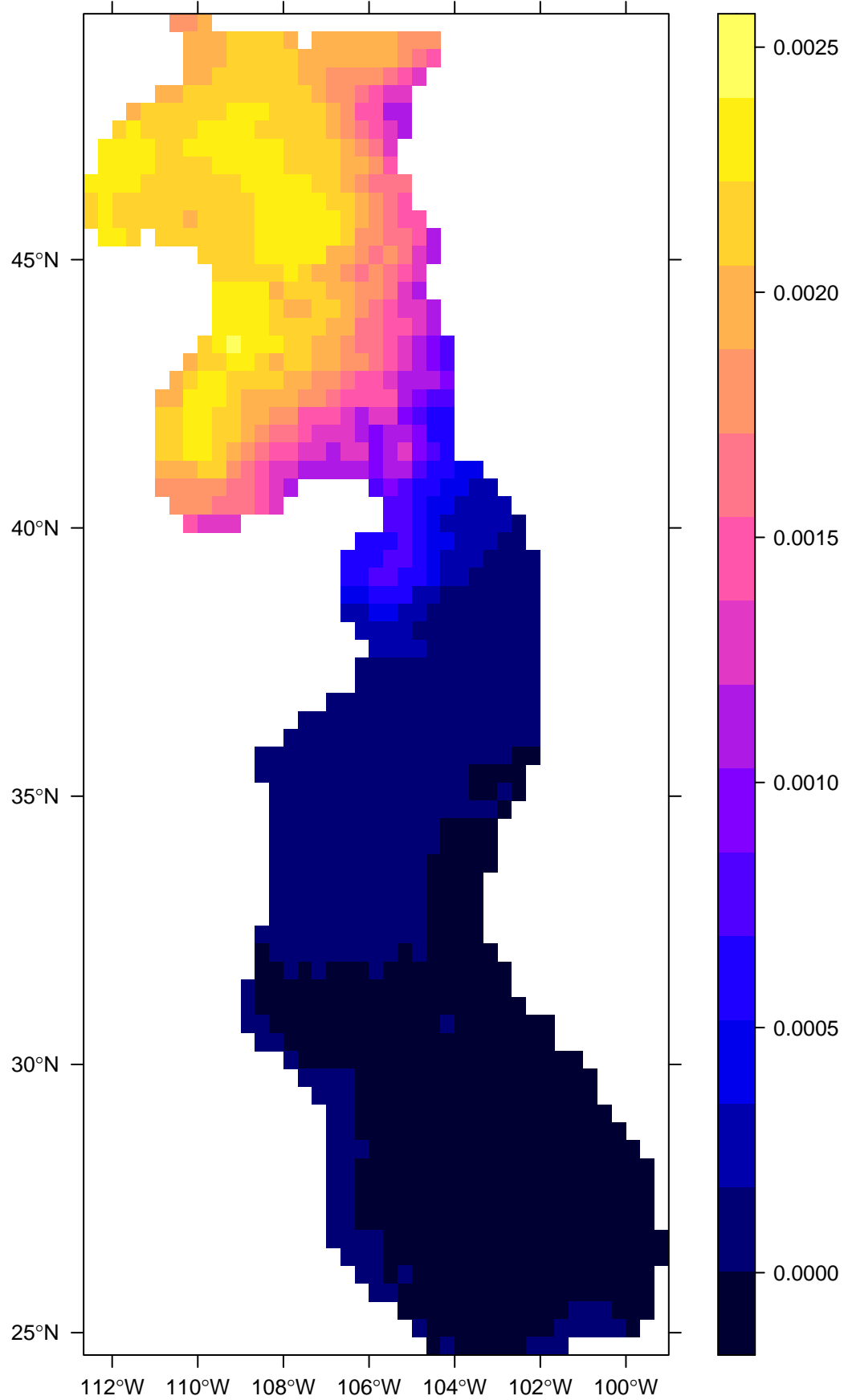
Probability Density Surface for adult_YR02_65



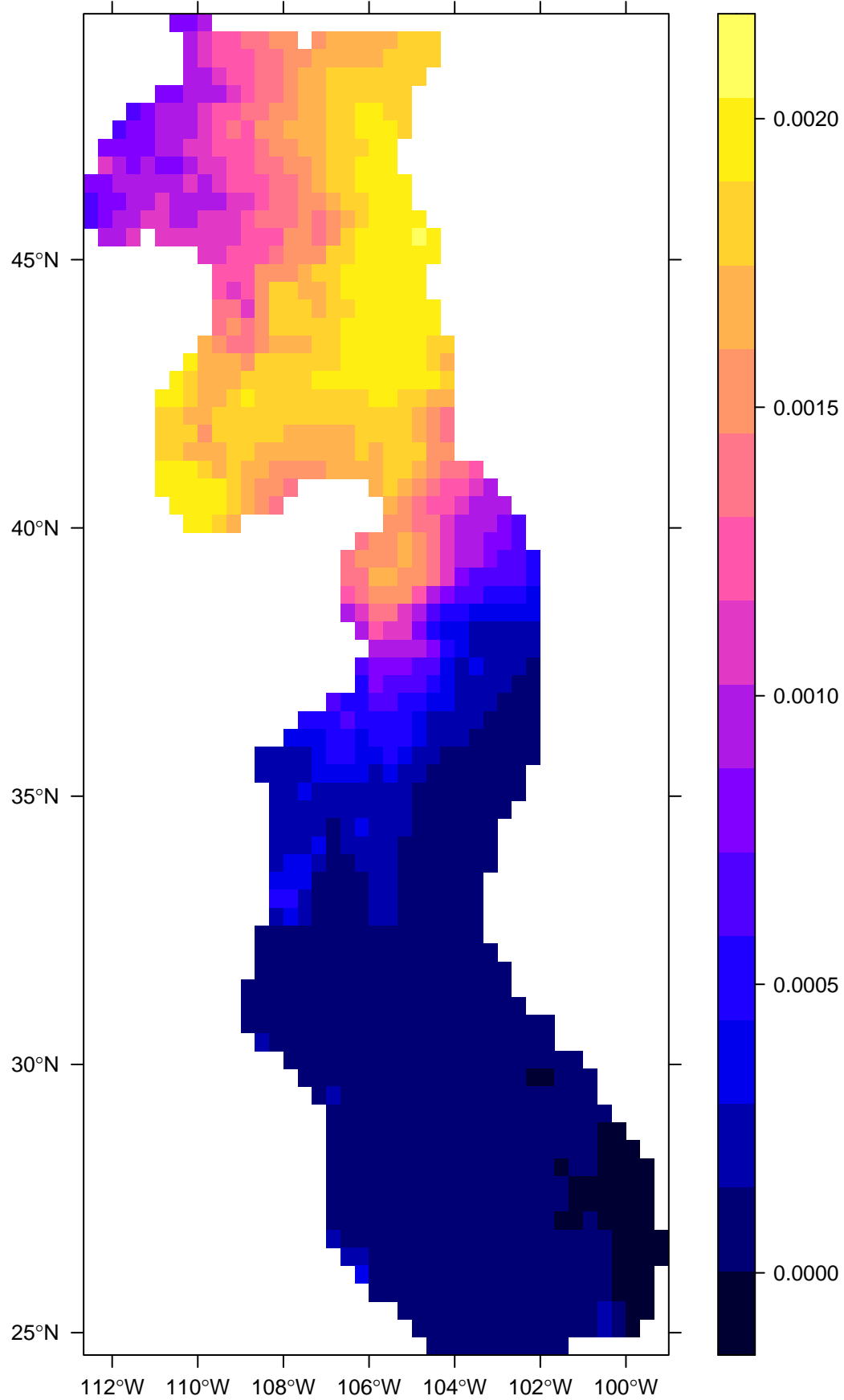
Probability Density Surface for adult_YR02_66



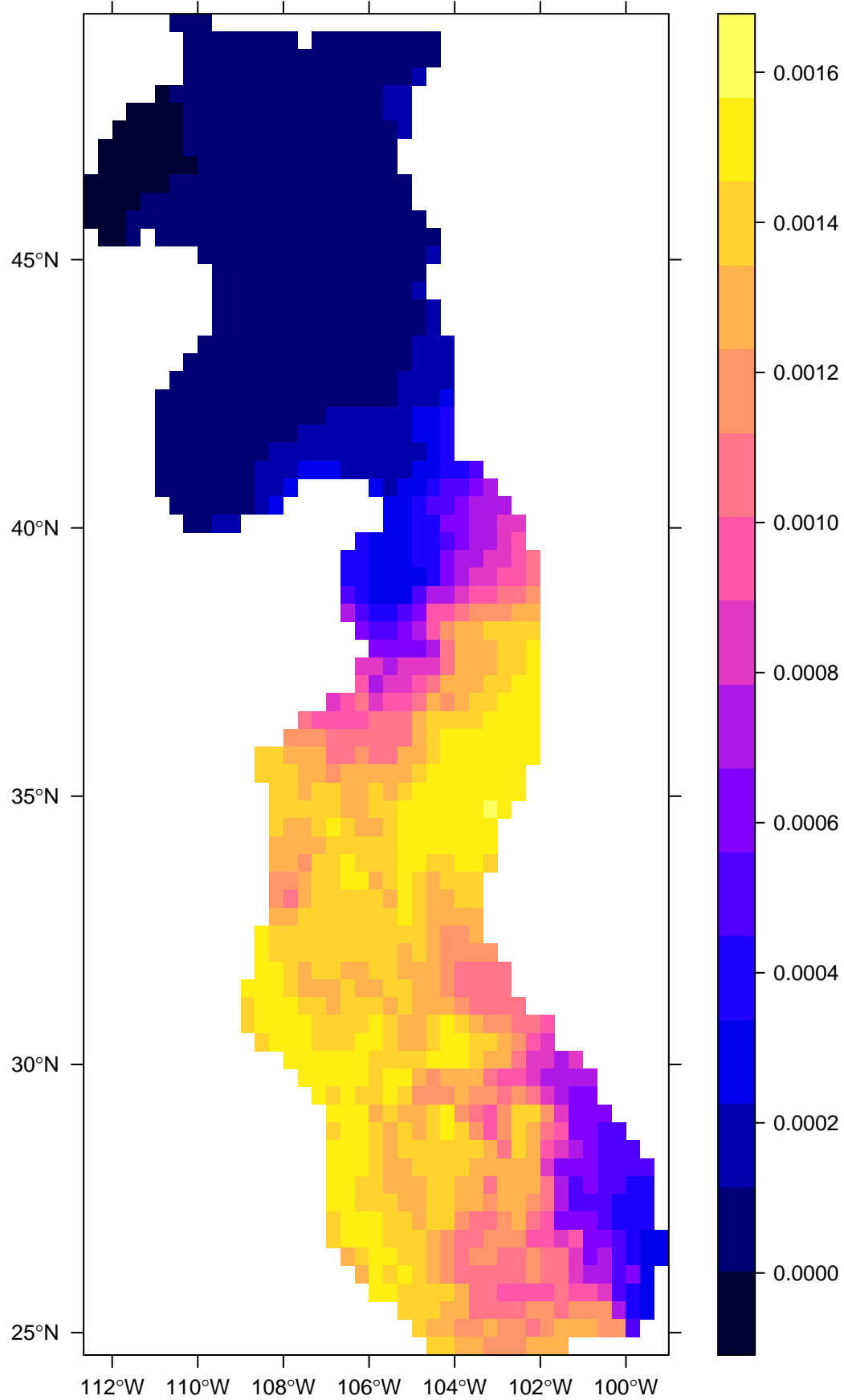
Probability Density Surface for adult_YR02_67



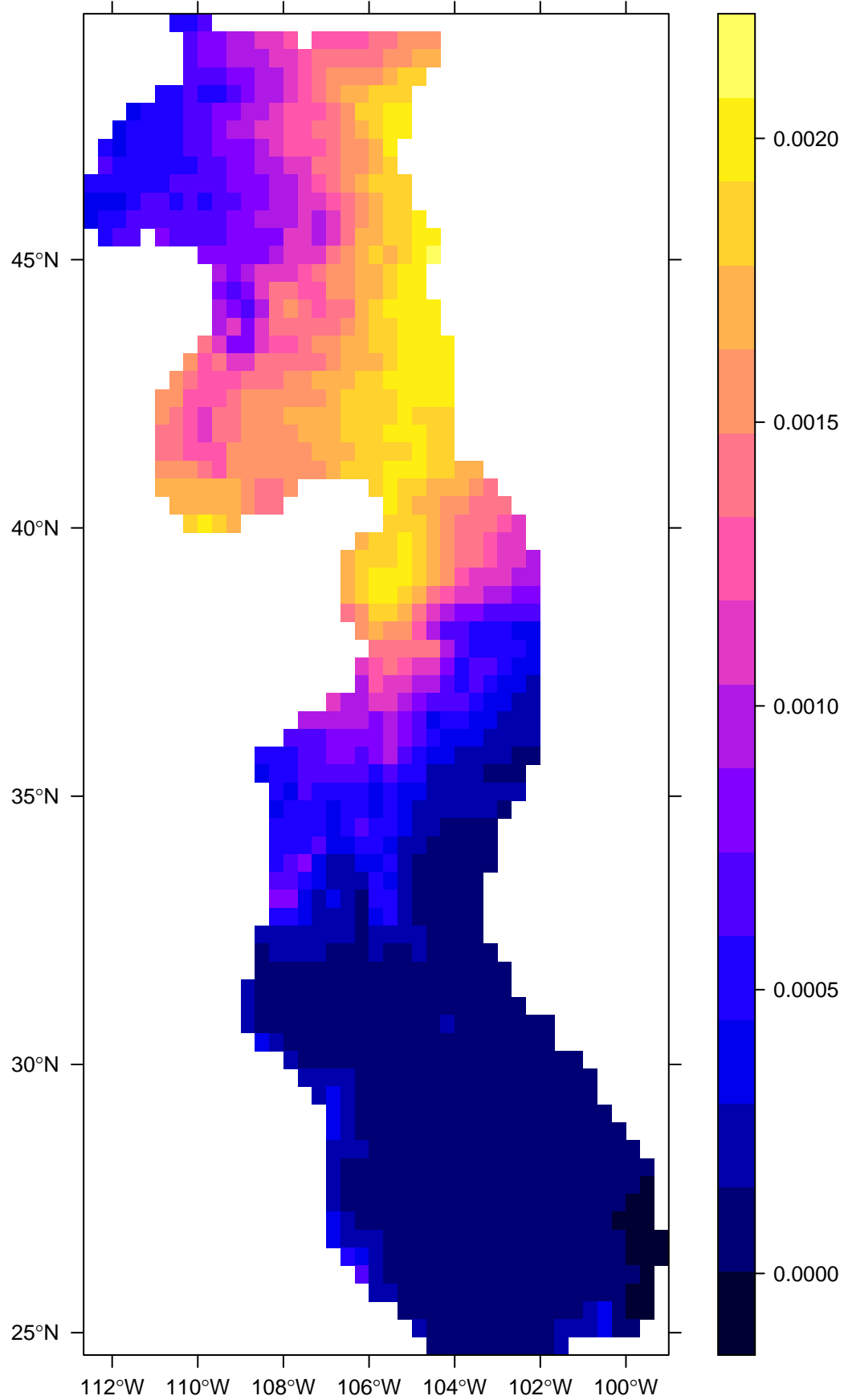
Probability Density Surface for adult_YR02_68



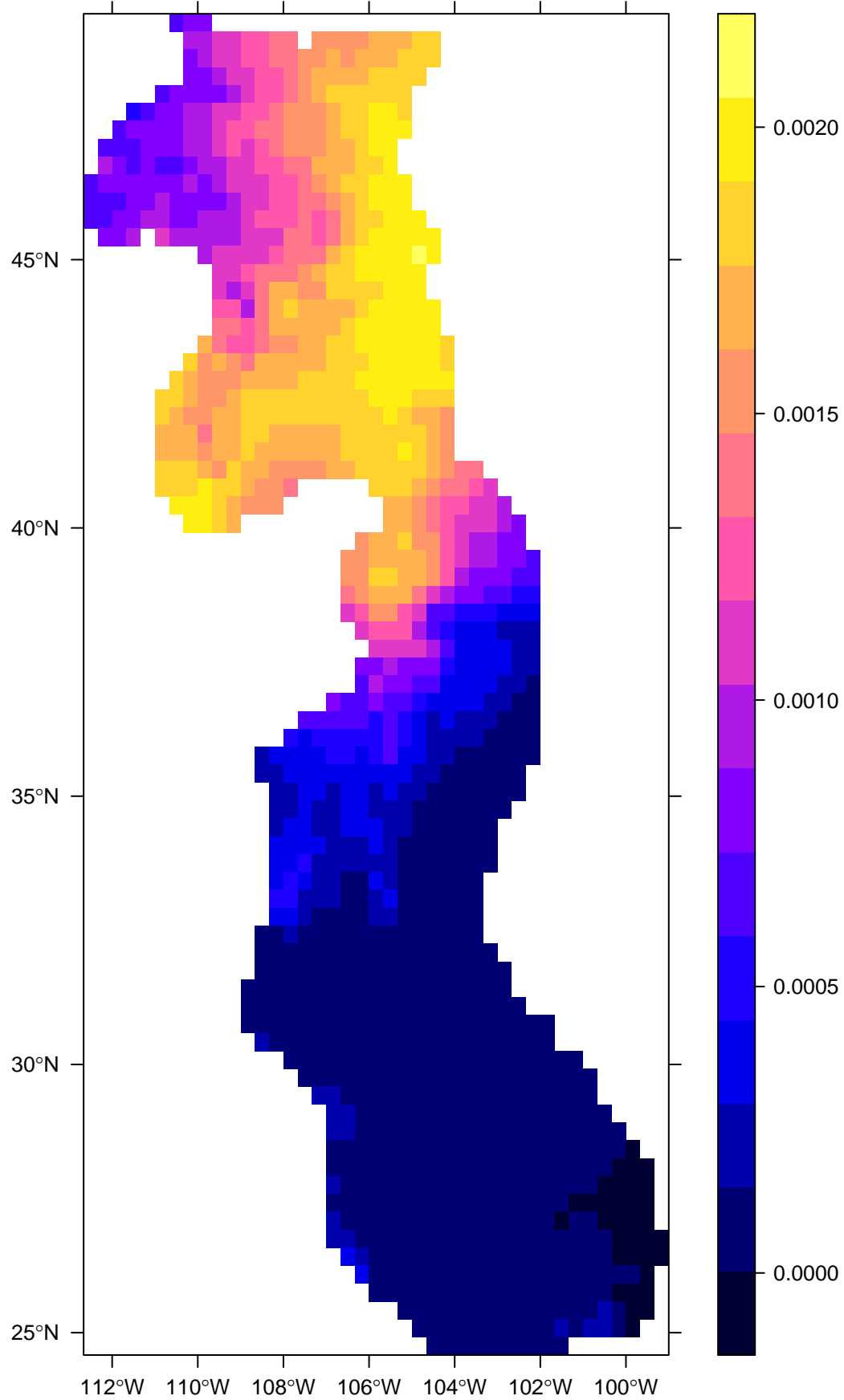
Probability Density Surface for adult_YR02_69



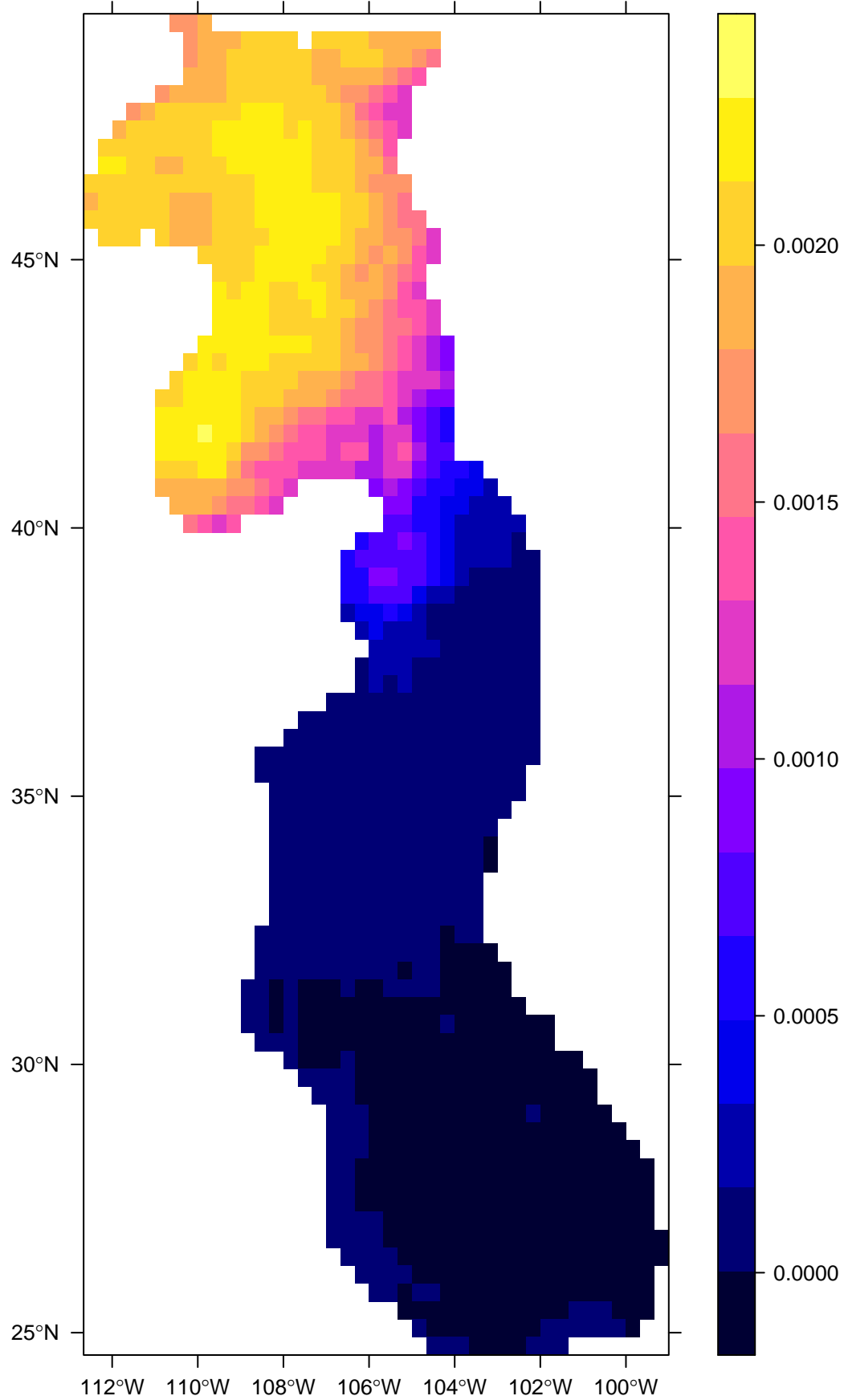
Probability Density Surface for adult_YR02_70



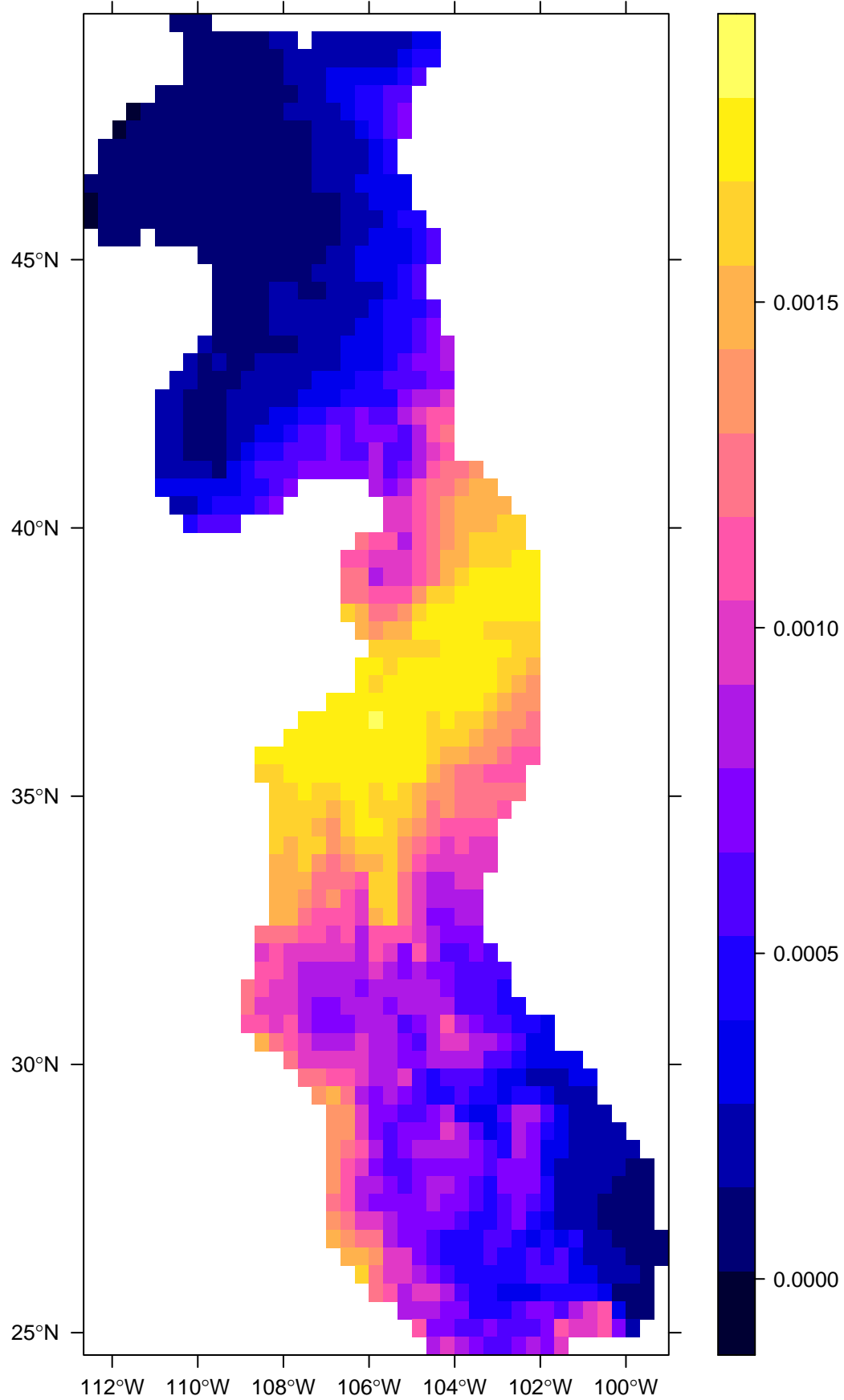
Probability Density Surface for adult_YR02_71



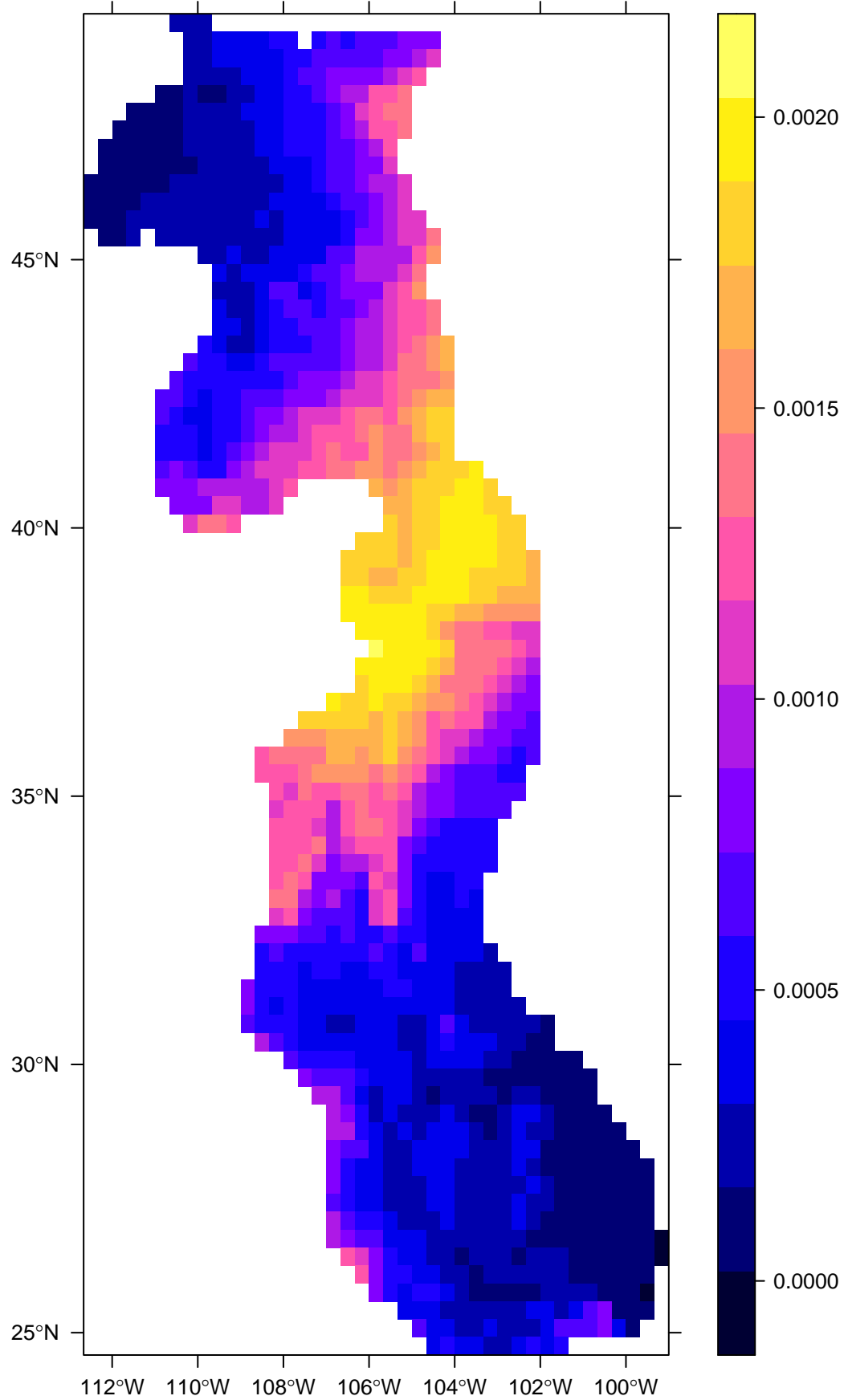
Probability Density Surface for adult_YR02_72



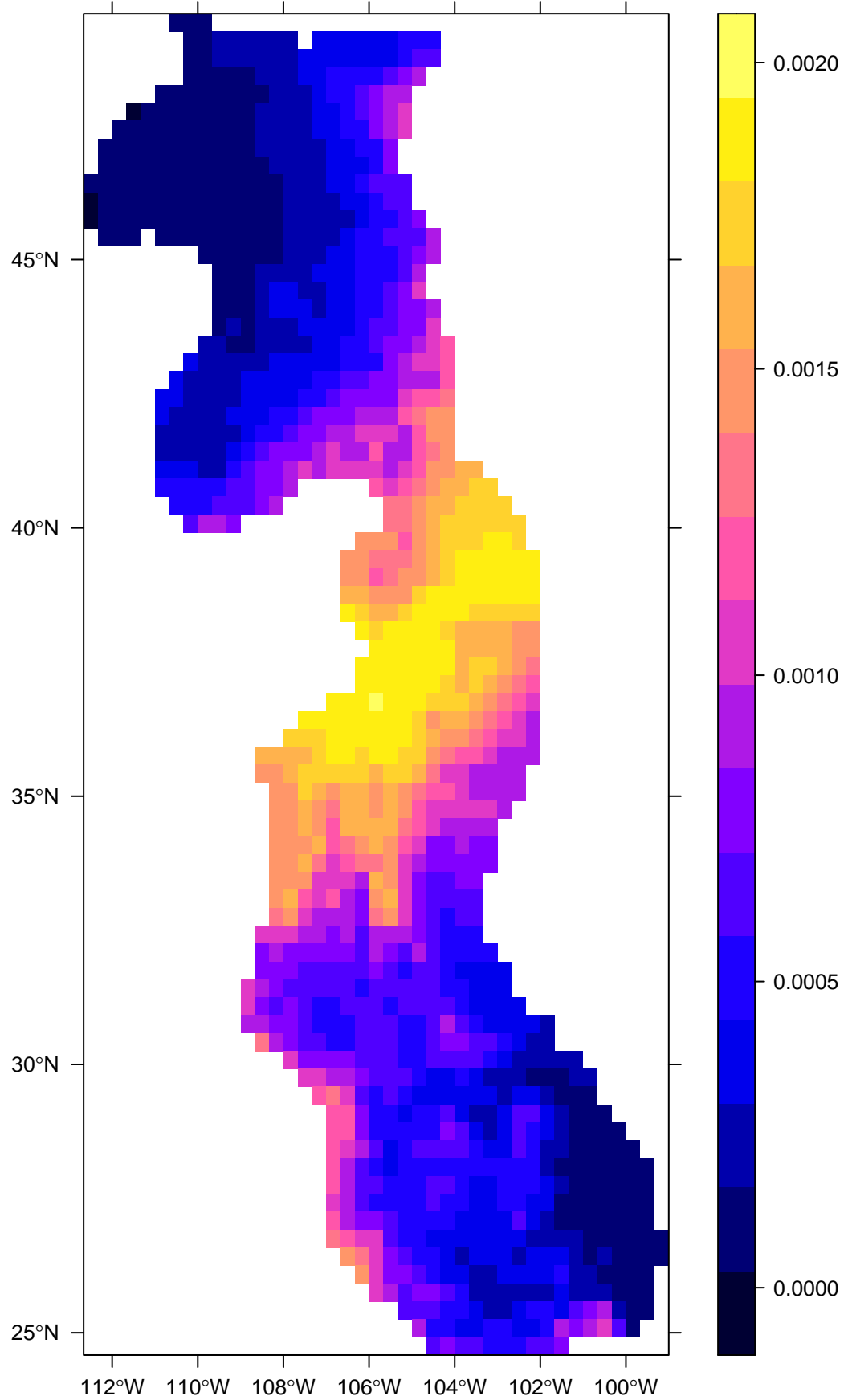
Probability Density Surface for adult_YR02_73



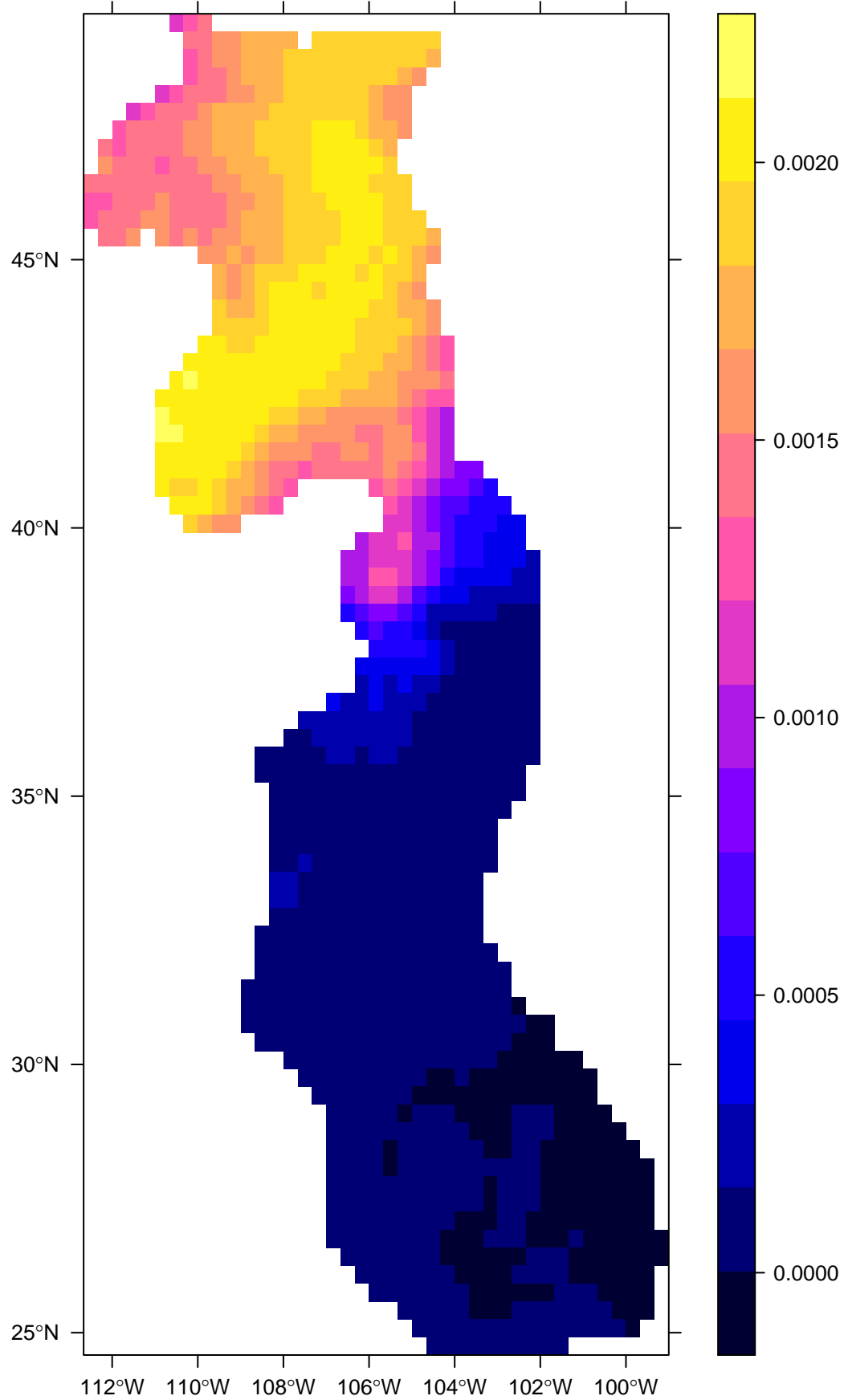
Probability Density Surface for adult_YR02_74



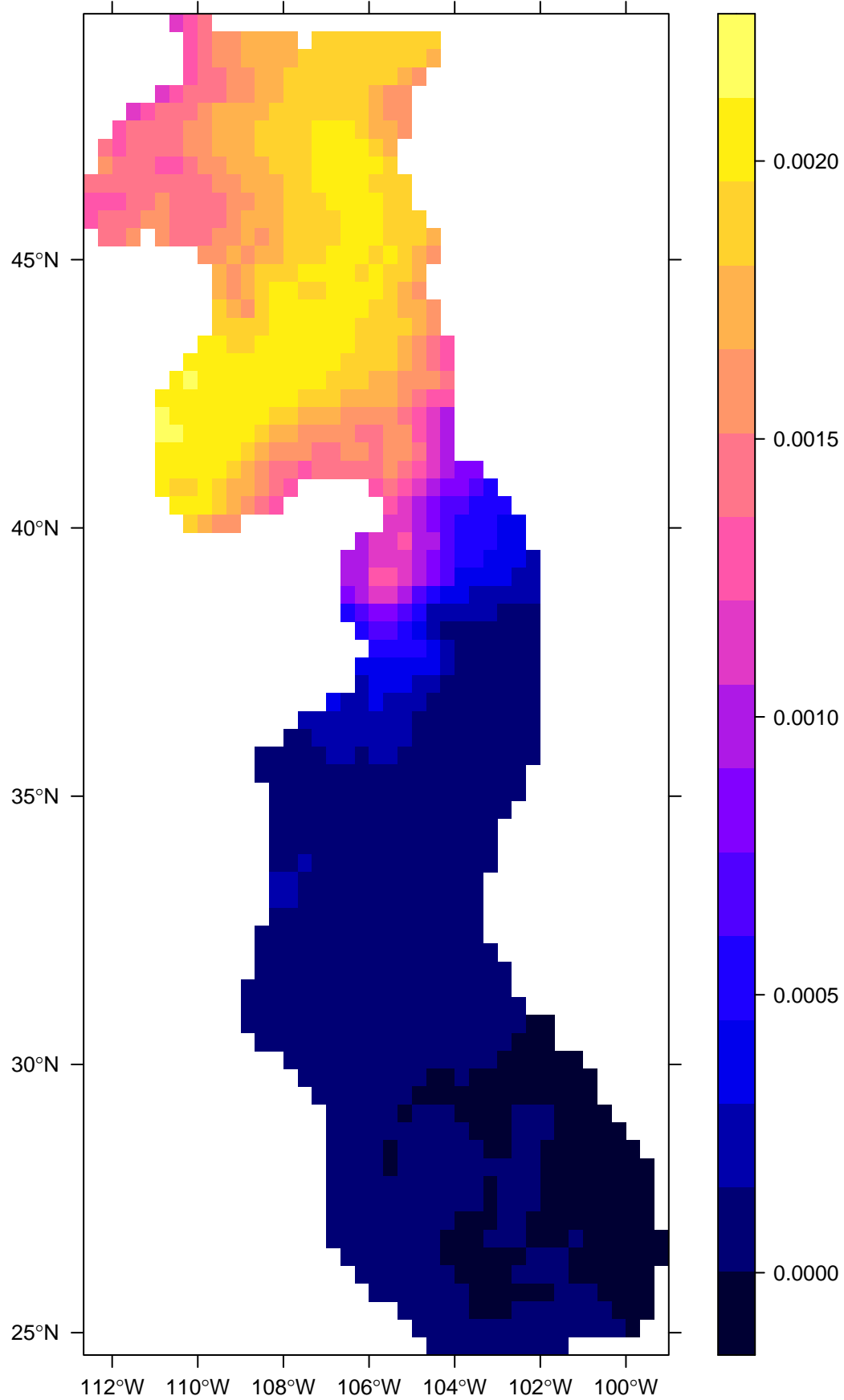
Probability Density Surface for adult_YR02_75



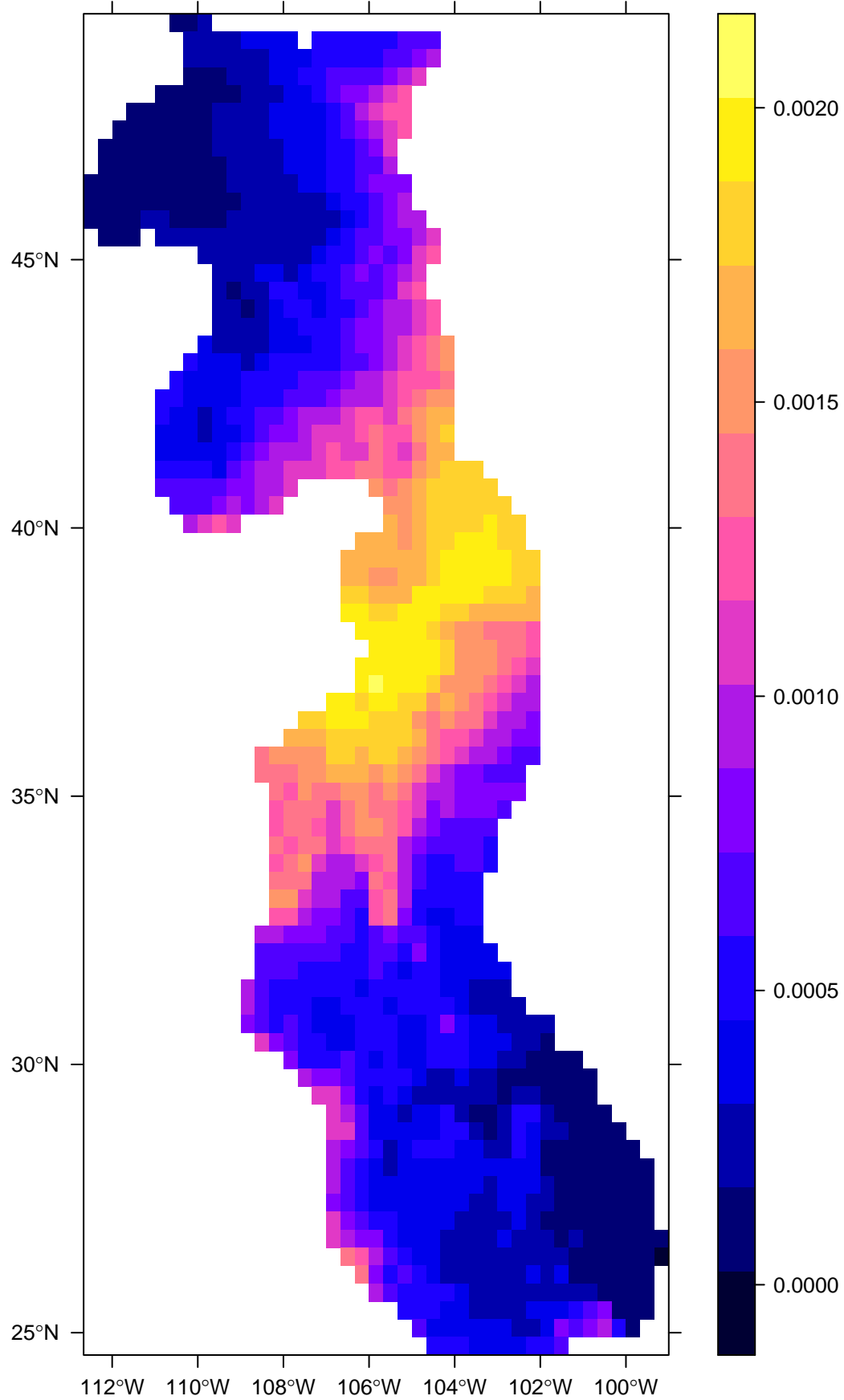
Probability Density Surface for adult_YR03_01



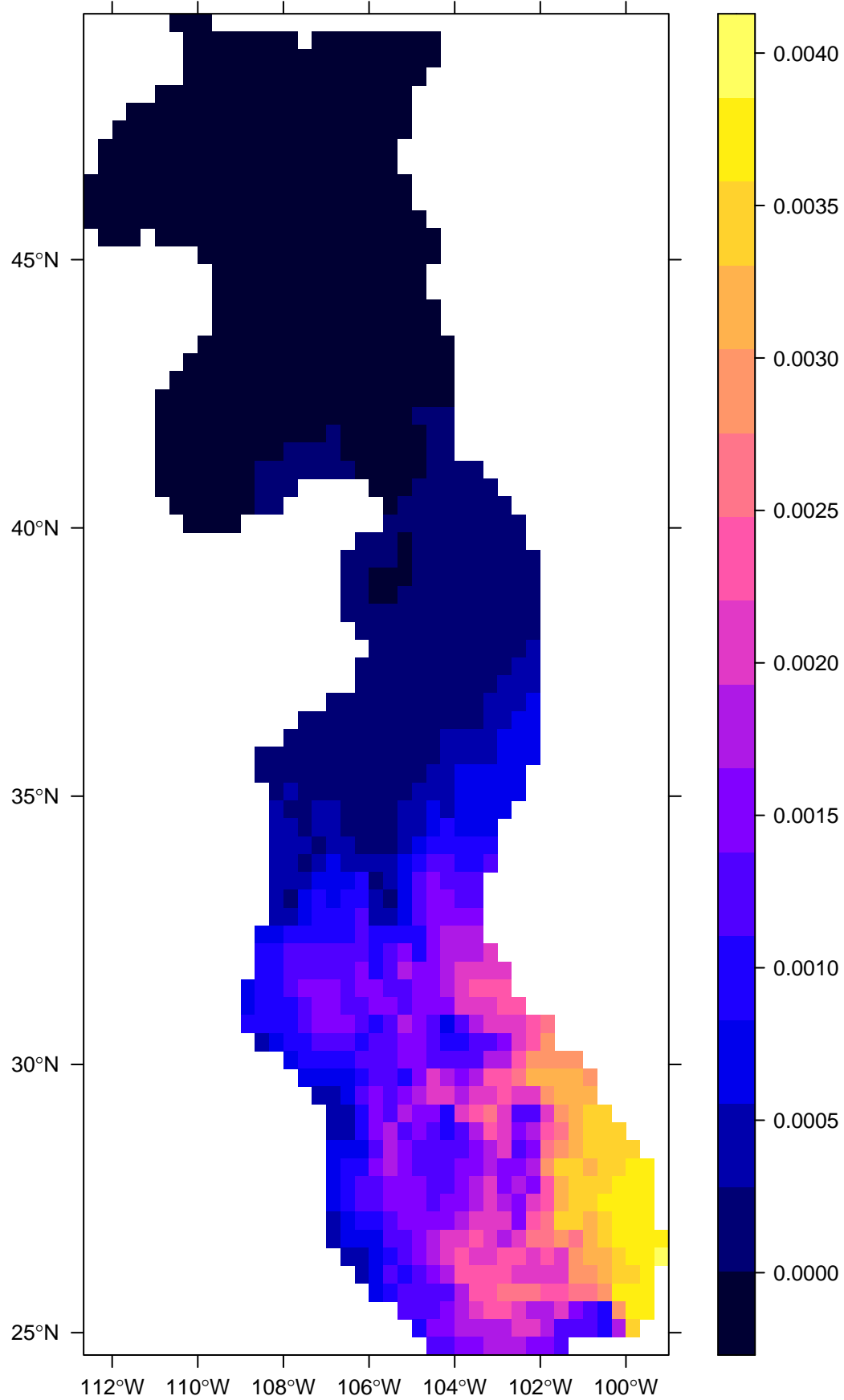
Probability Density Surface for adult_YR03_02



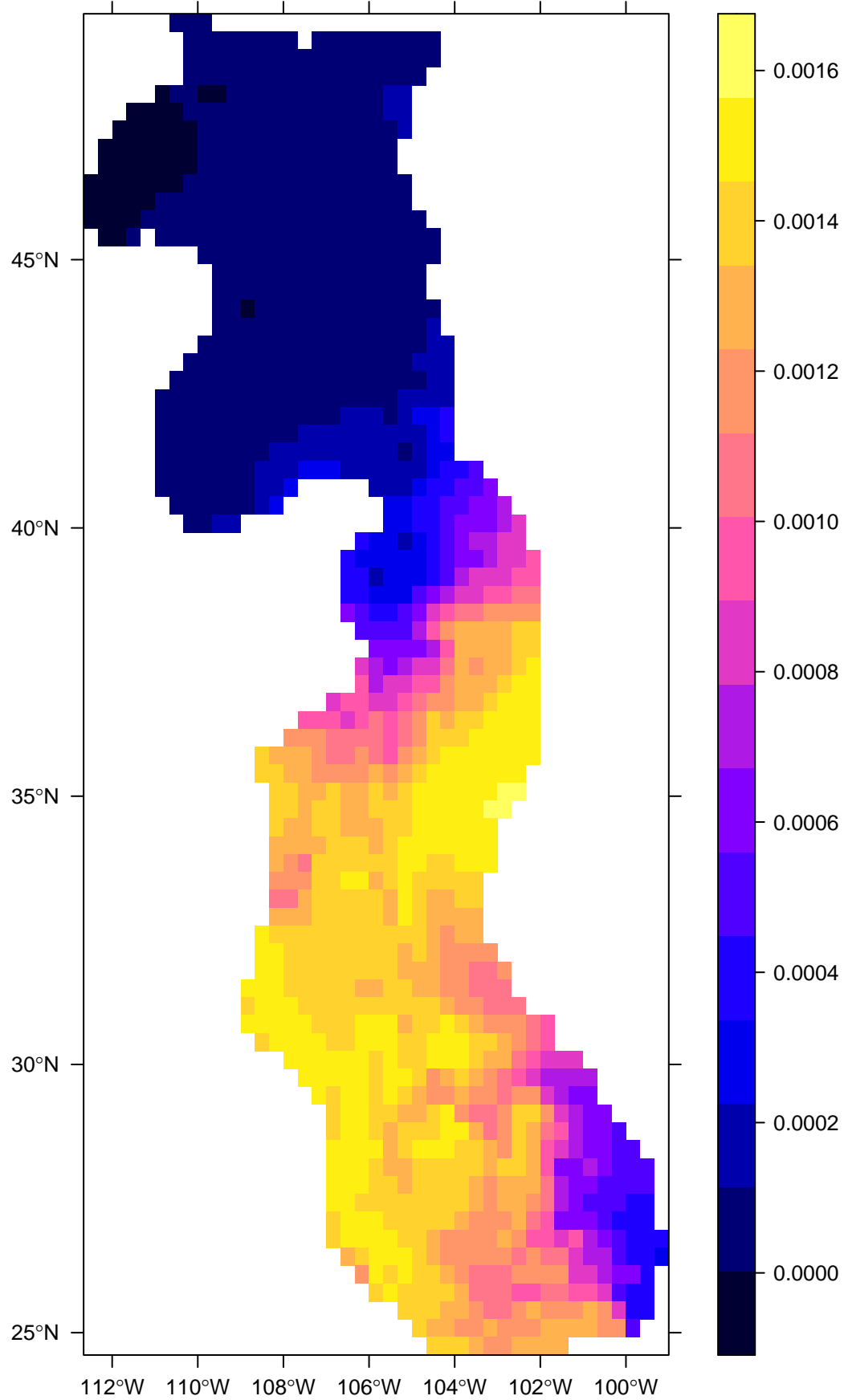
Probability Density Surface for adult_YR03_03



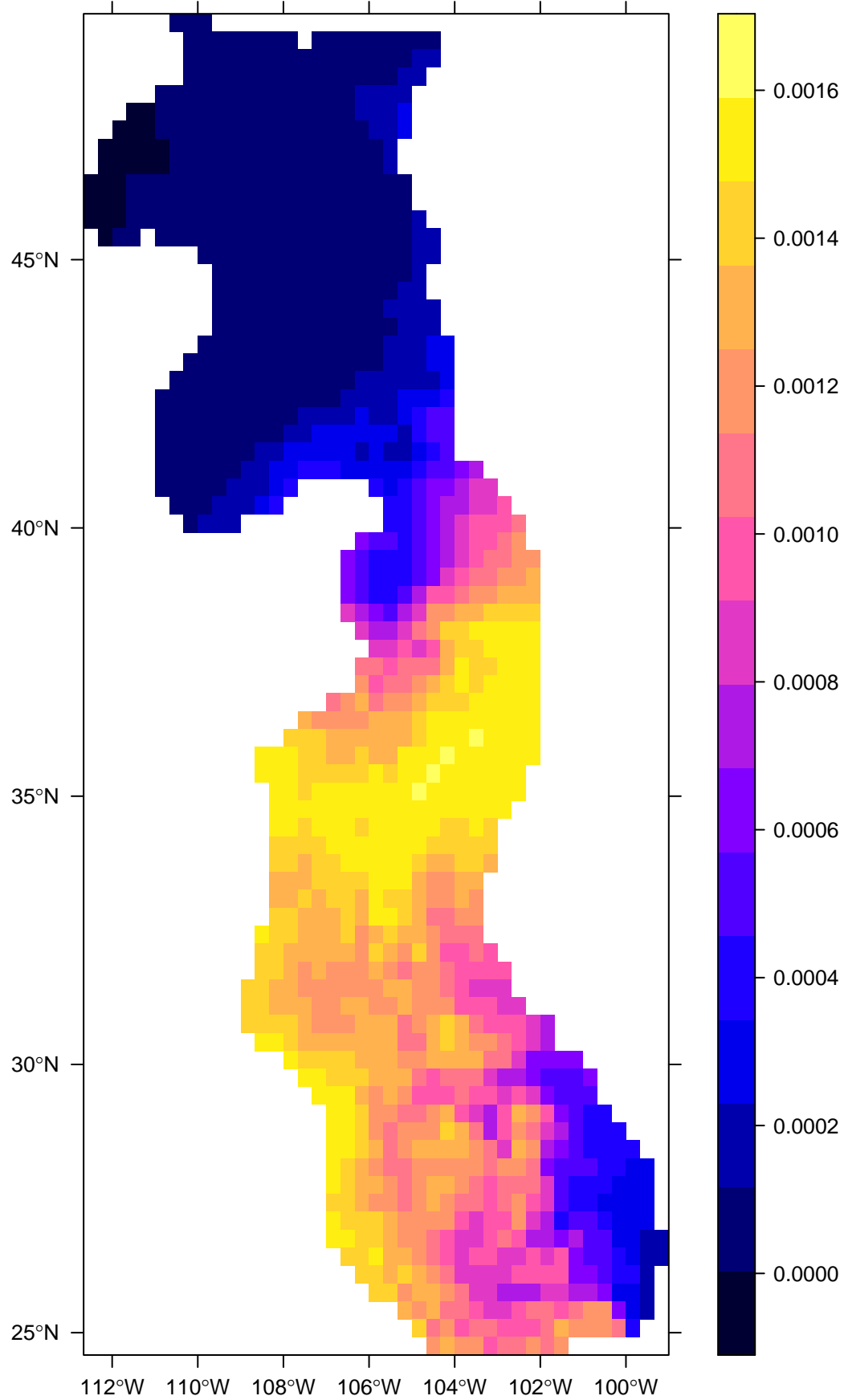
Probability Density Surface for adult_YR03_04



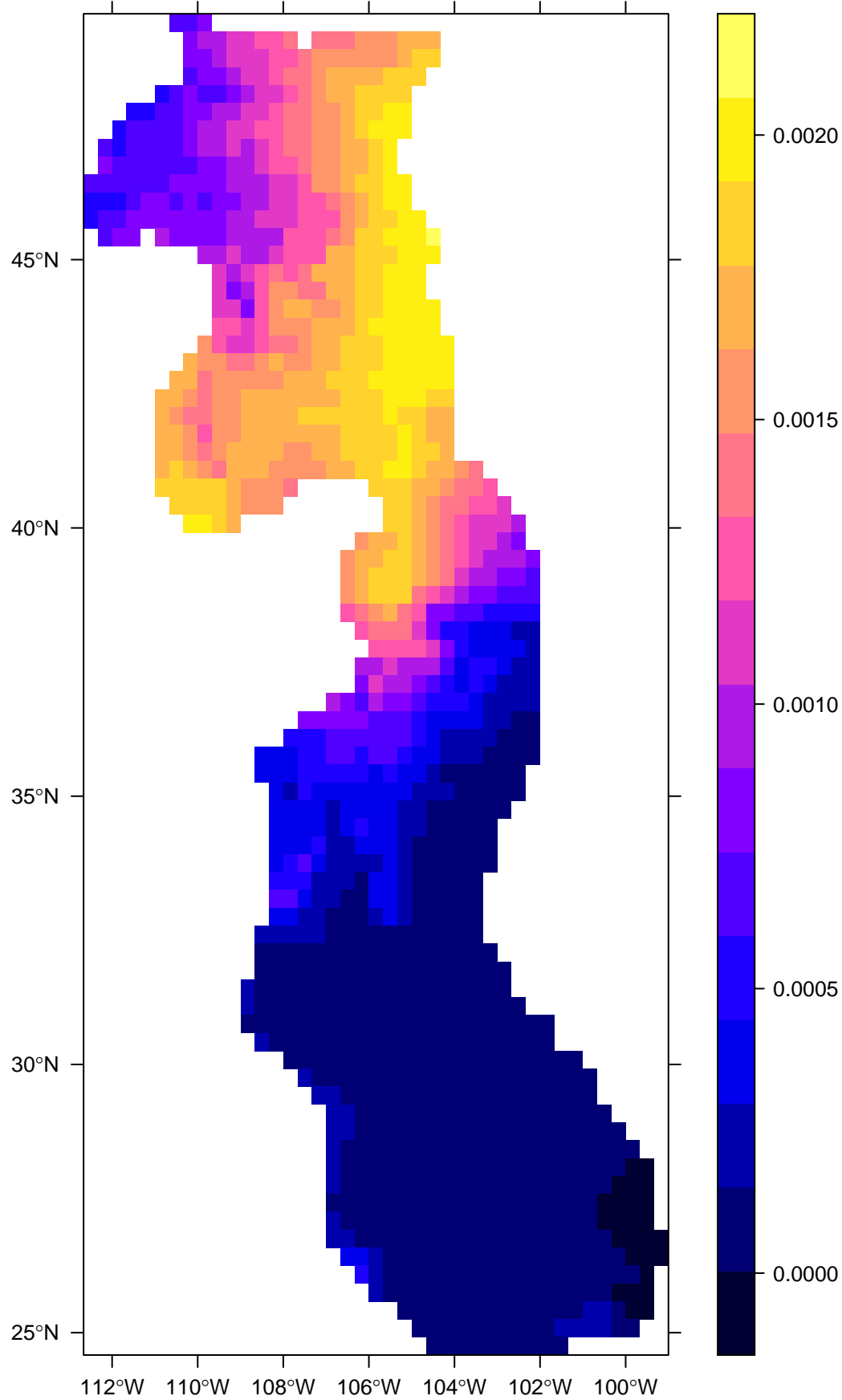
Probability Density Surface for adult_YR03_05



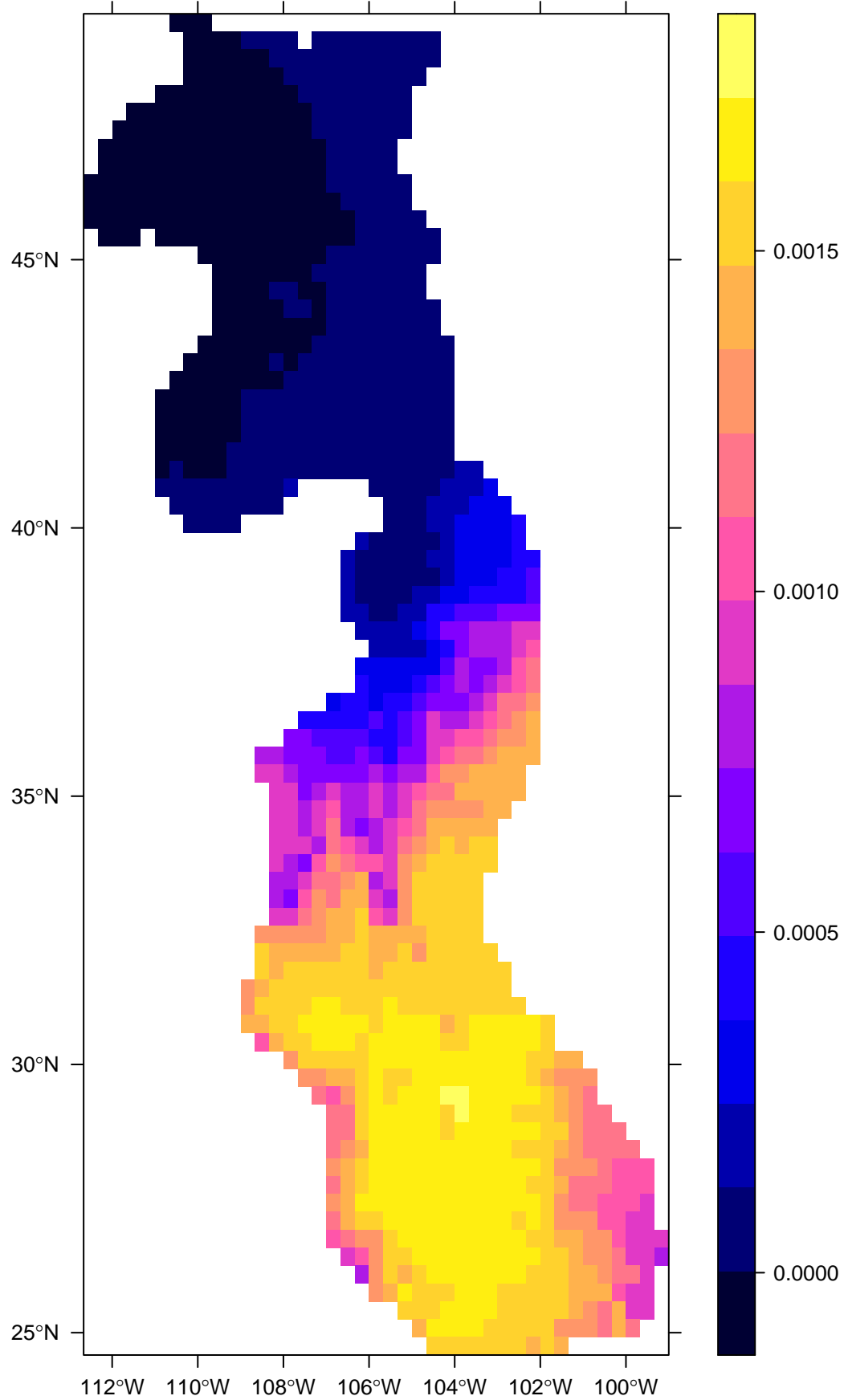
Probability Density Surface for adult_YR03_06



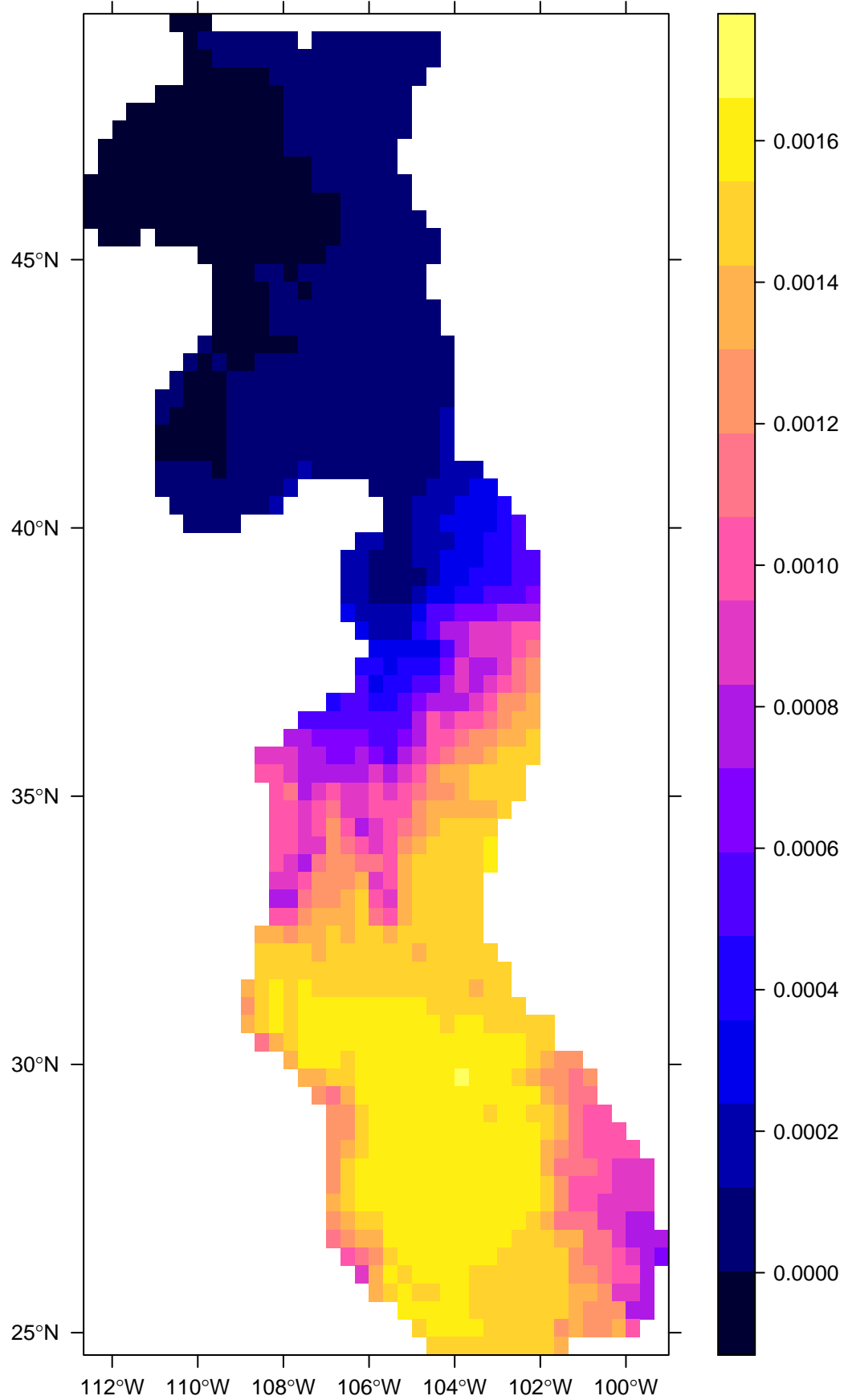
Probability Density Surface for adult_YR03_07



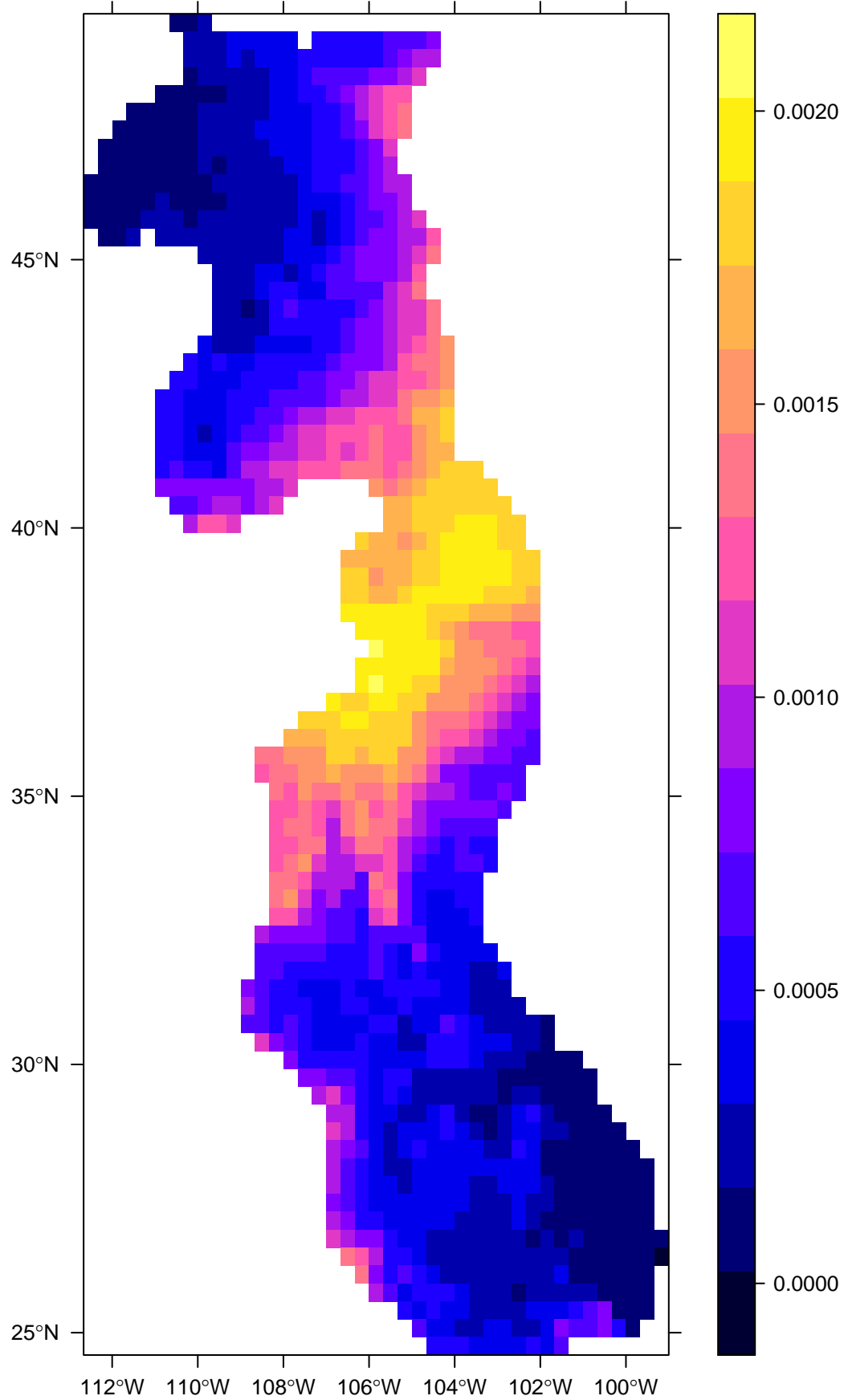
Probability Density Surface for adult_YR03_08



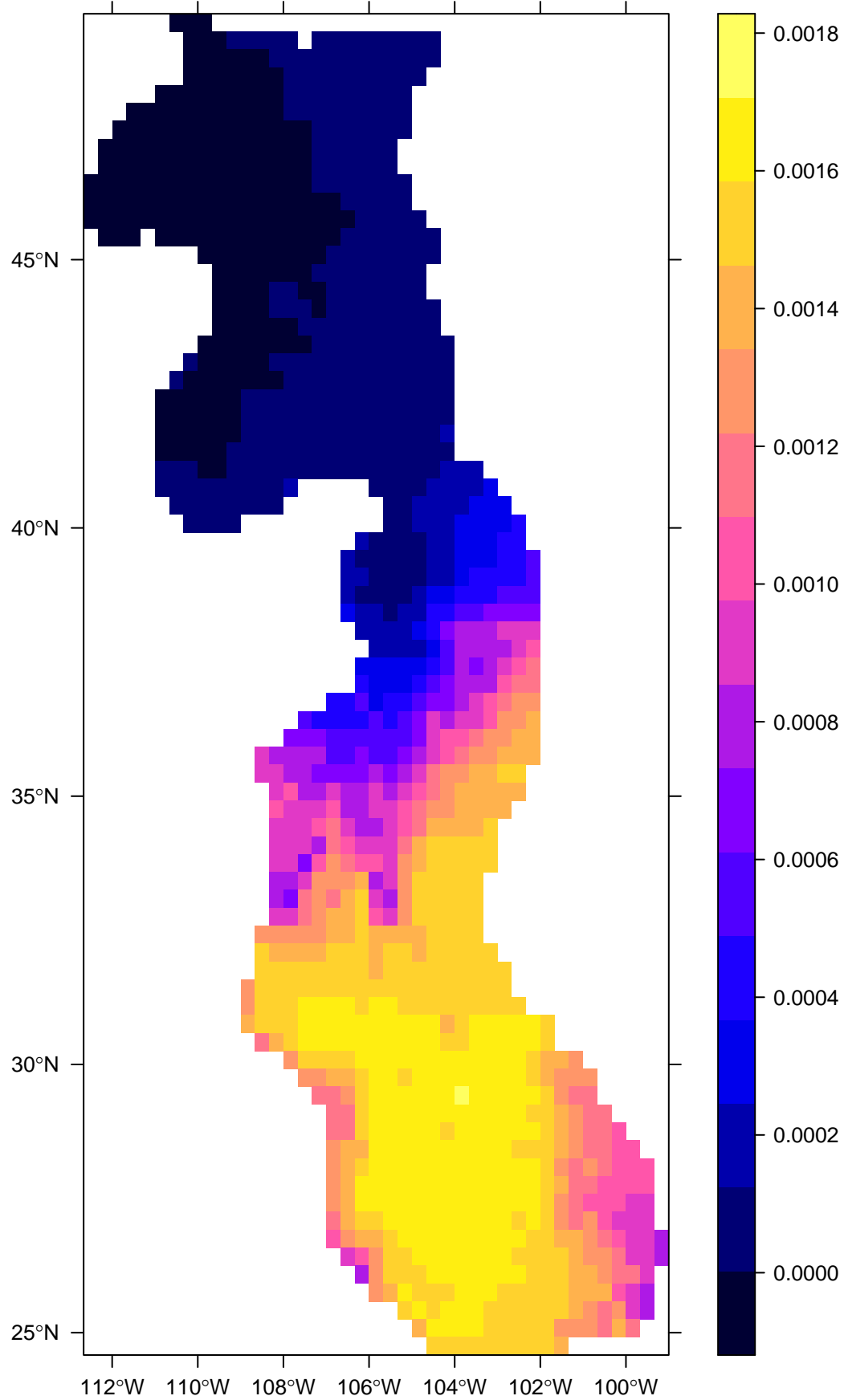
Probability Density Surface for adult_YR03_09



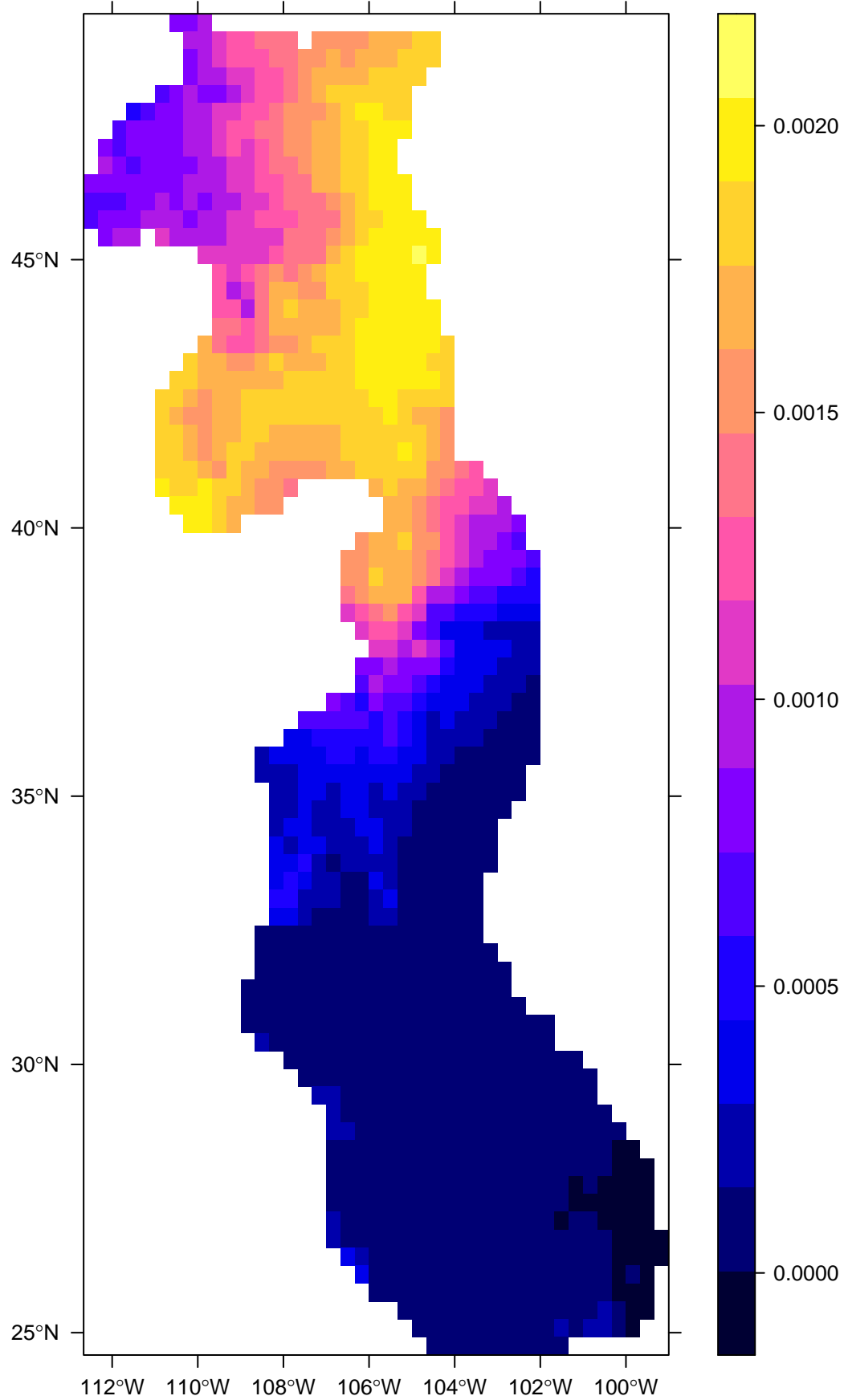
Probability Density Surface for adult_YR03_10



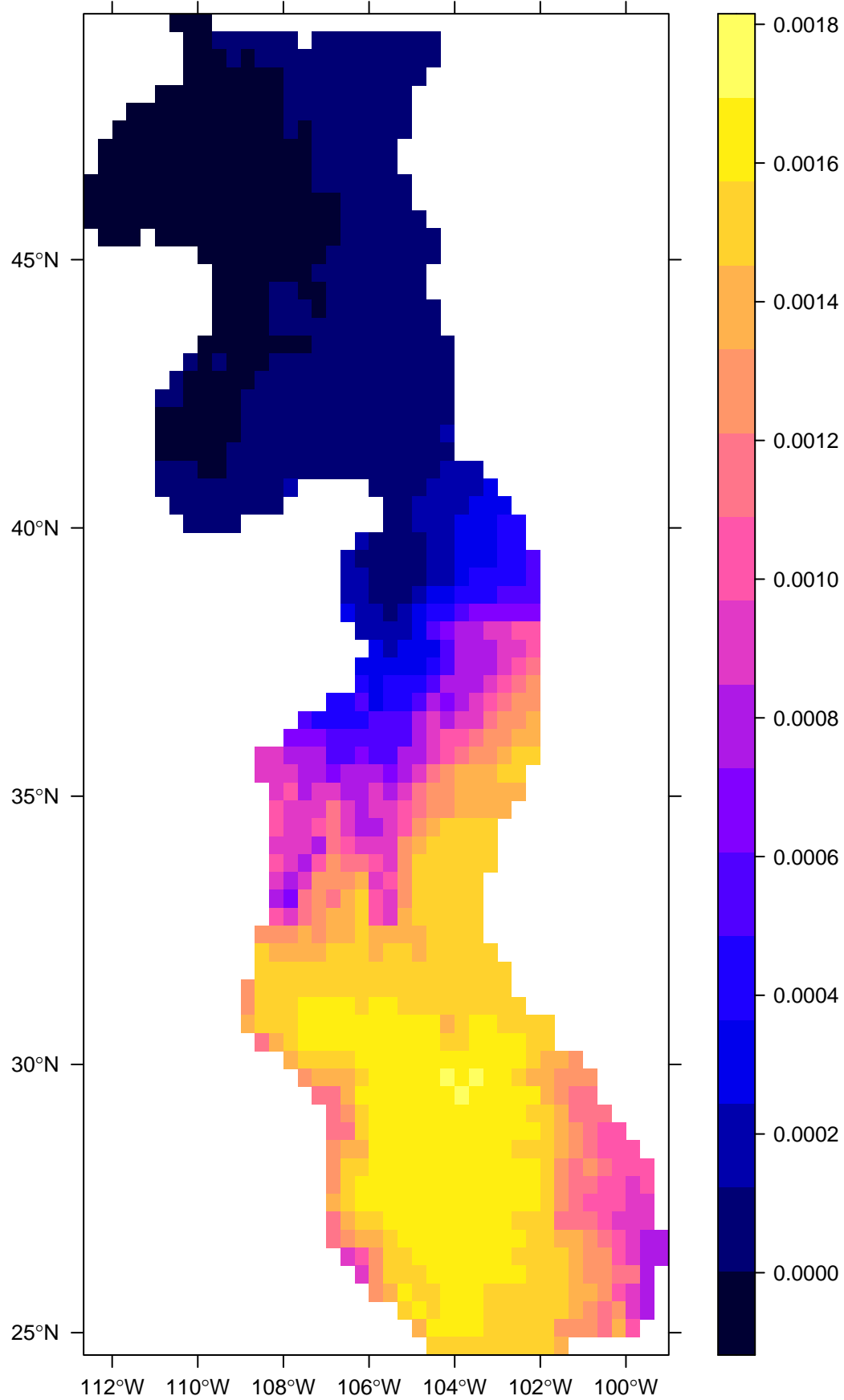
Probability Density Surface for adult_YR03_11



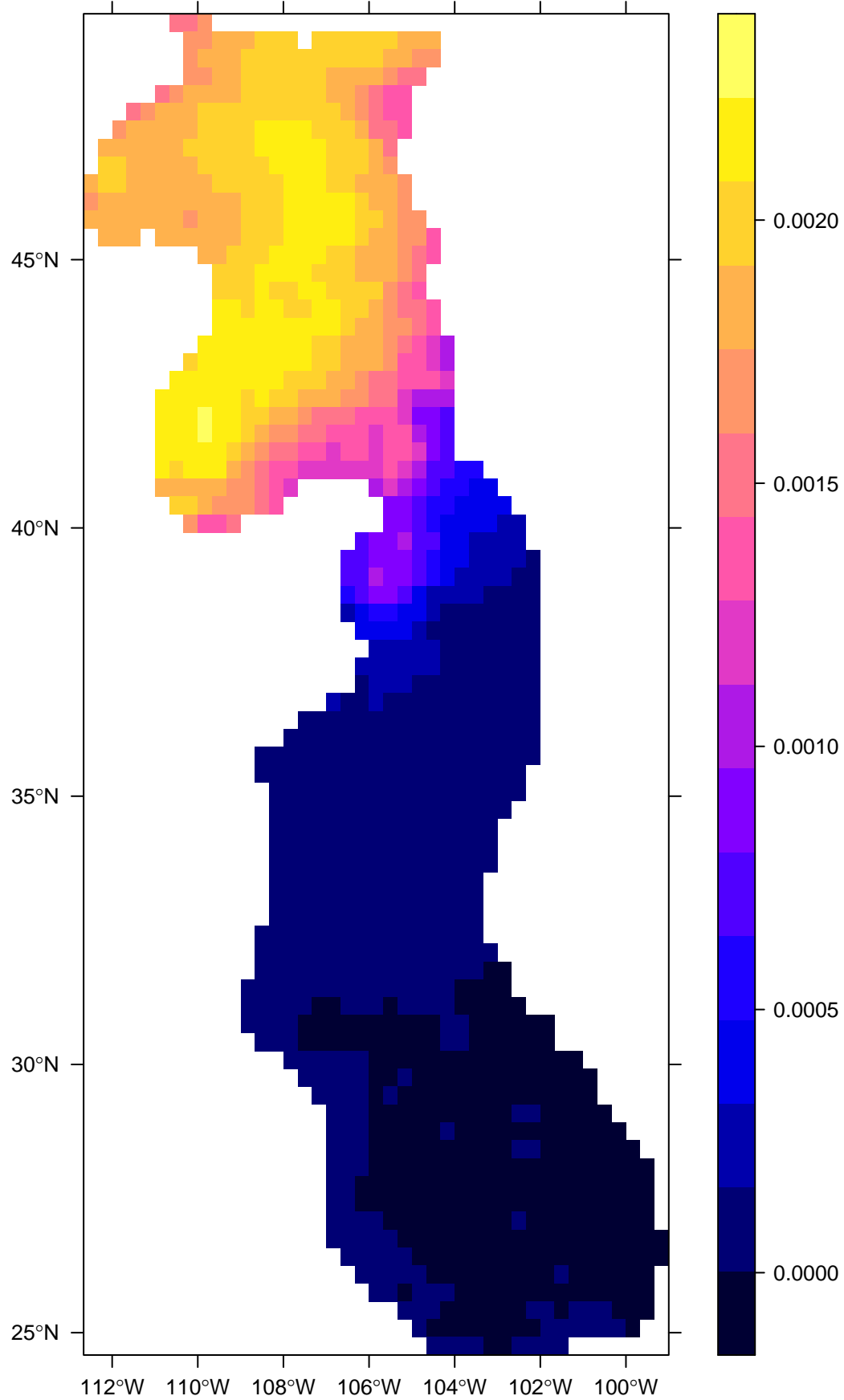
Probability Density Surface for adult_YR03_12



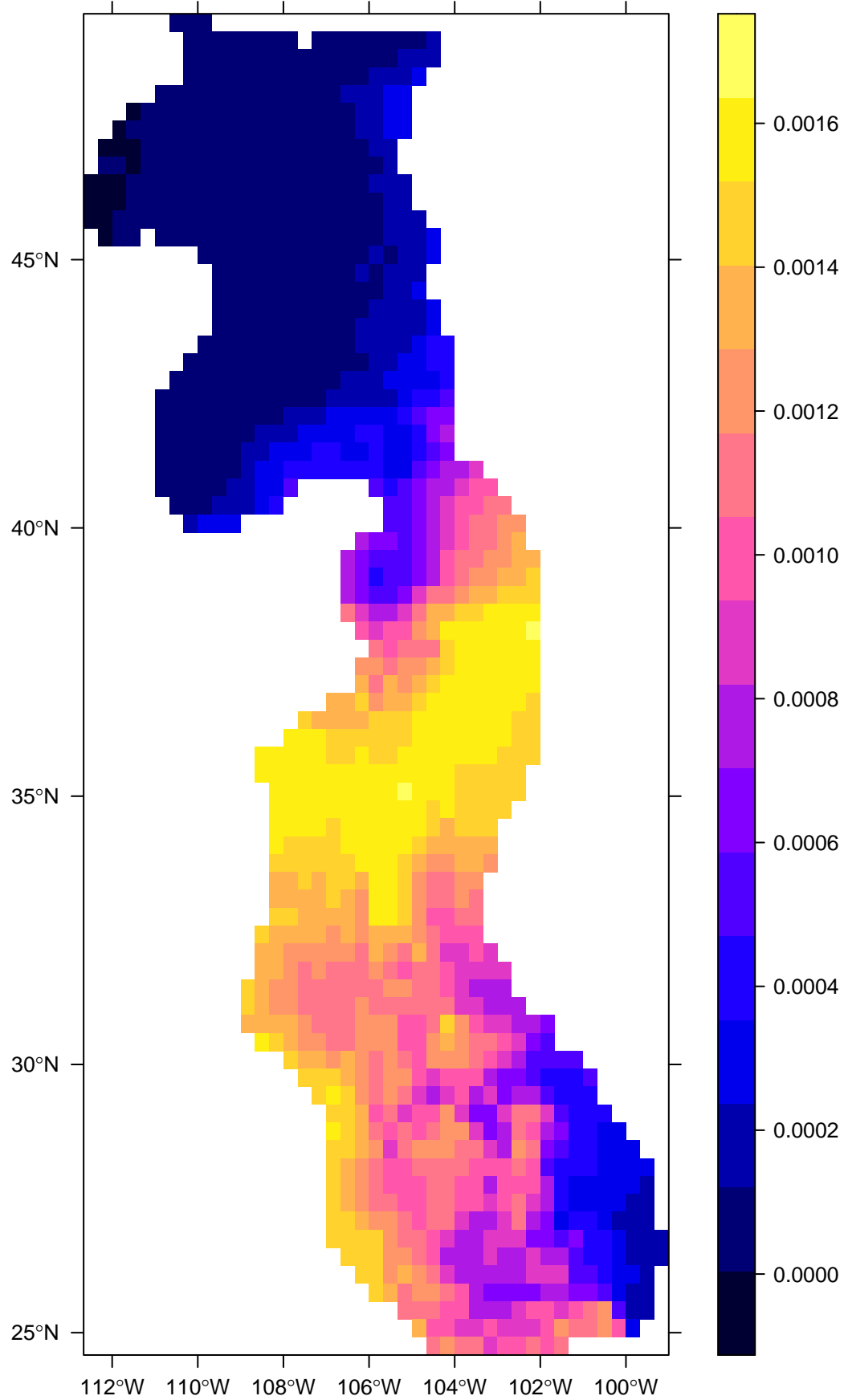
Probability Density Surface for adult_YR03_13



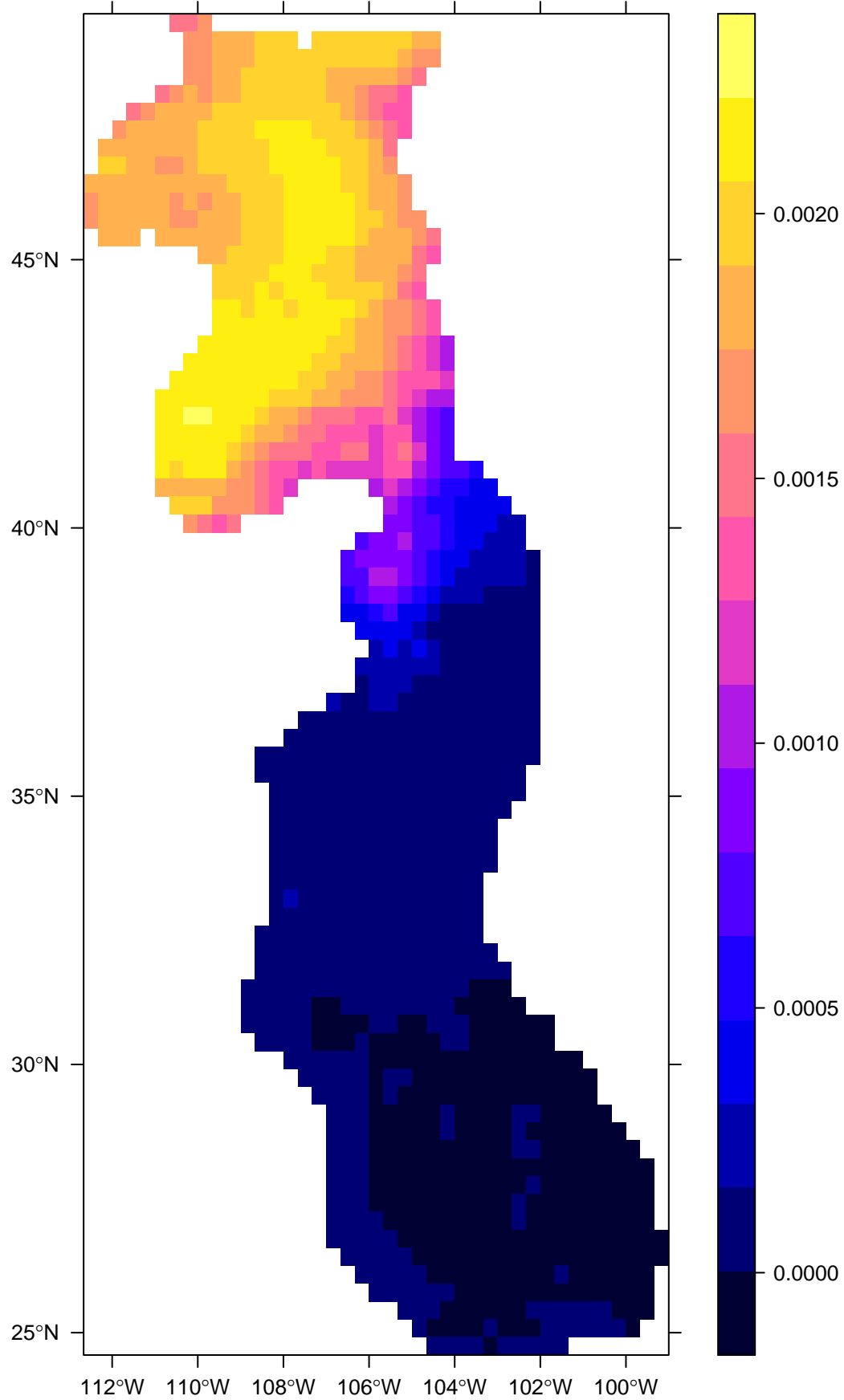
Probability Density Surface for adult_YR03_14



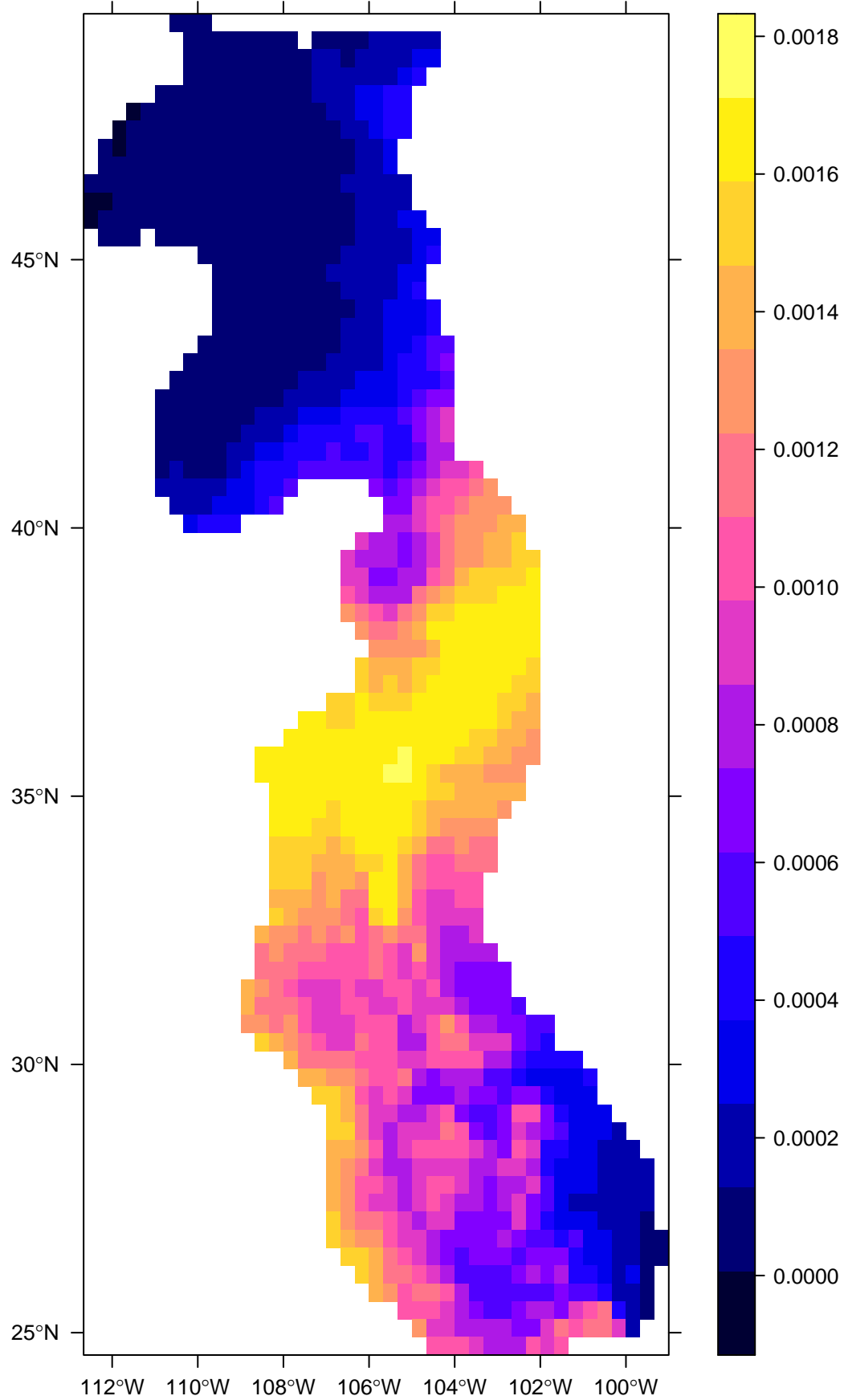
Probability Density Surface for adult_YR03_15



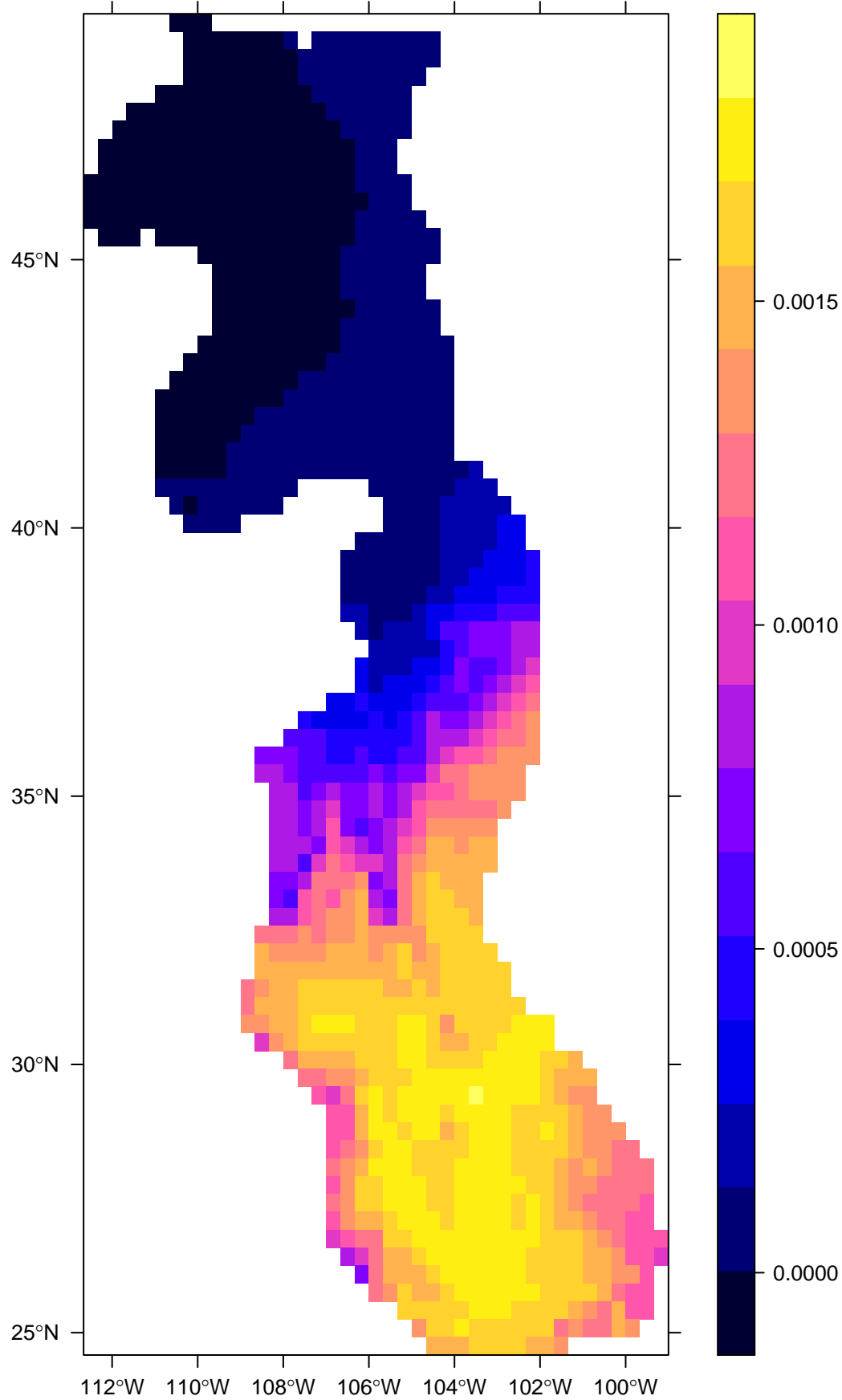
Probability Density Surface for adult_YR03_16



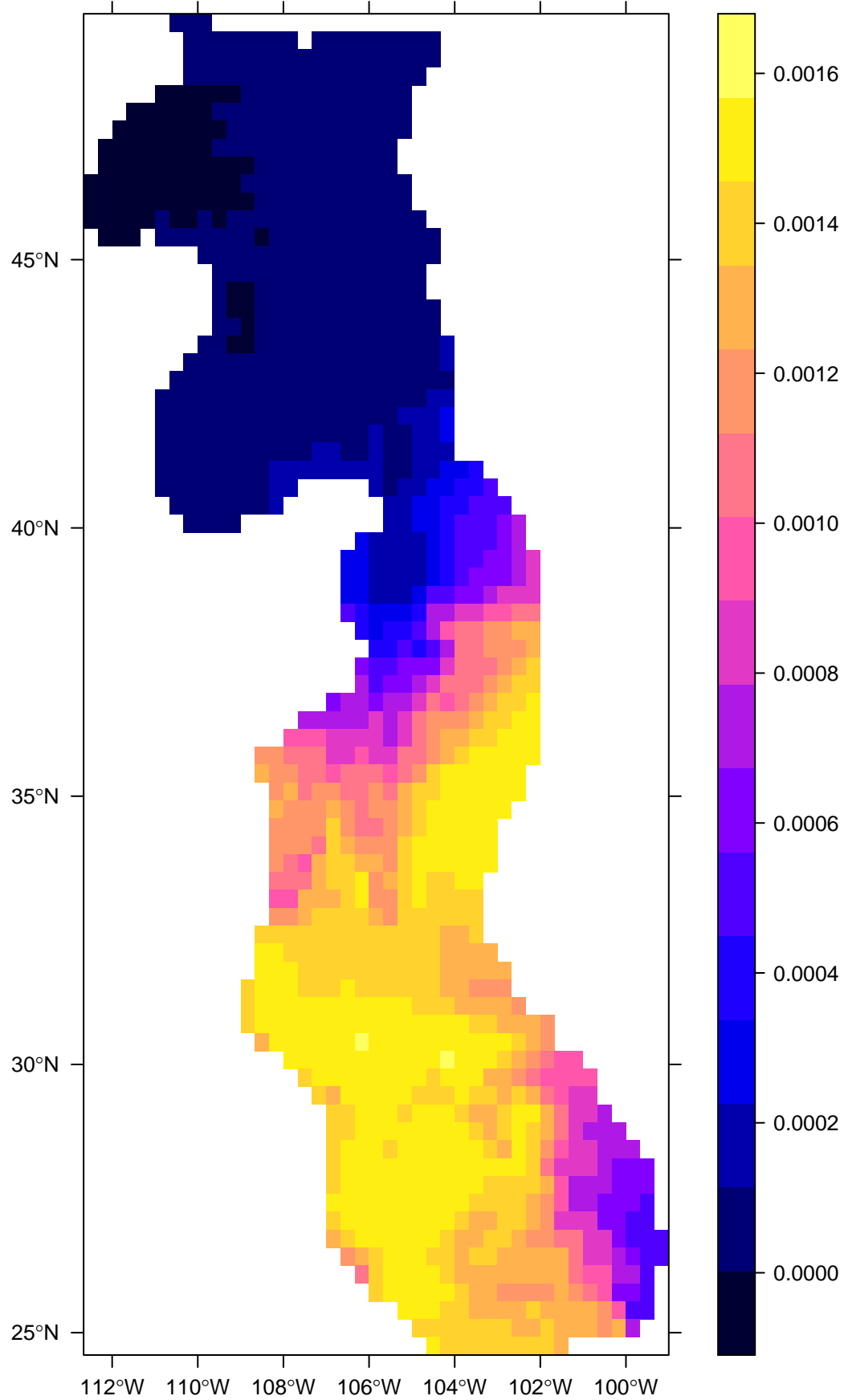
Probability Density Surface for adult_YR03_17



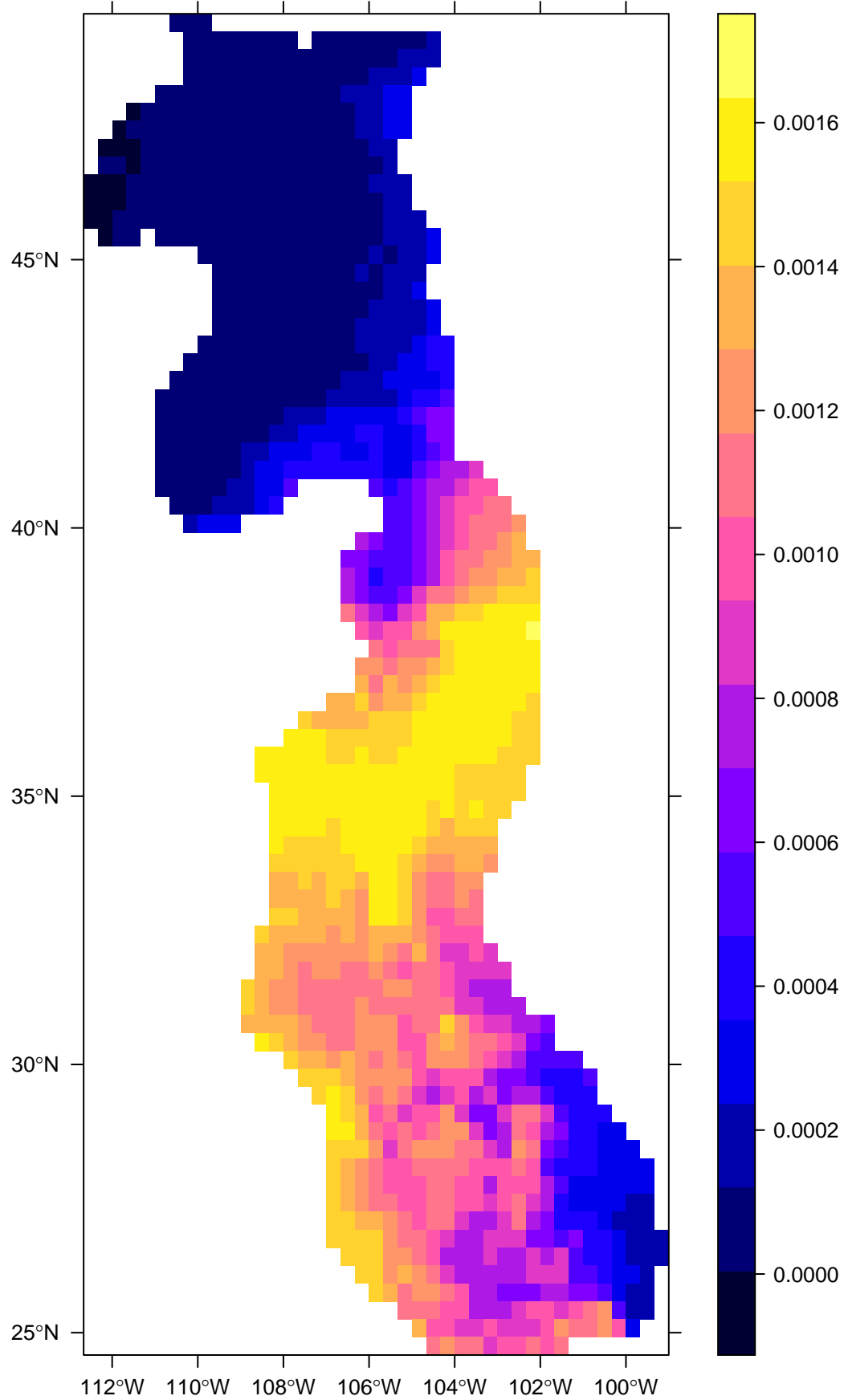
Probability Density Surface for adult_YR03_18



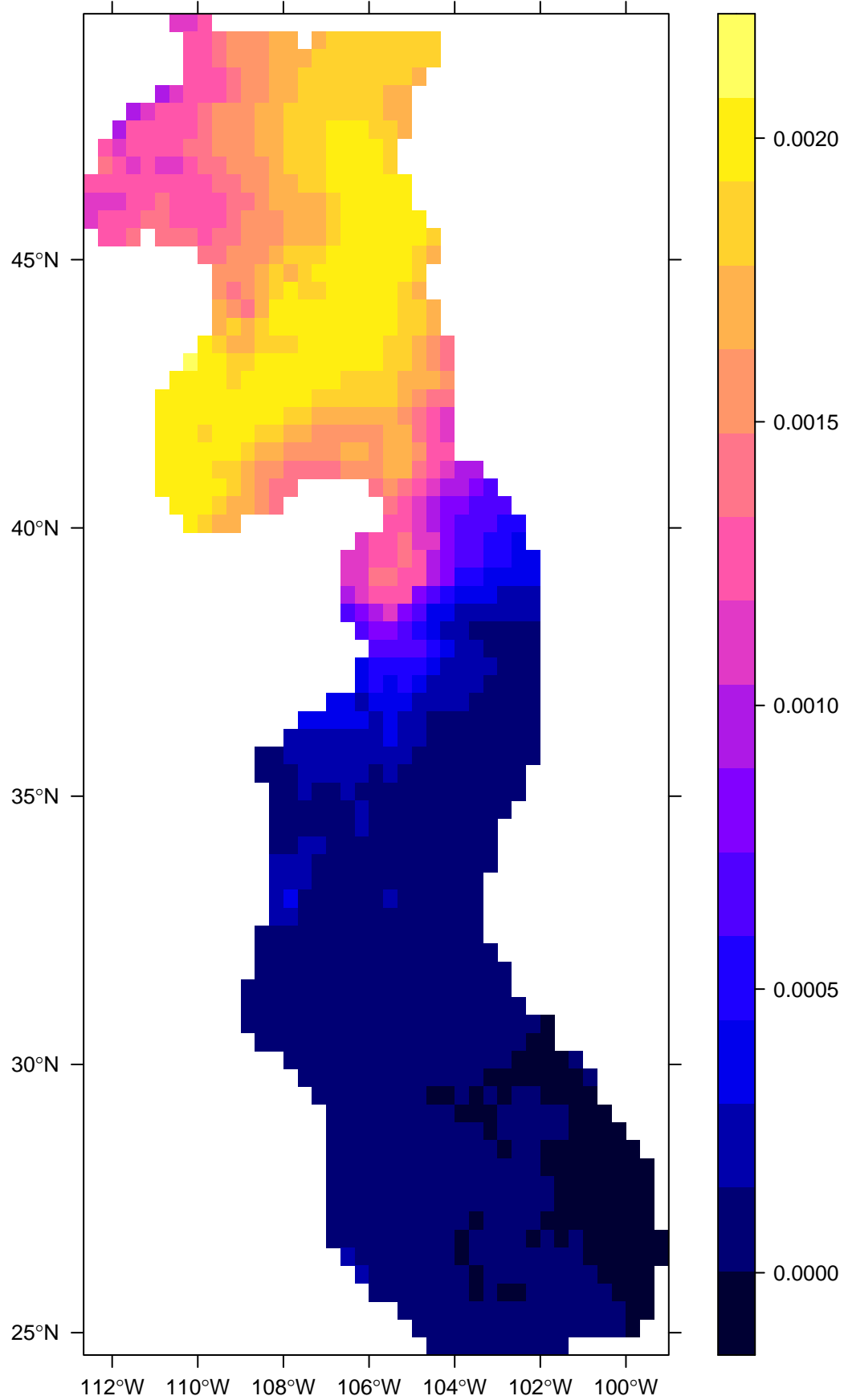
Probability Density Surface for adult_YR03_19



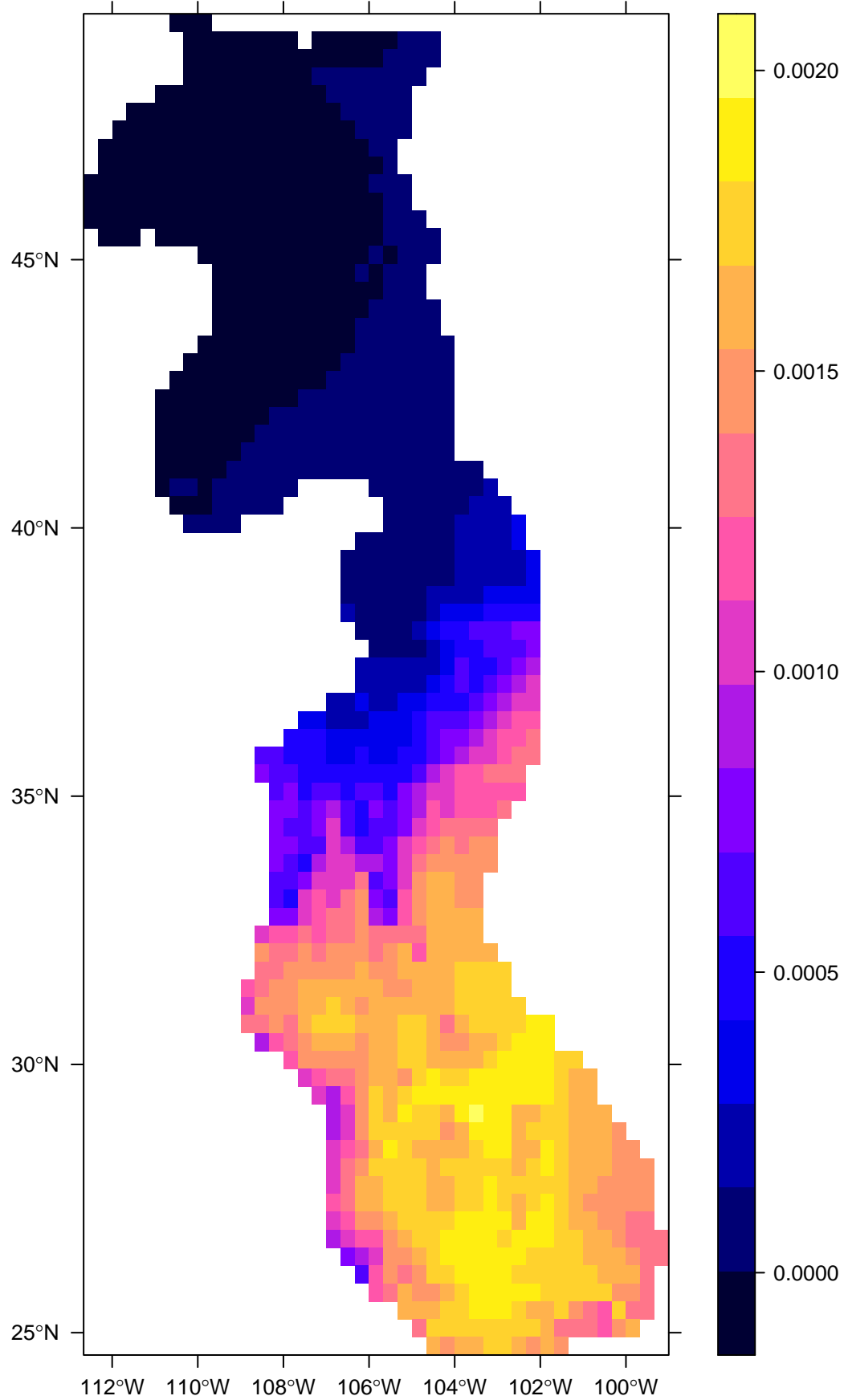
Probability Density Surface for adult_YR03_20



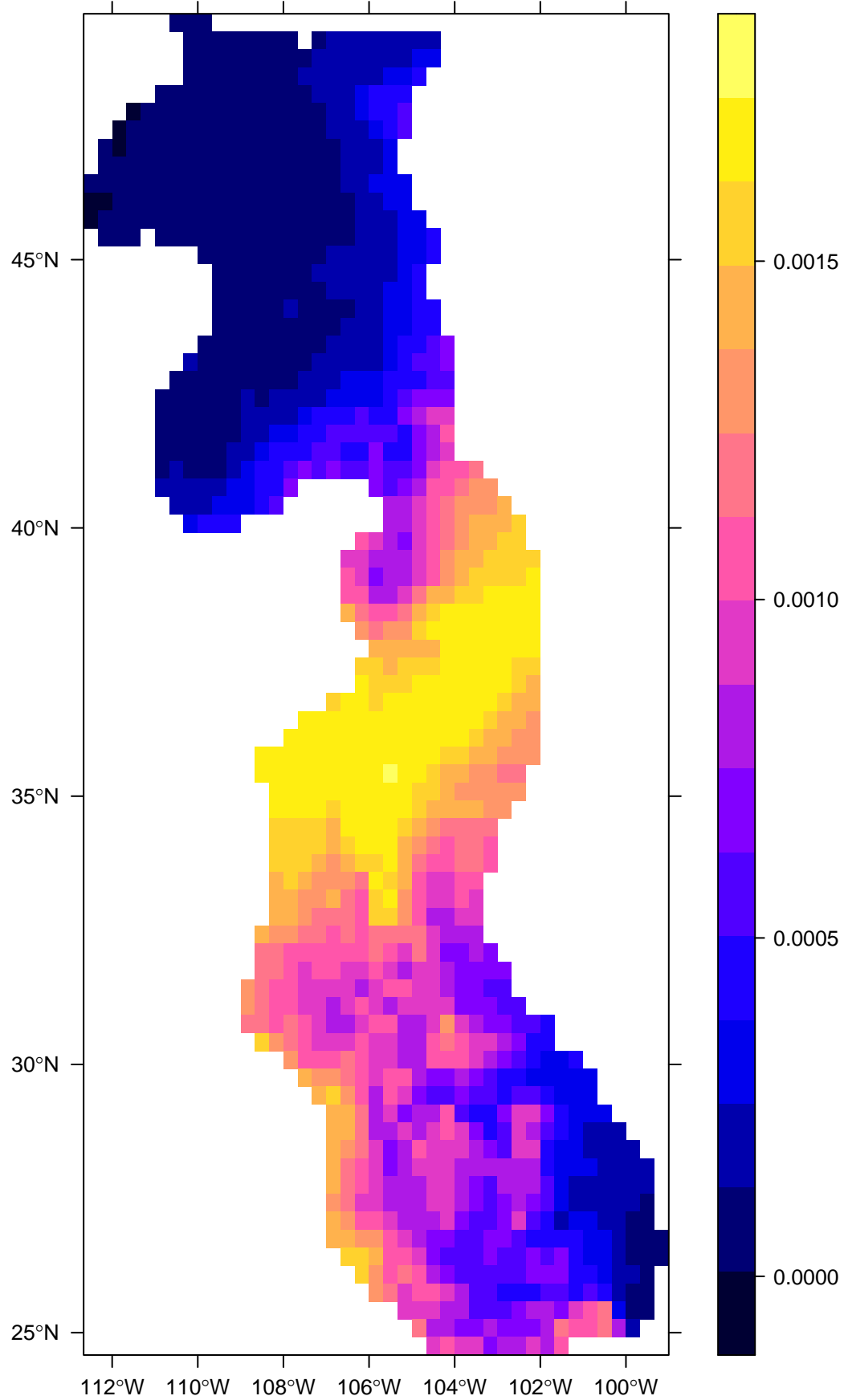
Probability Density Surface for adult_YR03_21



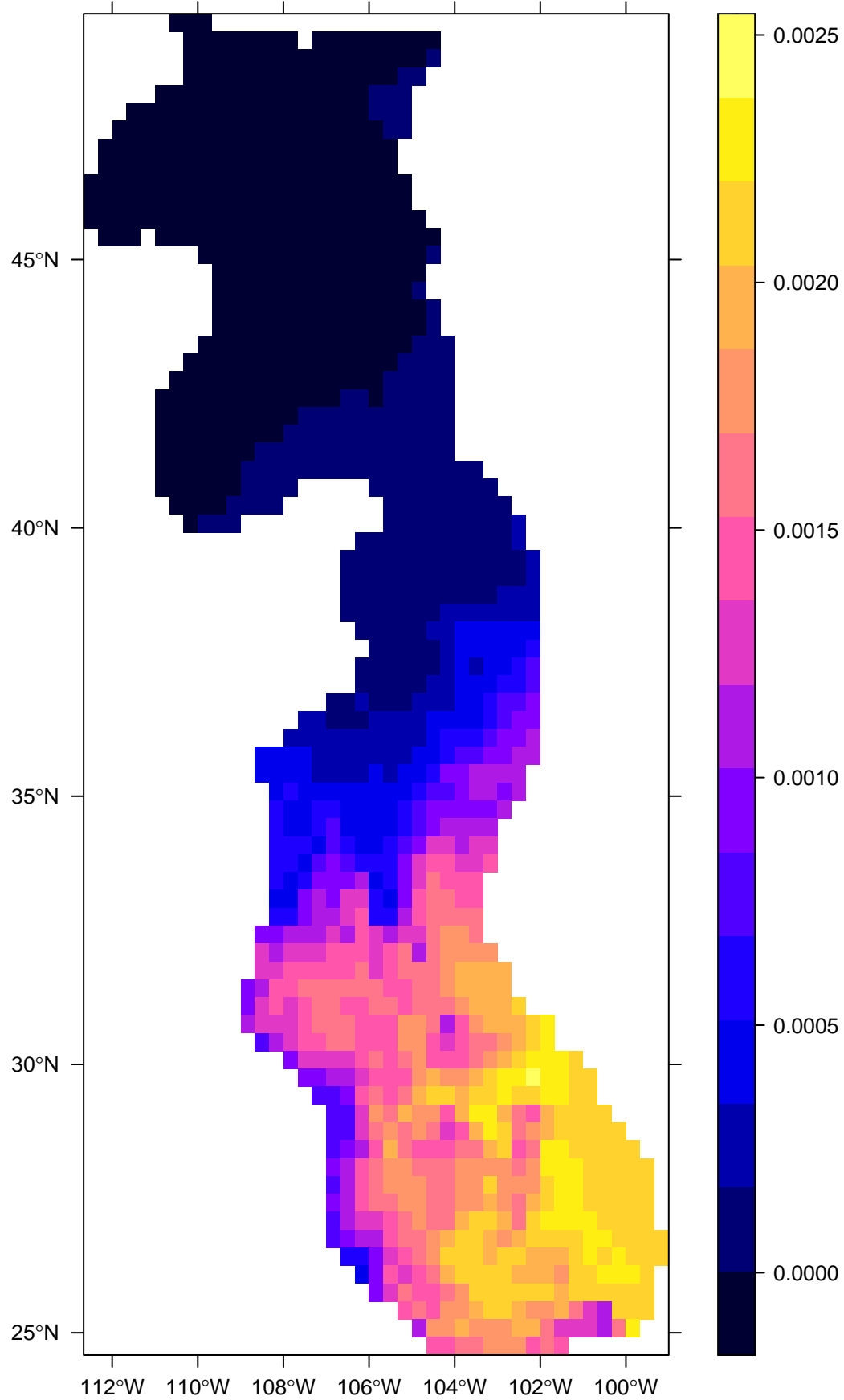
Probability Density Surface for adult_YR03_22



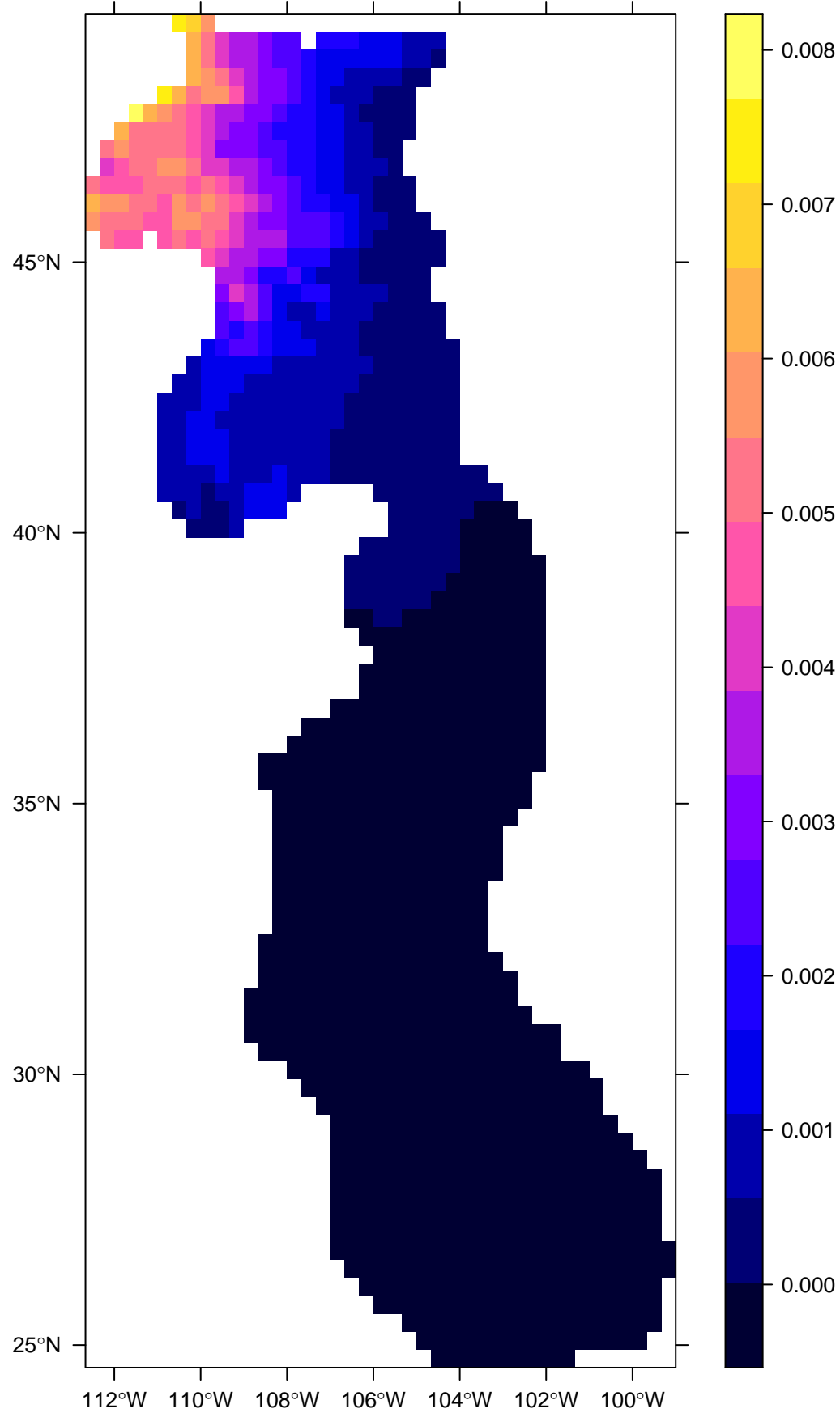
Probability Density Surface for adult_YR03_23



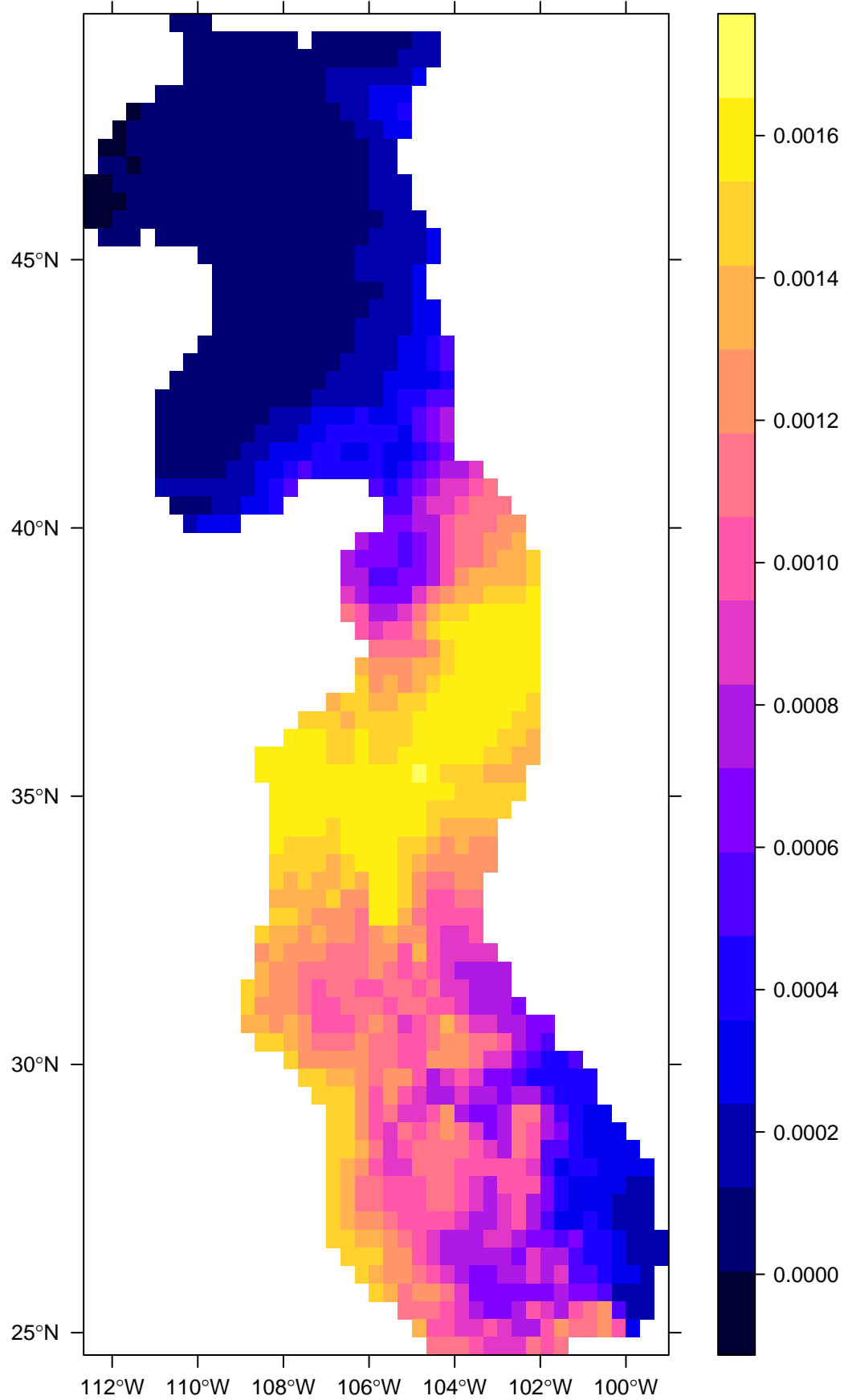
Probability Density Surface for adult_YR03_24



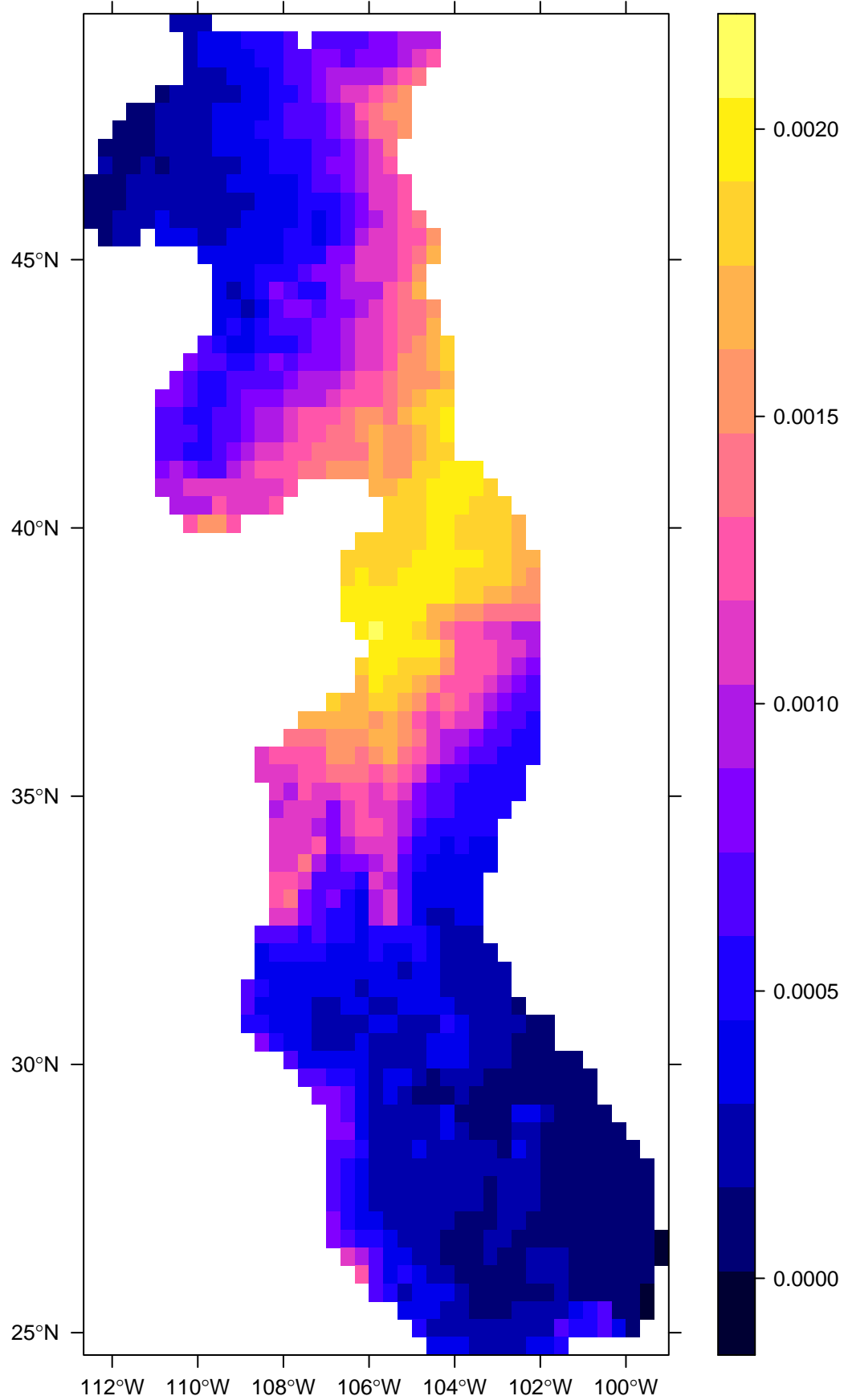
Probability Density Surface for adult_YR03_25



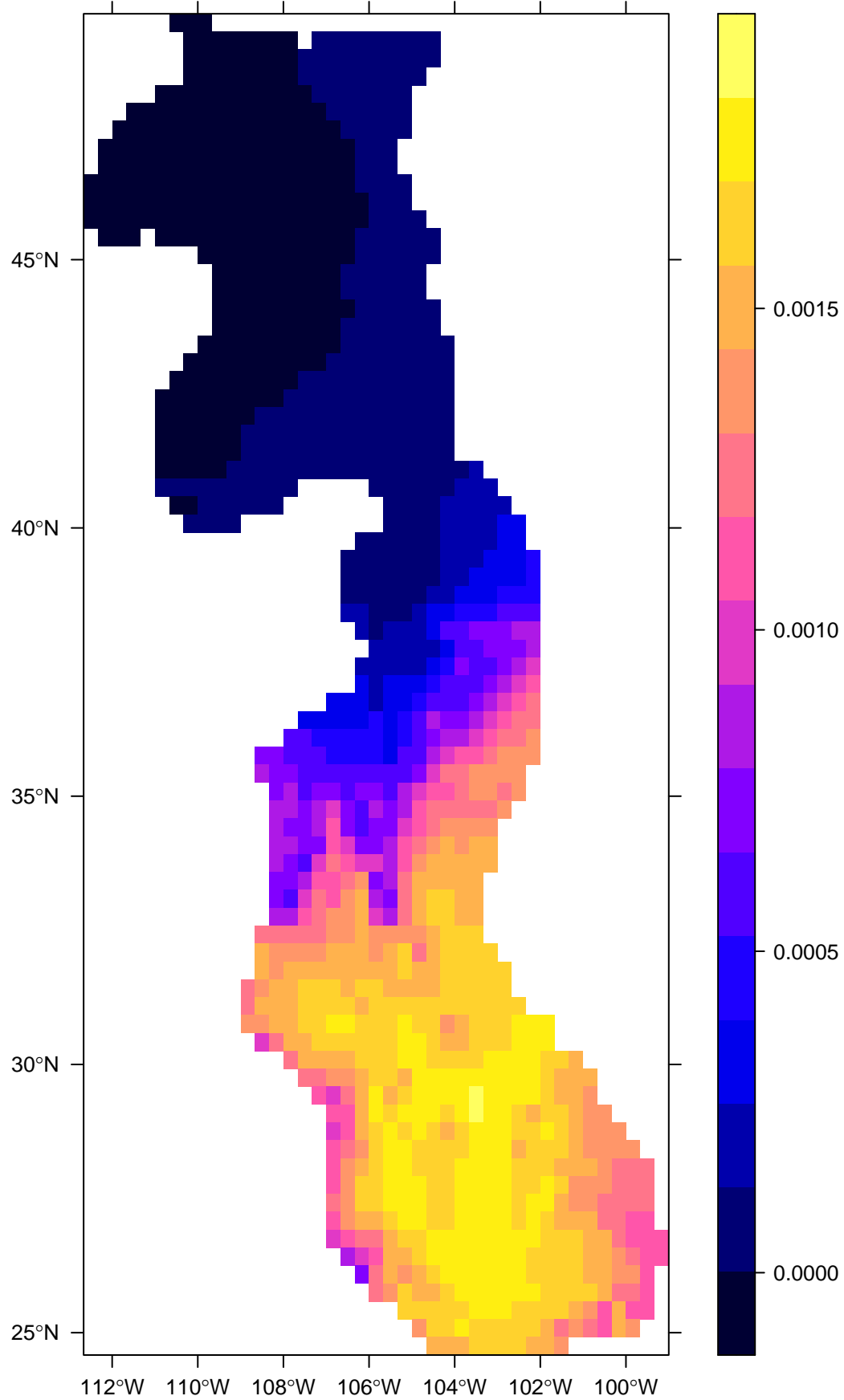
Probability Density Surface for adult_YR03_26



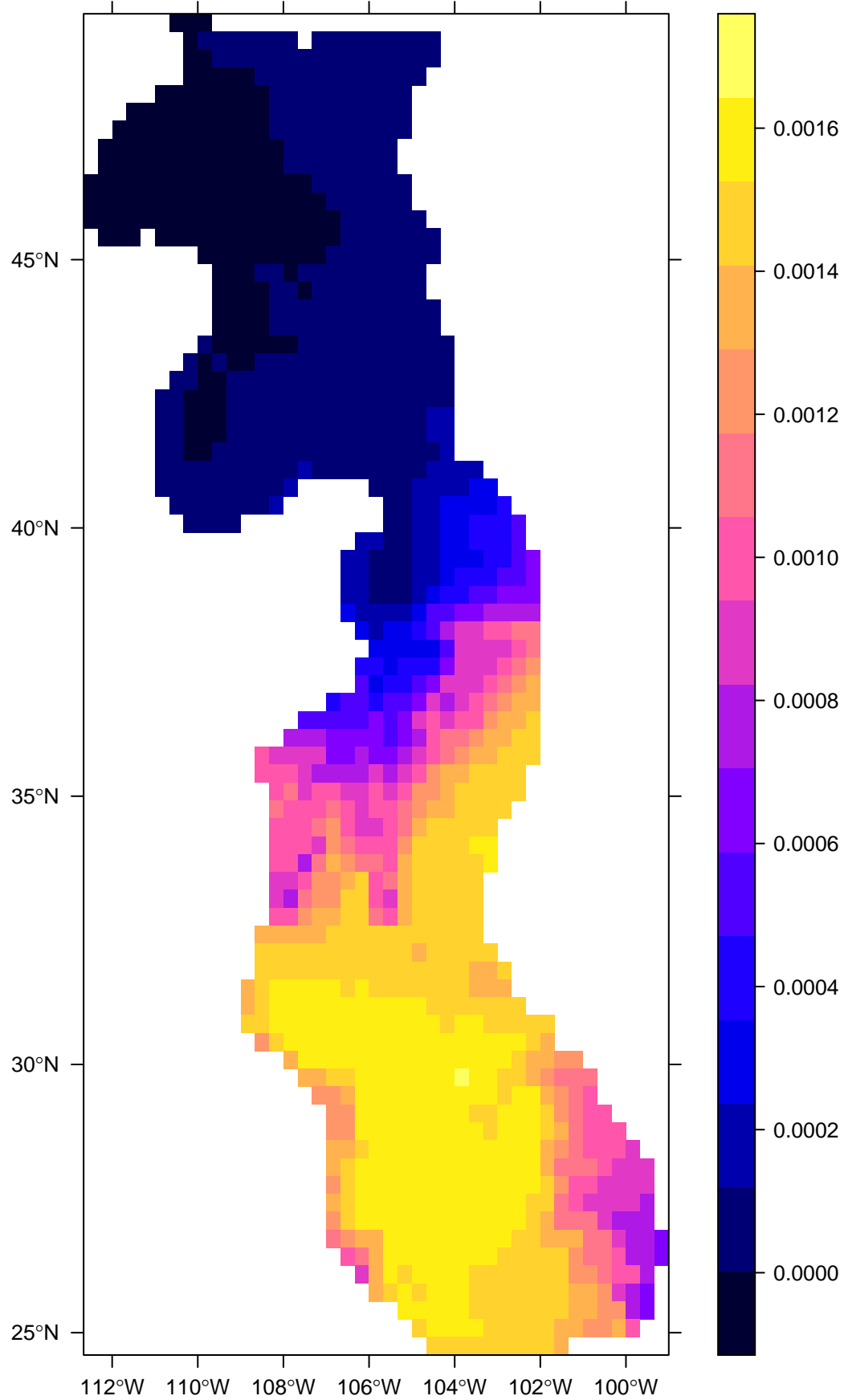
Probability Density Surface for adult_YR03_27



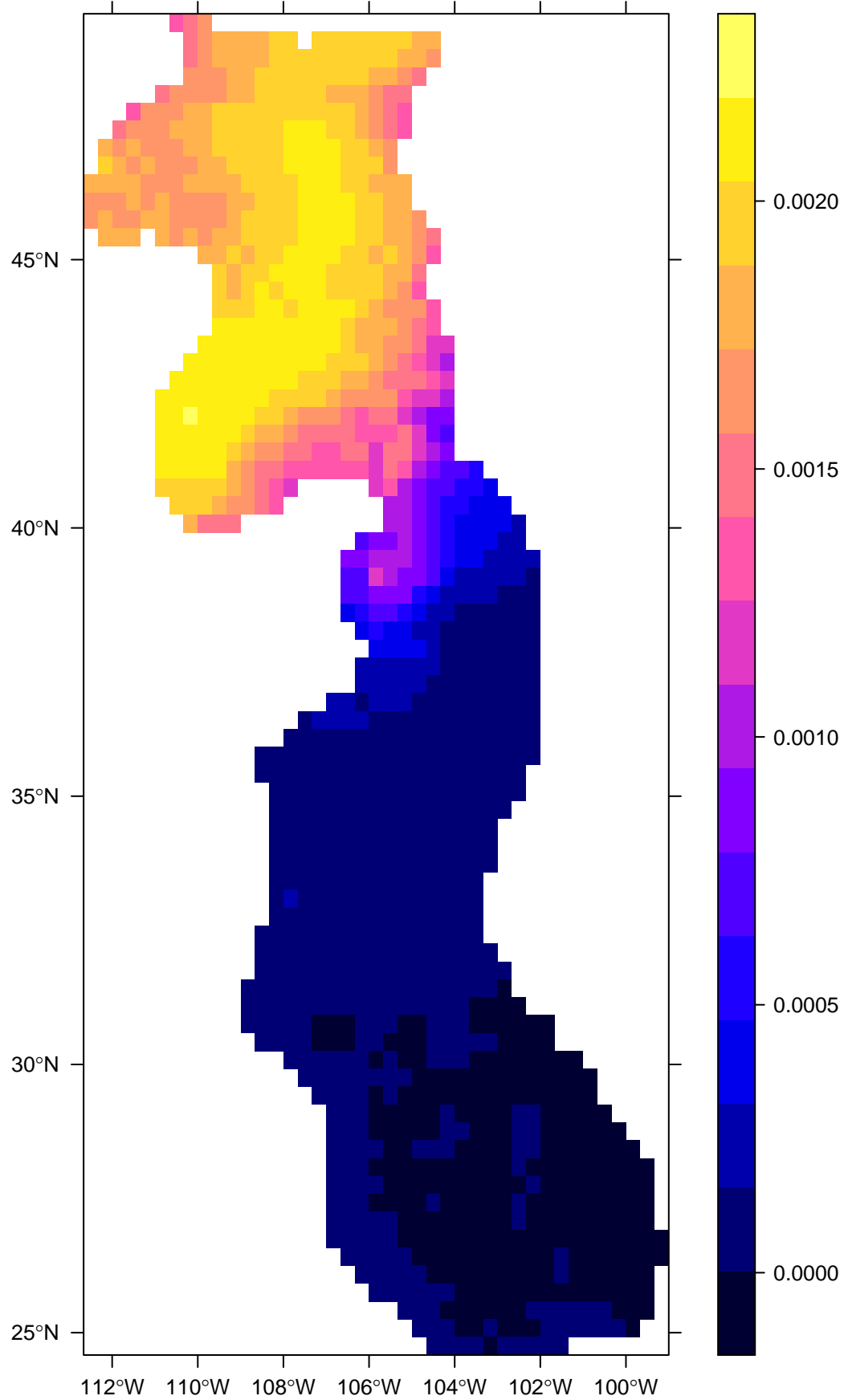
Probability Density Surface for adult_YR03_28



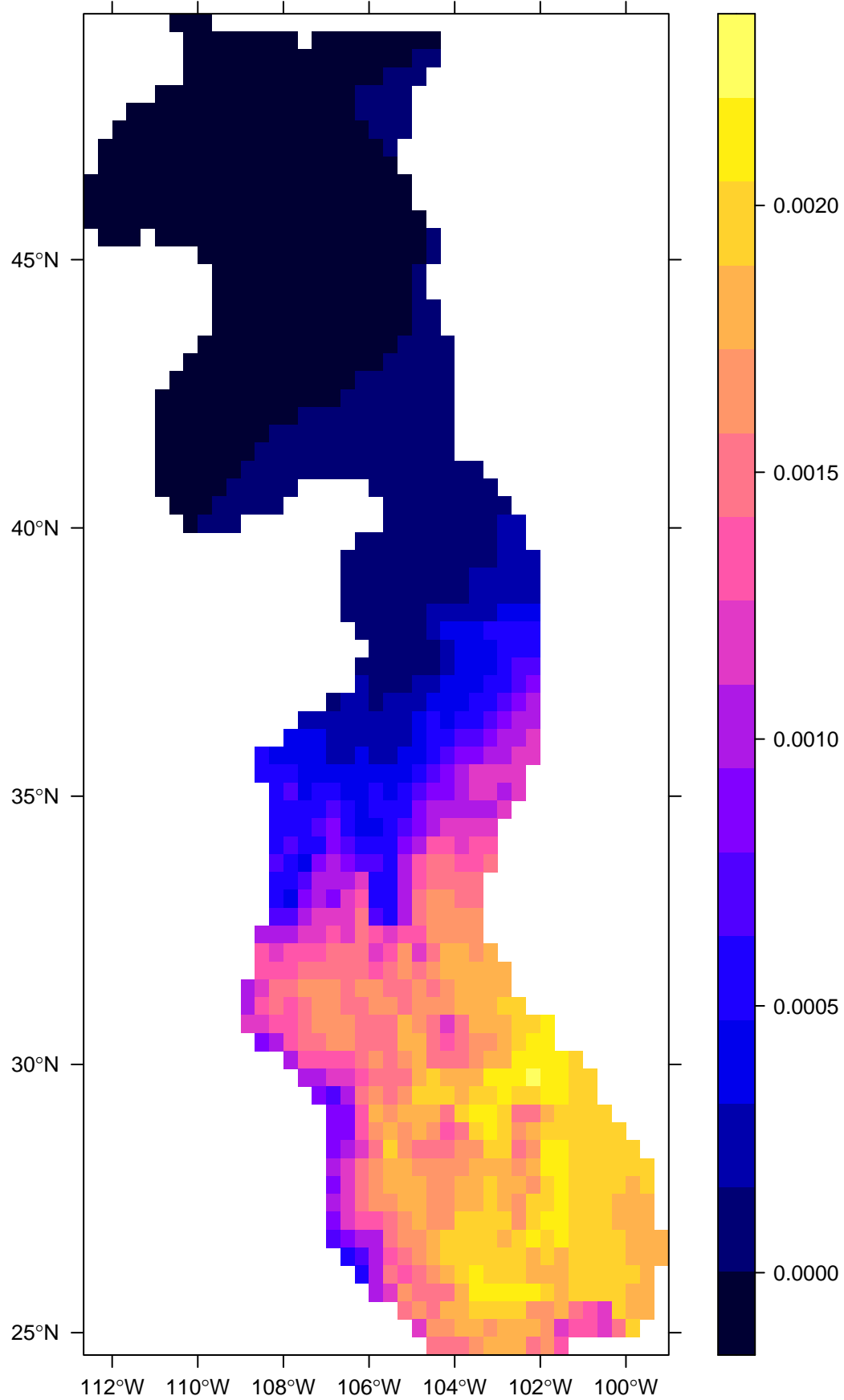
Probability Density Surface for adult_YR03_29



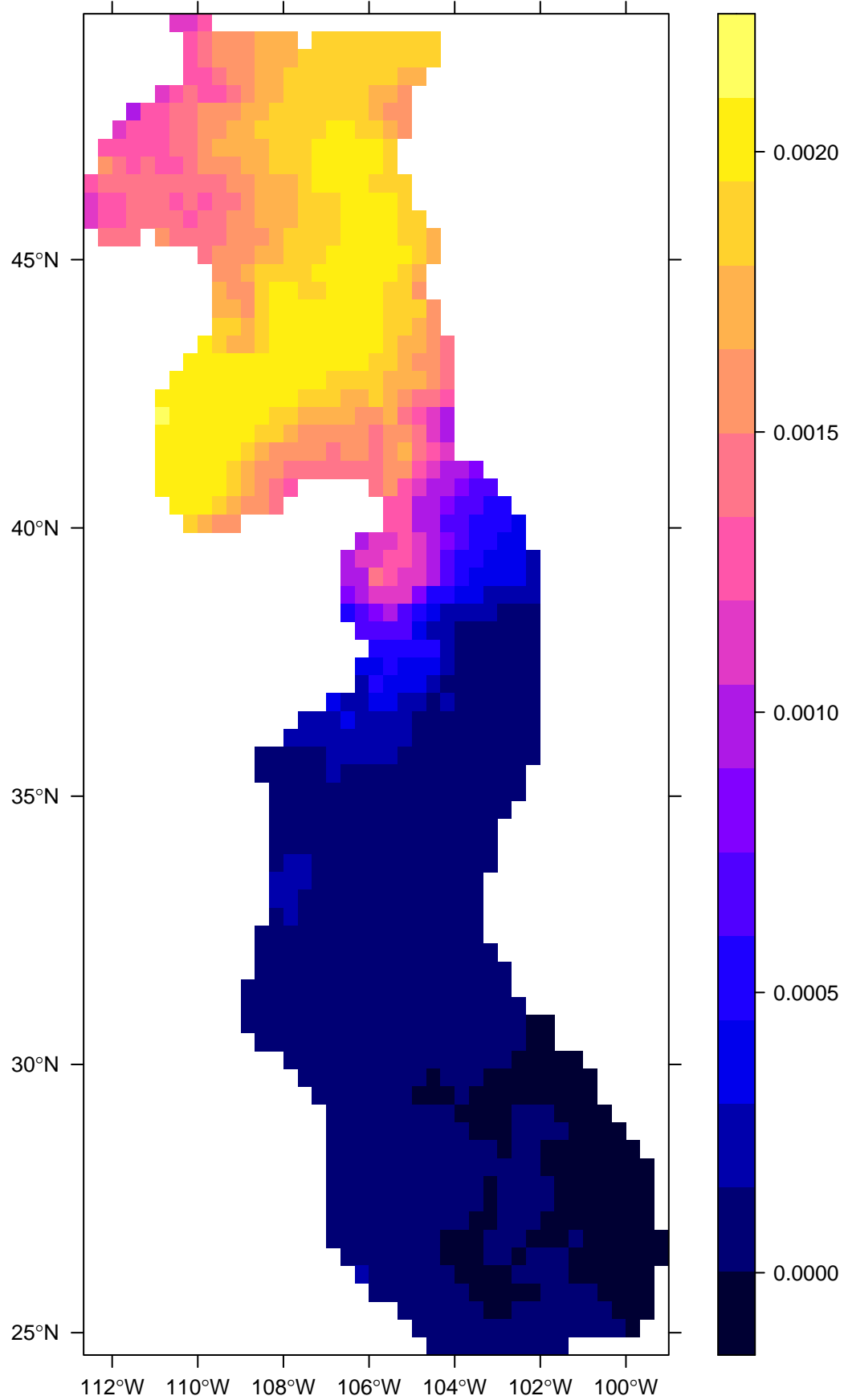
Probability Density Surface for adult_YR03_30



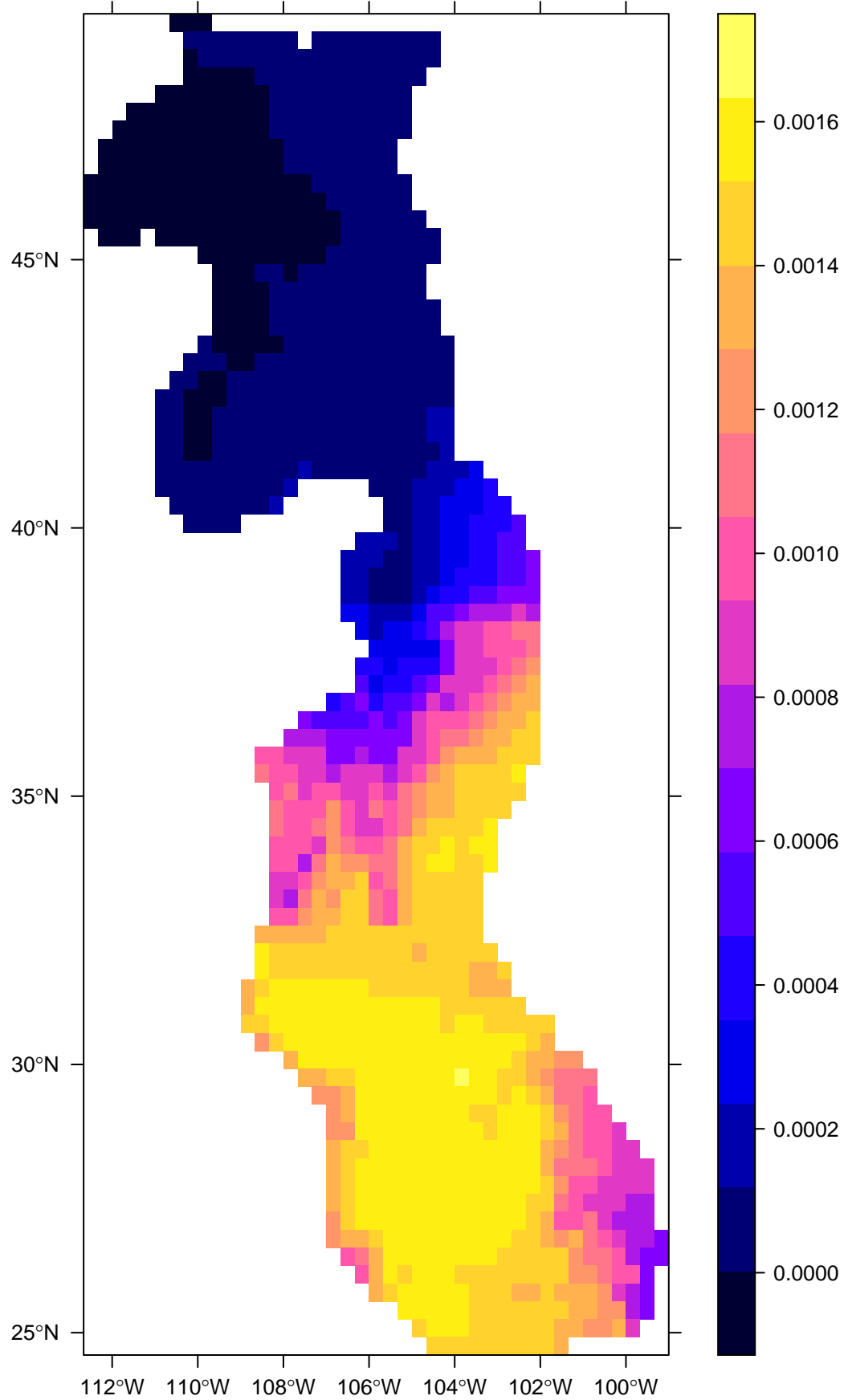
Probability Density Surface for adult_YR03_31



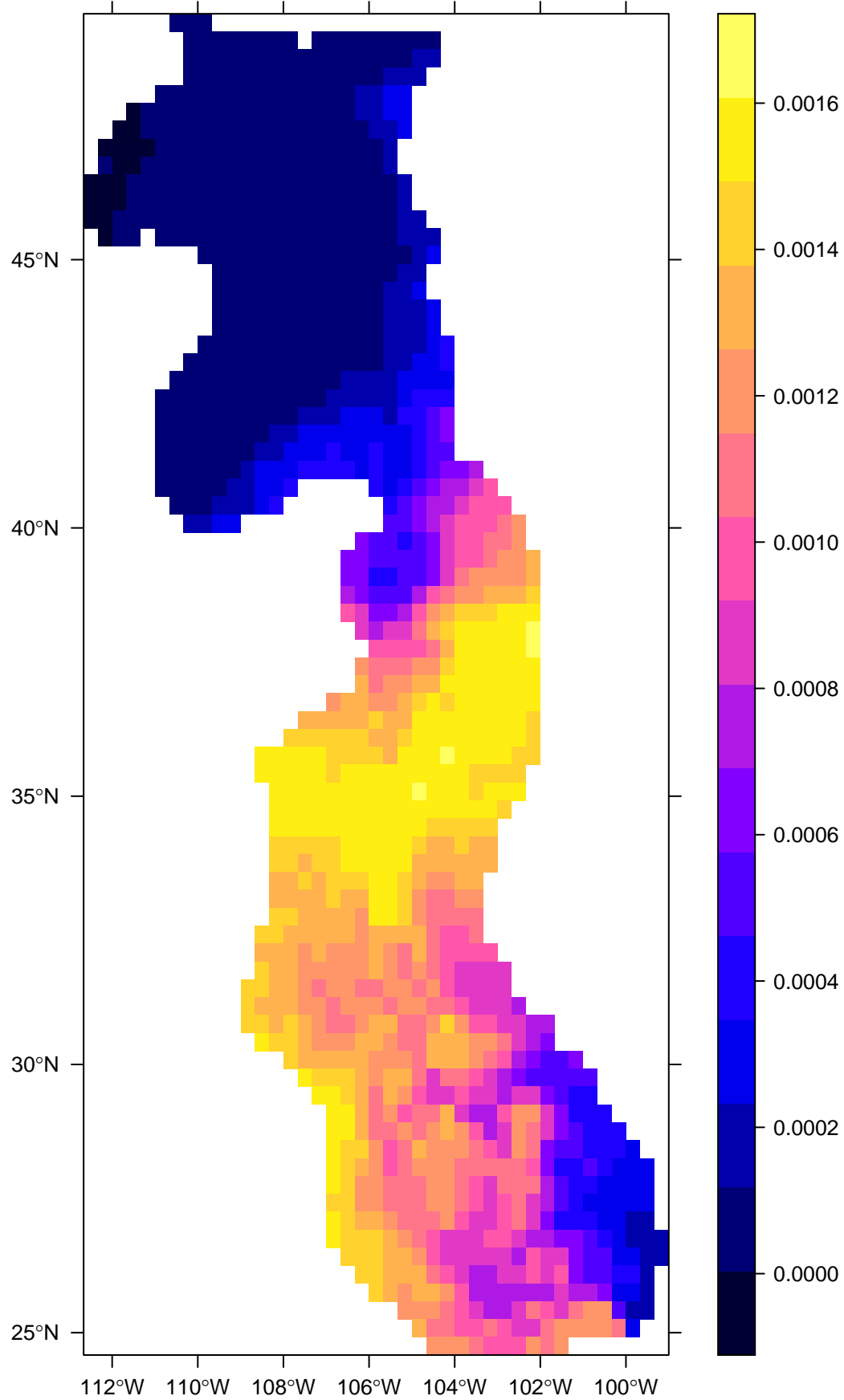
Probability Density Surface for adult_YR03_32



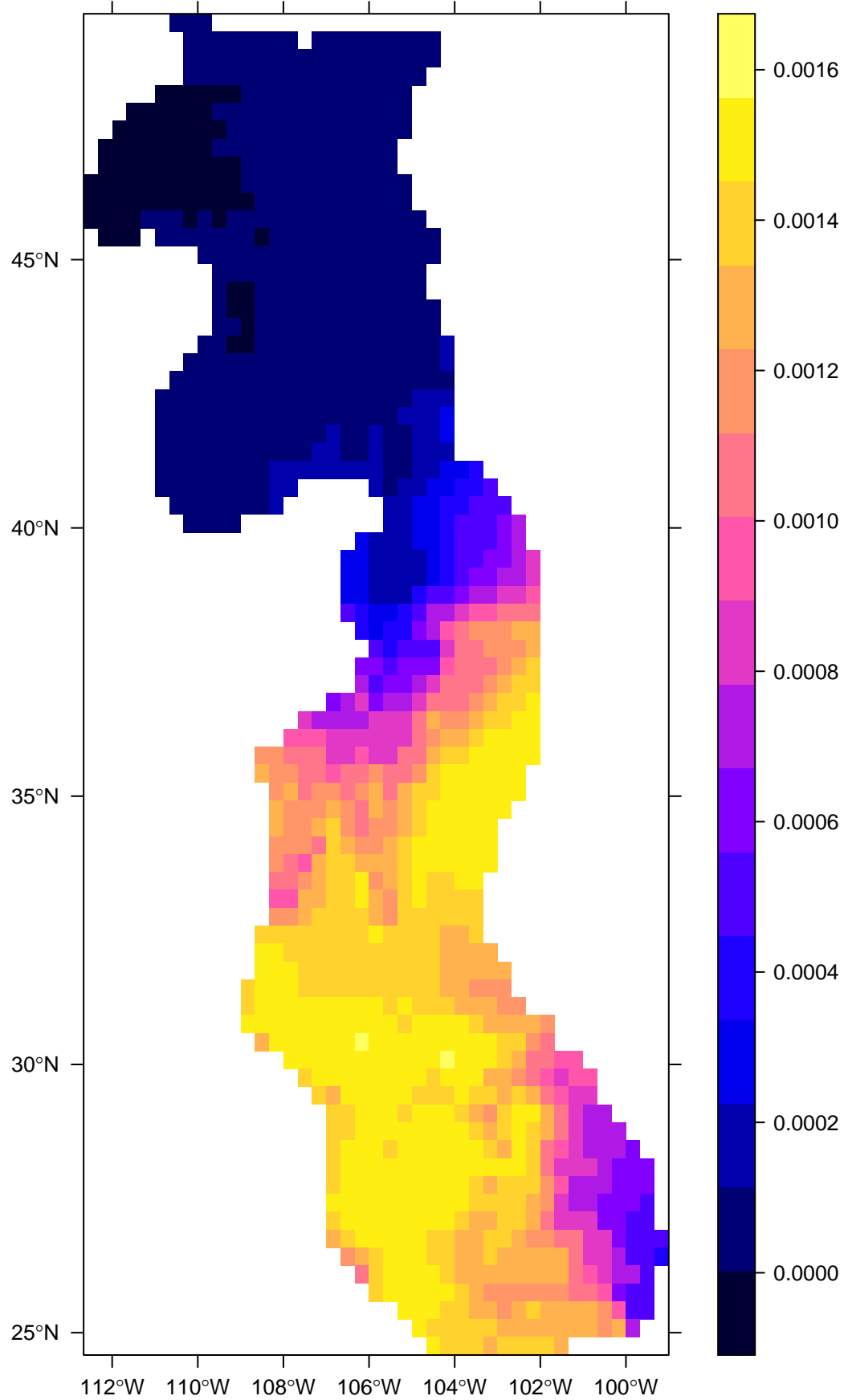
Probability Density Surface for adult_YR03_33



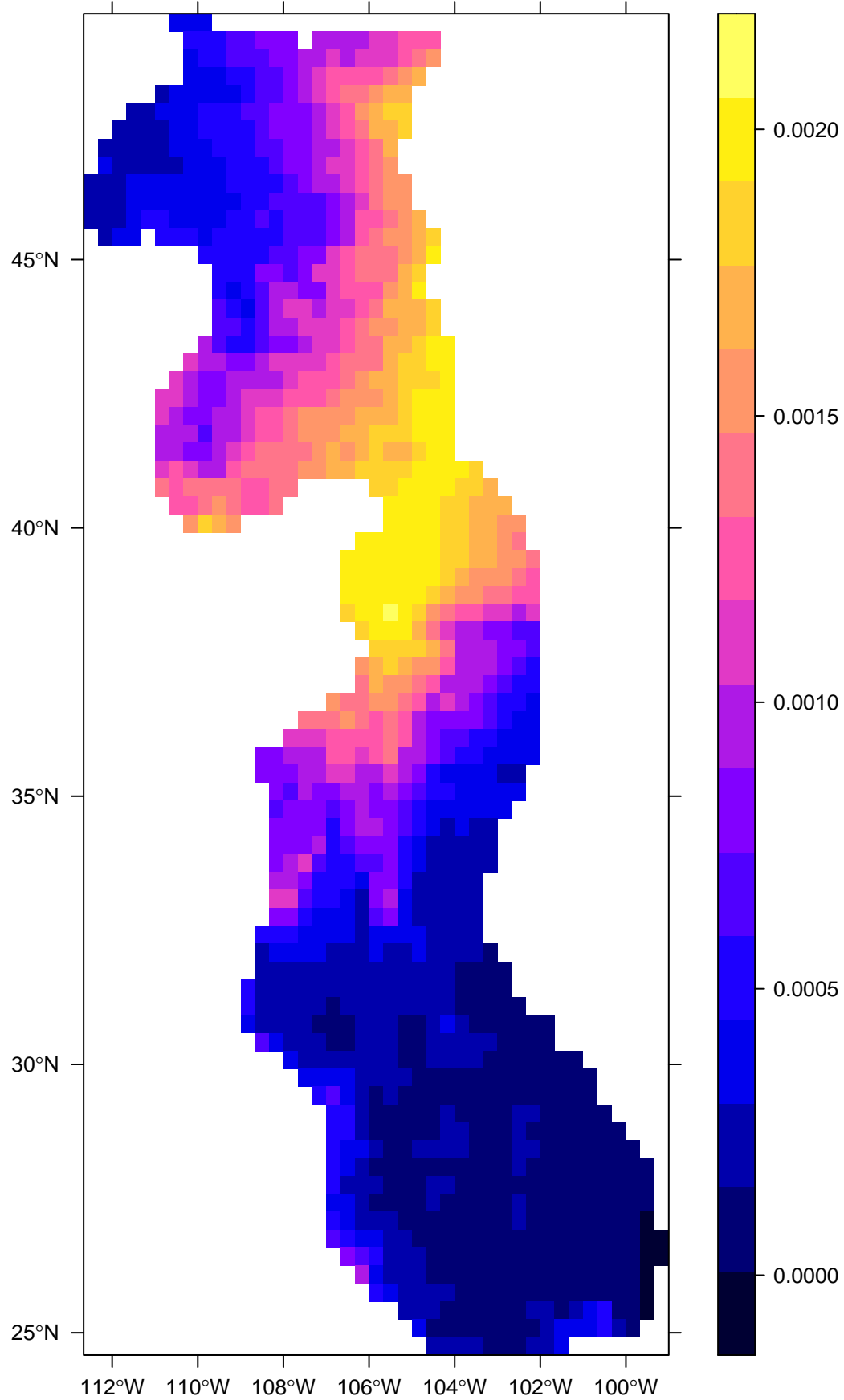
Probability Density Surface for adult_YR03_34



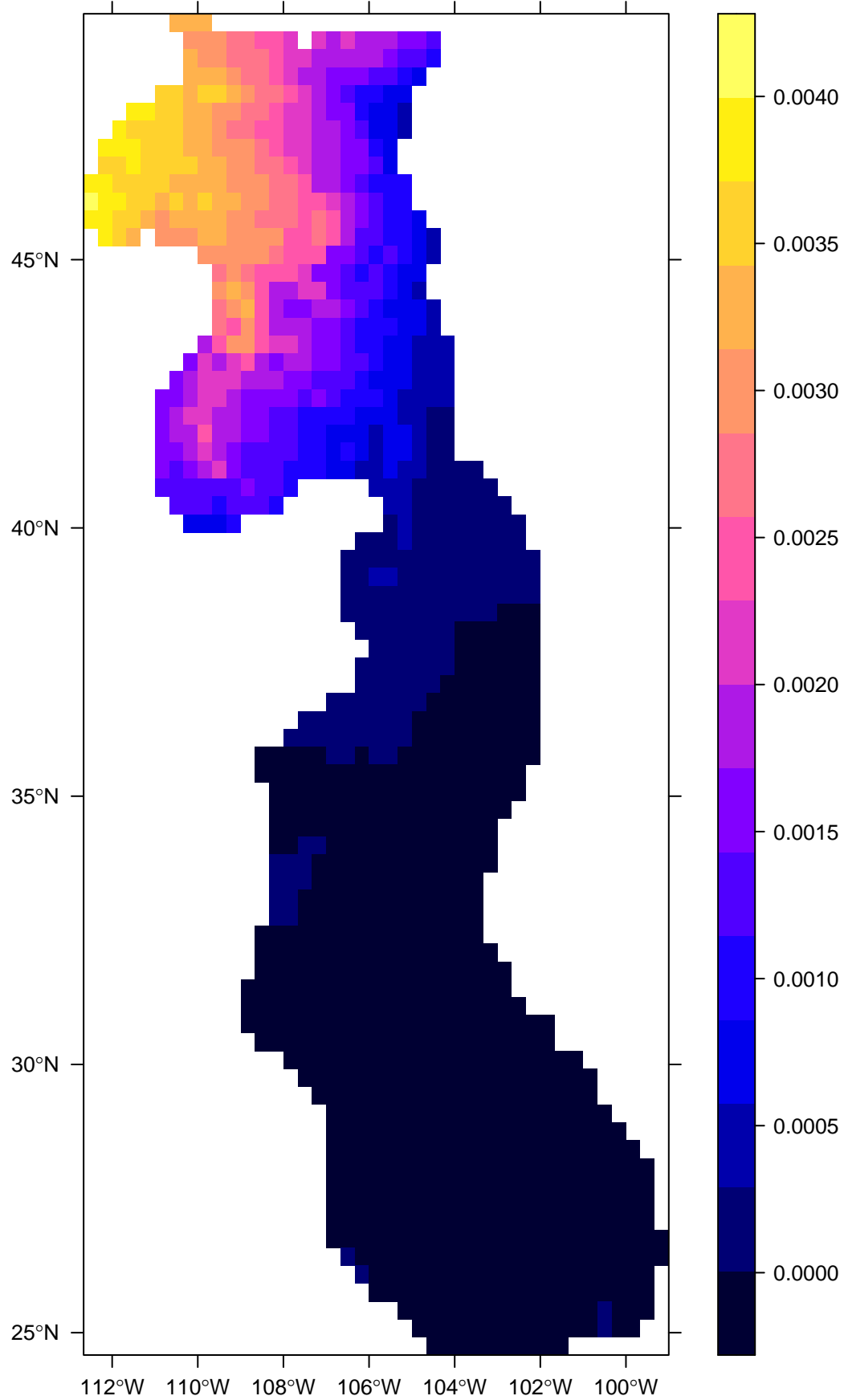
Probability Density Surface for adult_YR03_35



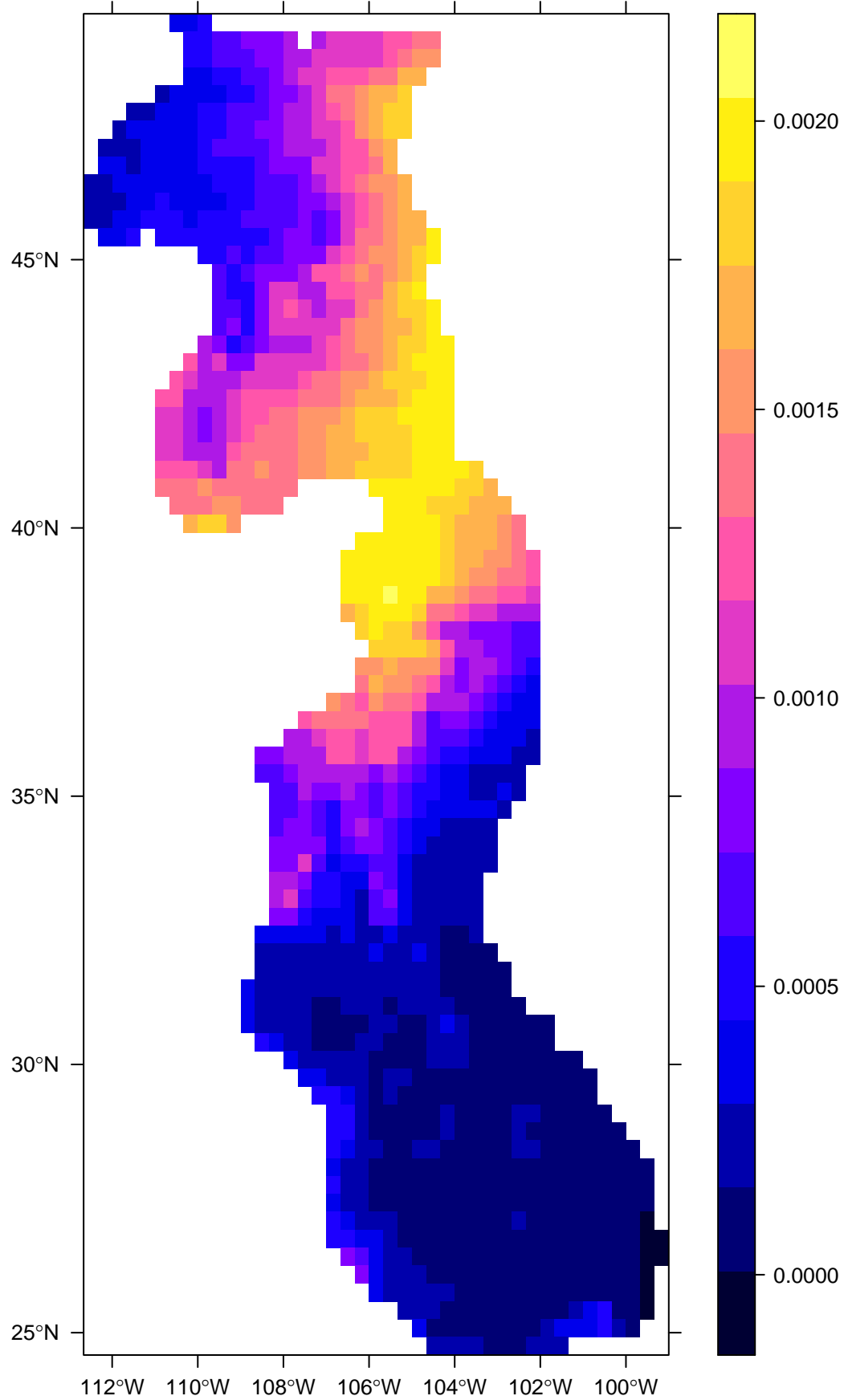
Probability Density Surface for adult_YR03_36



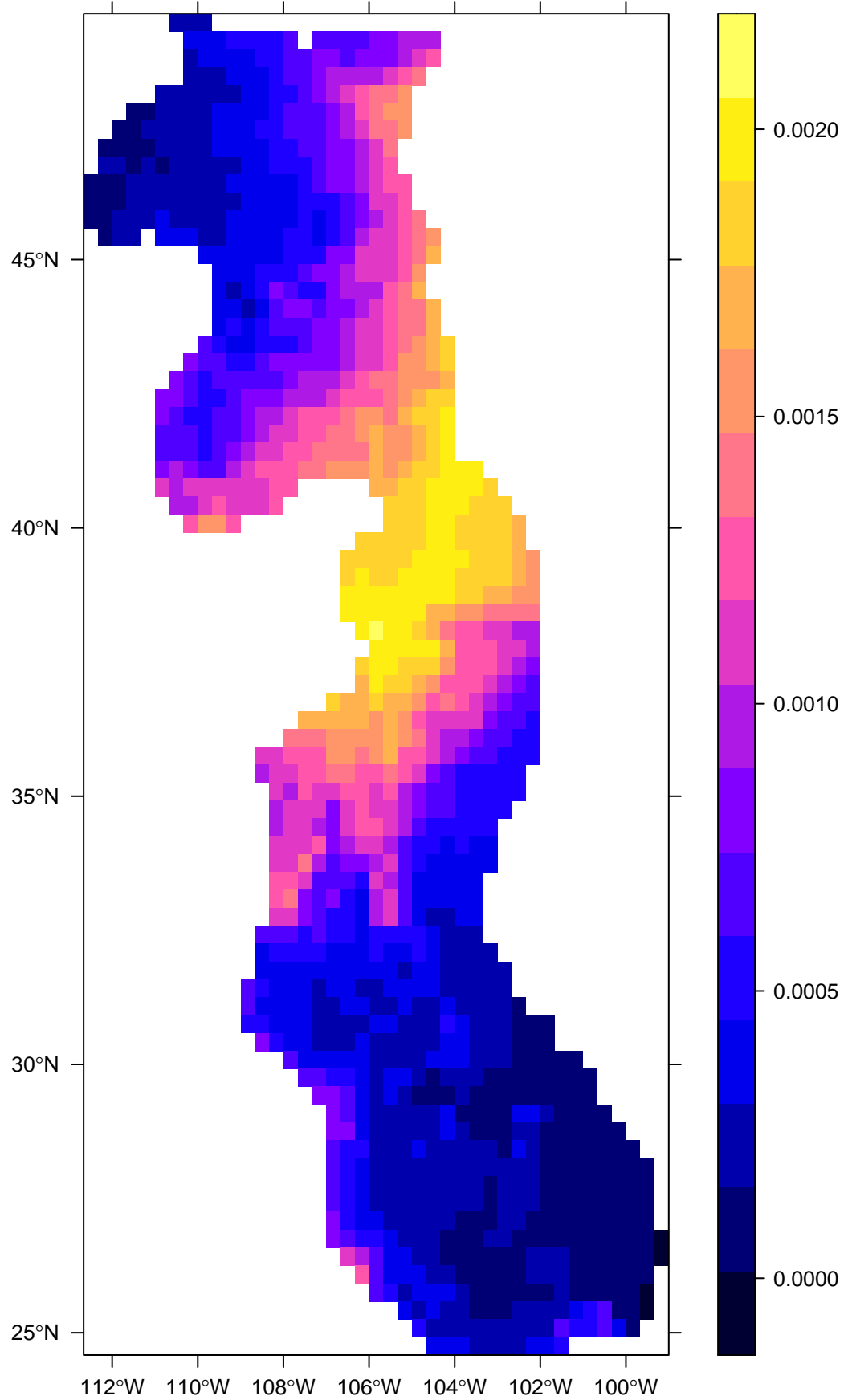
Probability Density Surface for adult_YR03_37



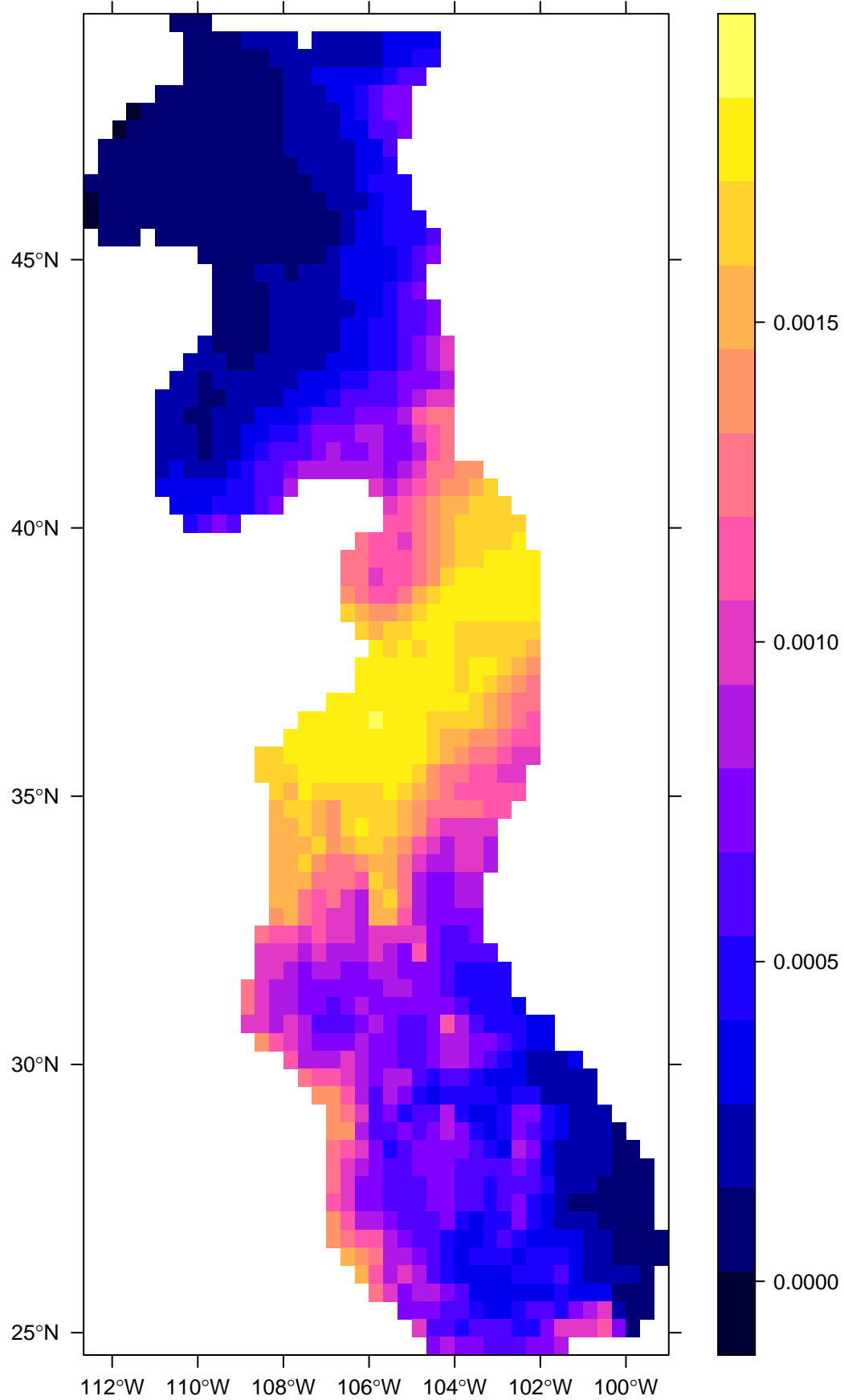
Probability Density Surface for adult_YR04_01



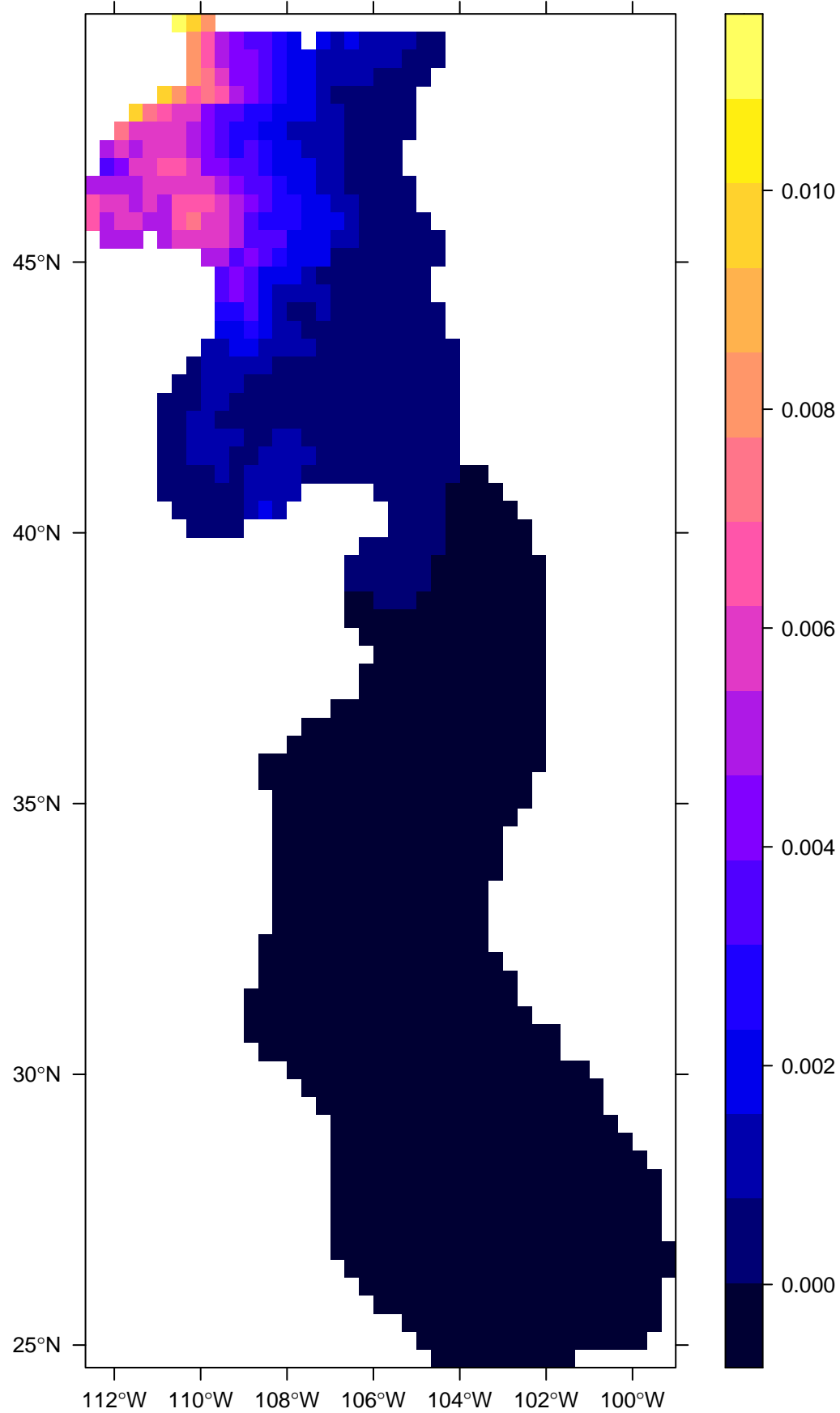
Probability Density Surface for adult_YR04_02



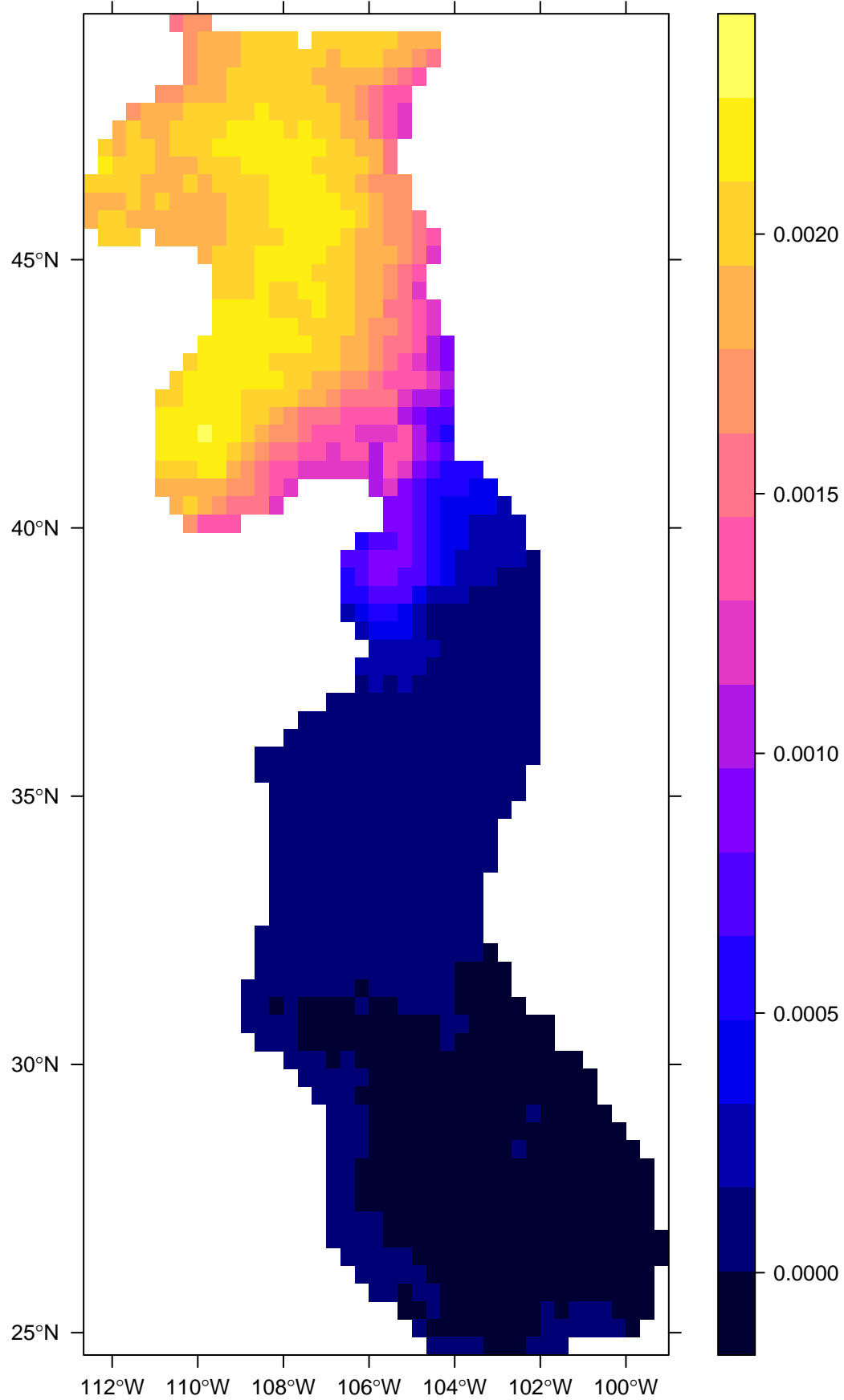
Probability Density Surface for adult_YR04_03



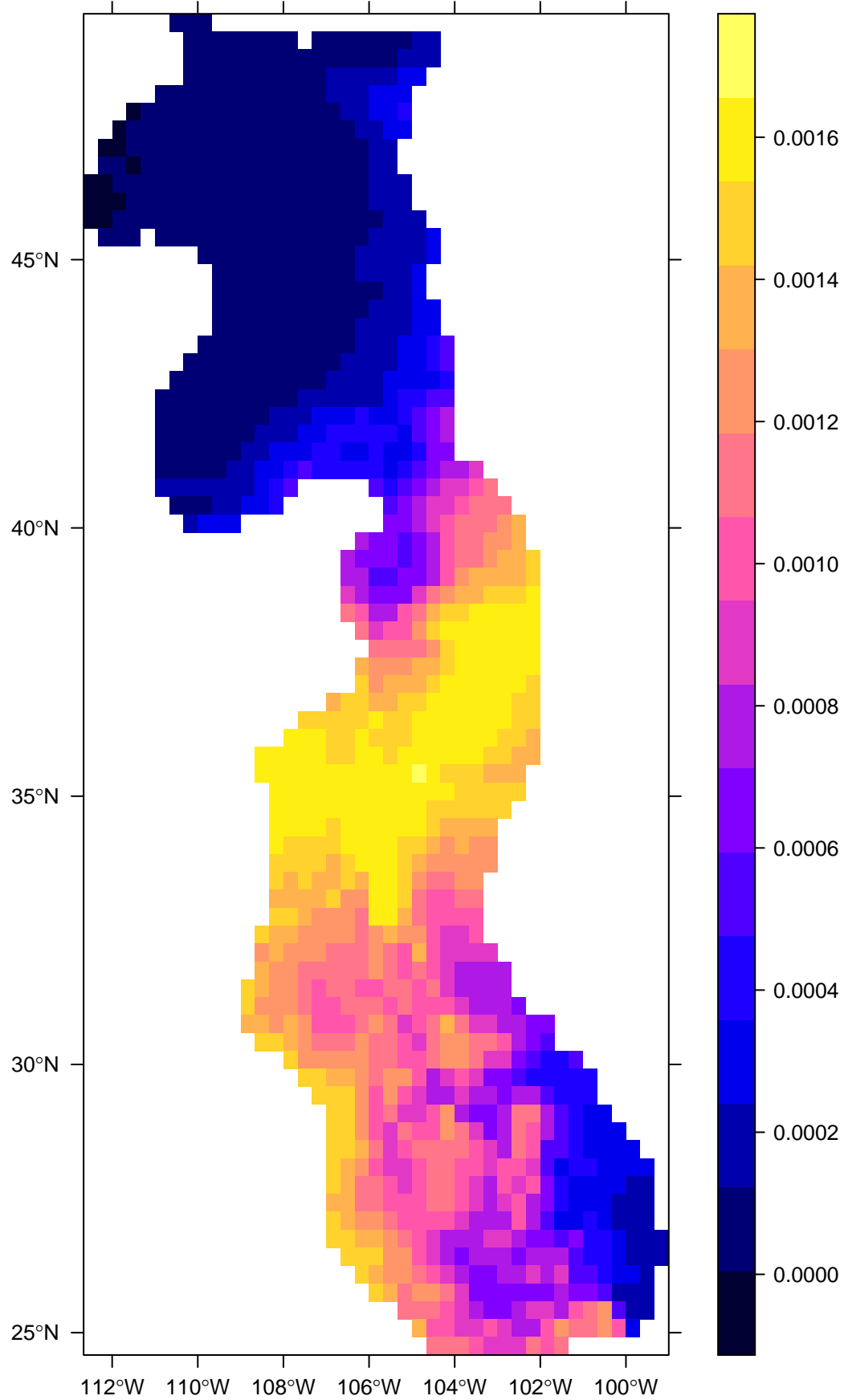
Probability Density Surface for adult_YR04_04



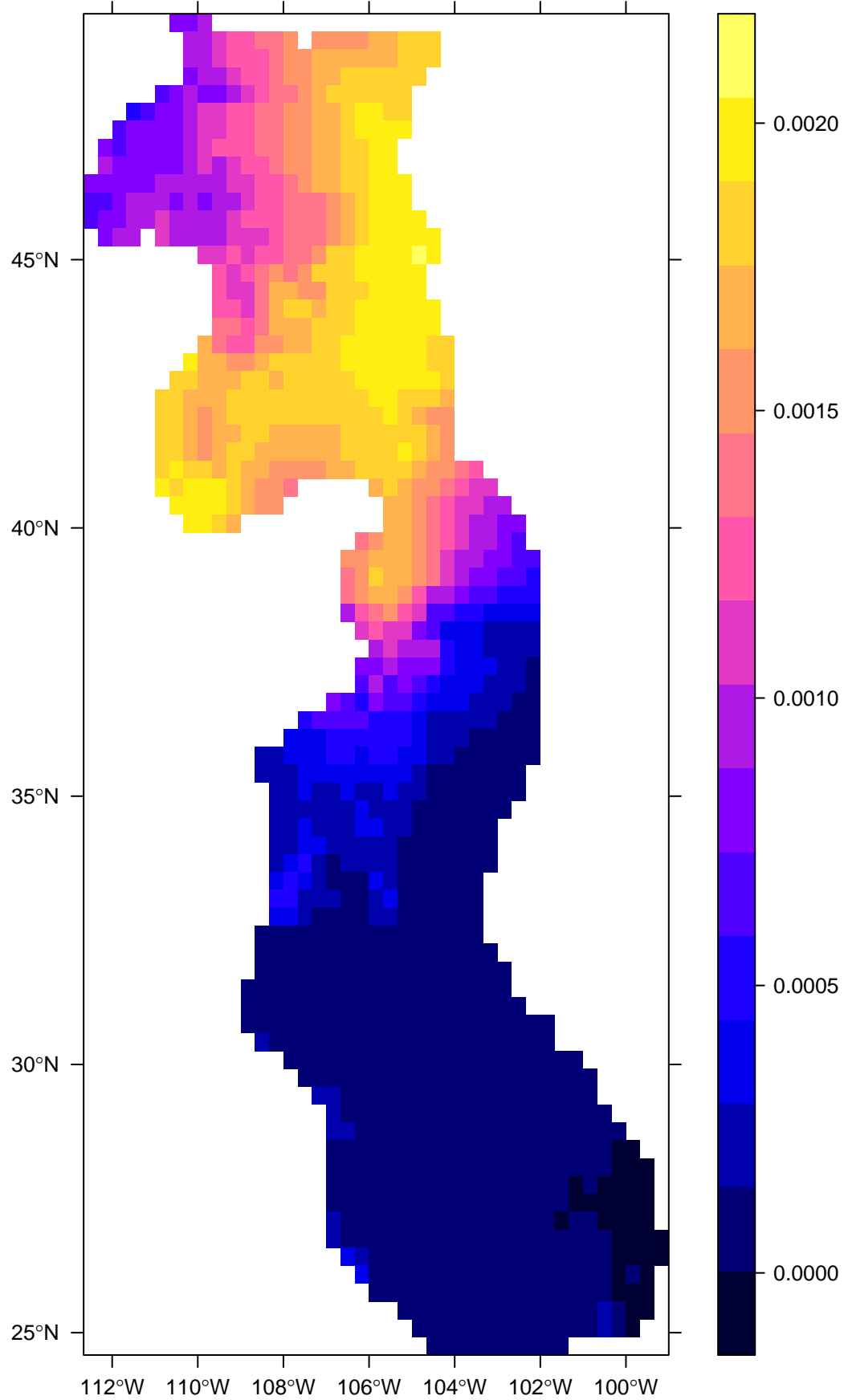
Probability Density Surface for adult_YR04_05



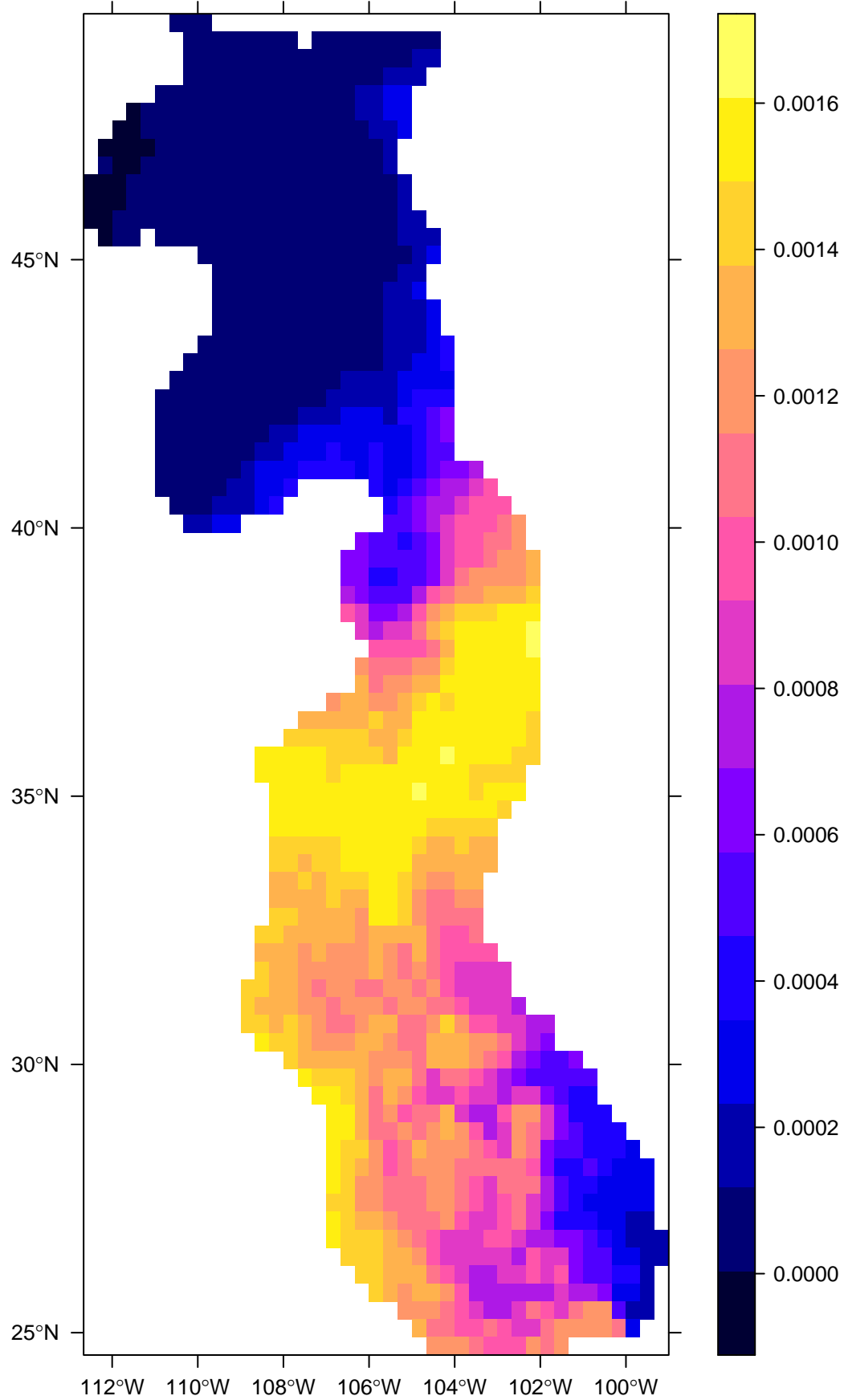
Probability Density Surface for adult_YR04_06



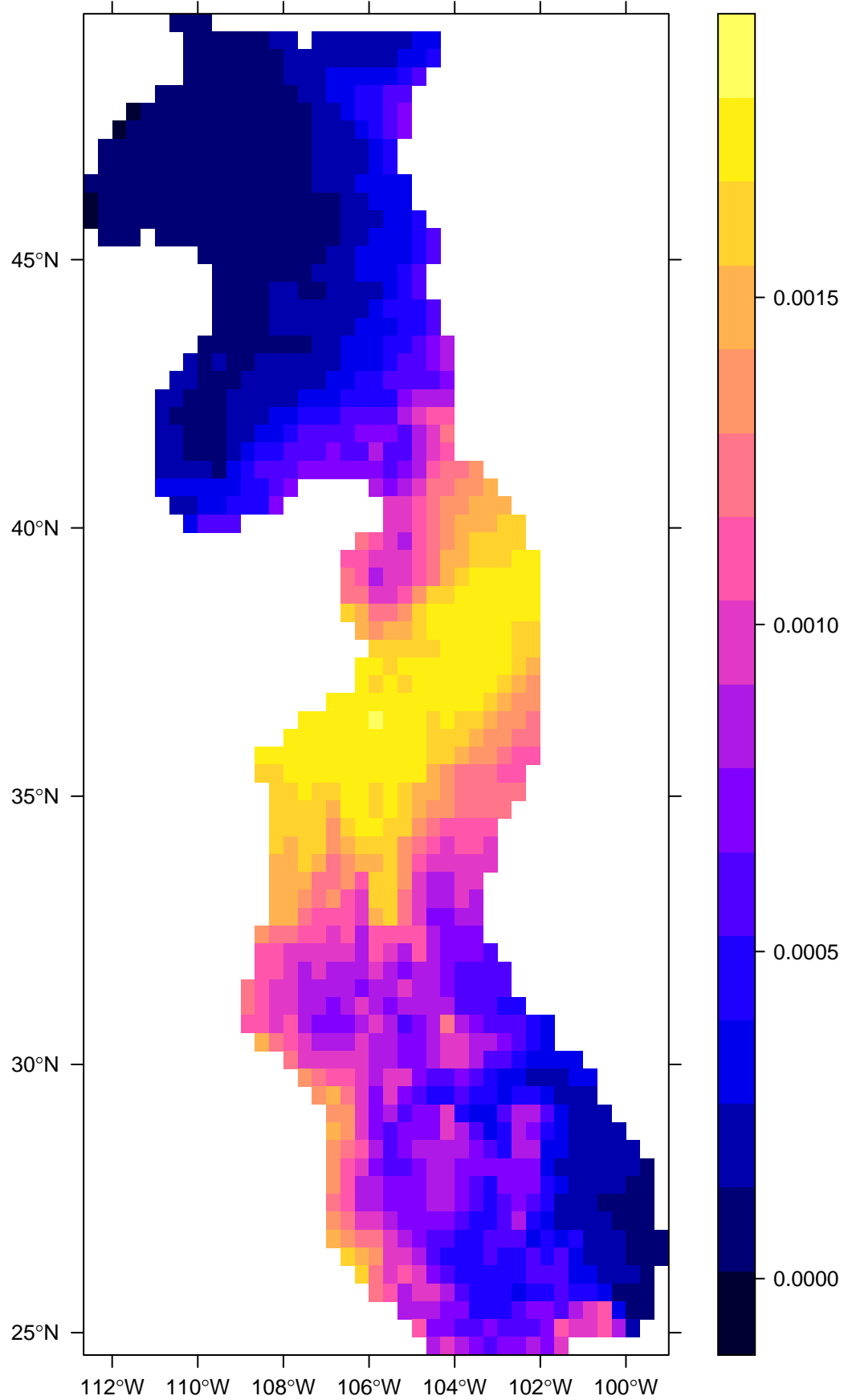
Probability Density Surface for adult_YR04_07



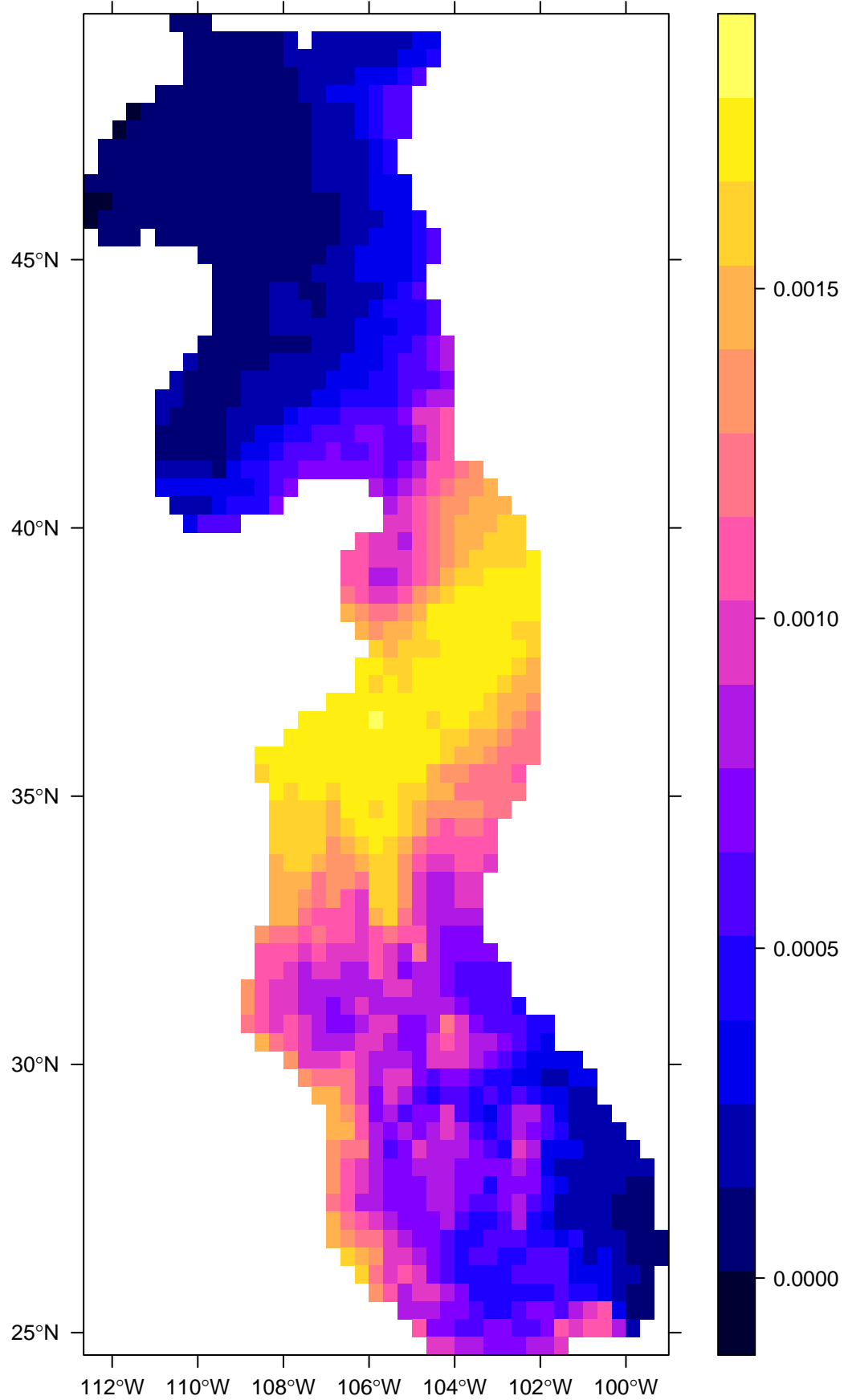
Probability Density Surface for adult_YR04_08



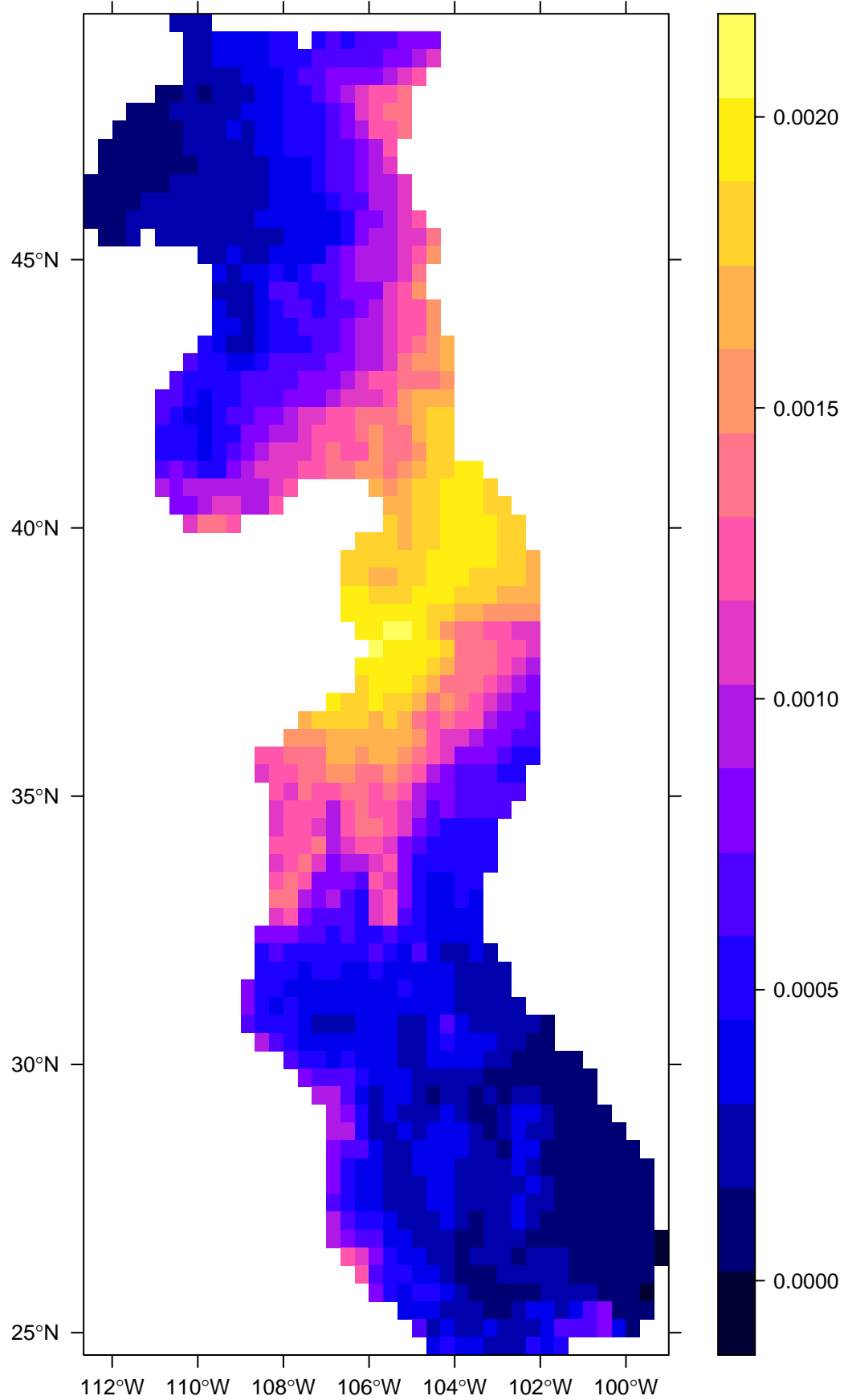
Probability Density Surface for adult_YR04_09



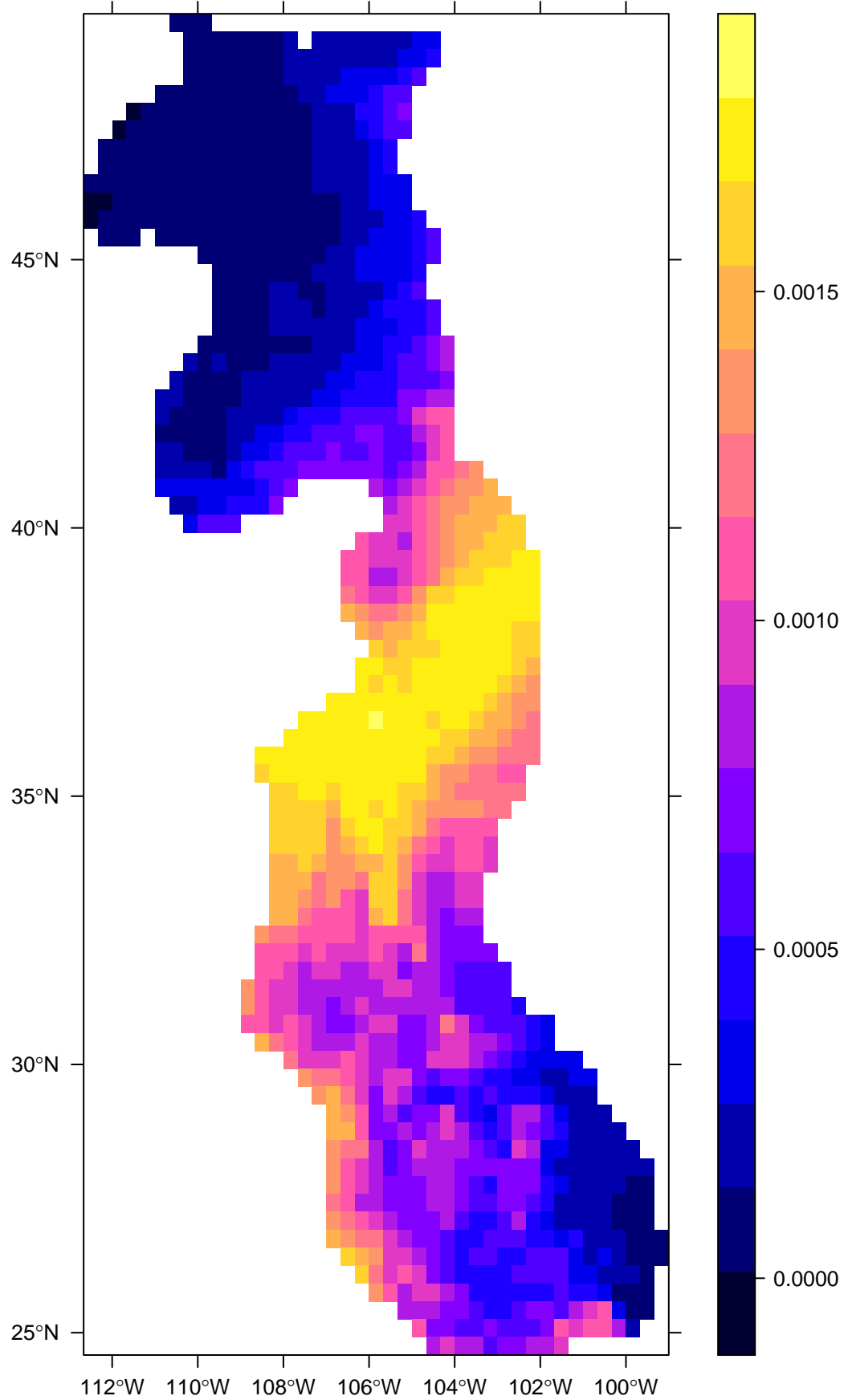
Probability Density Surface for adult_YR04_10



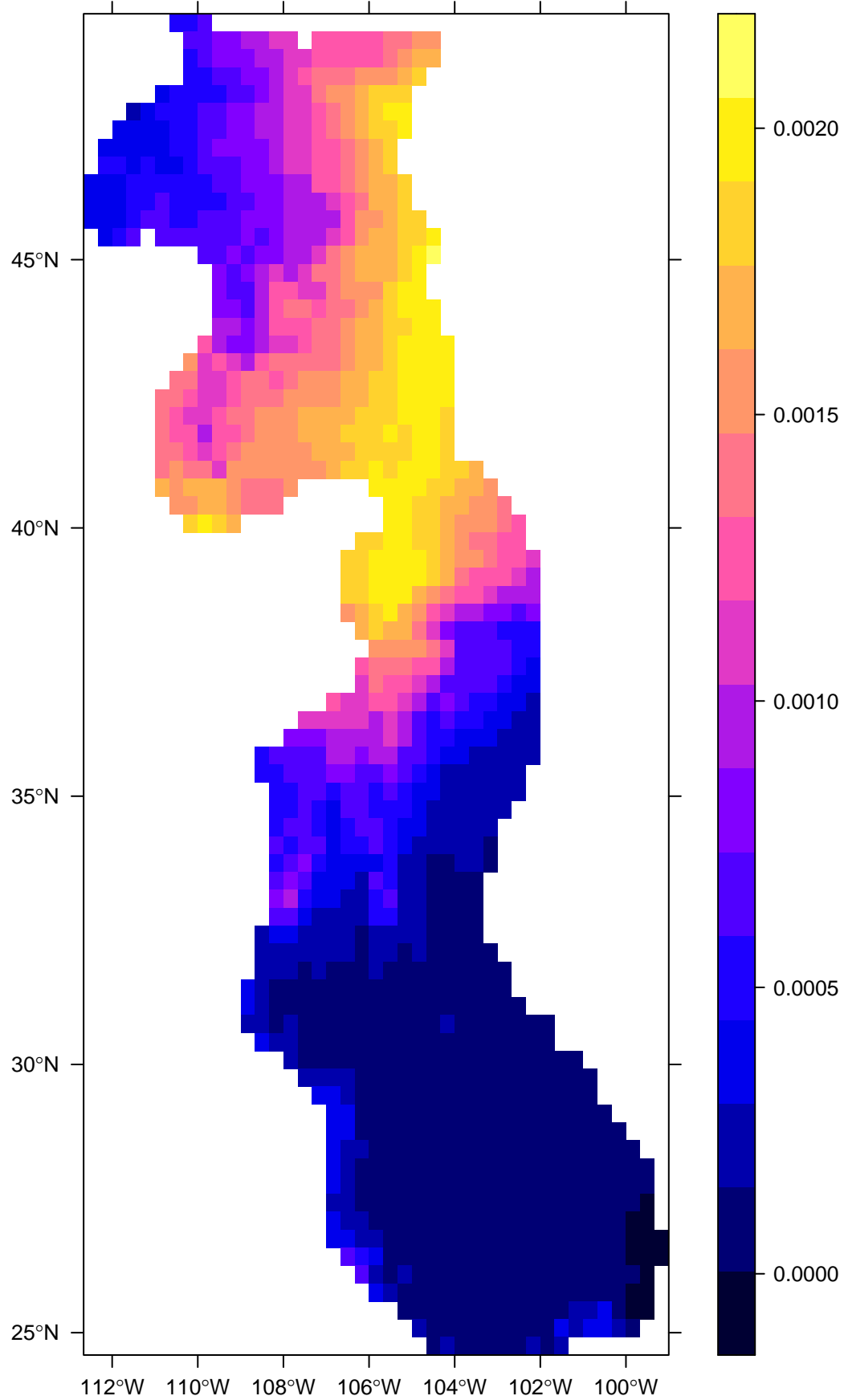
Probability Density Surface for adult_YR04_11



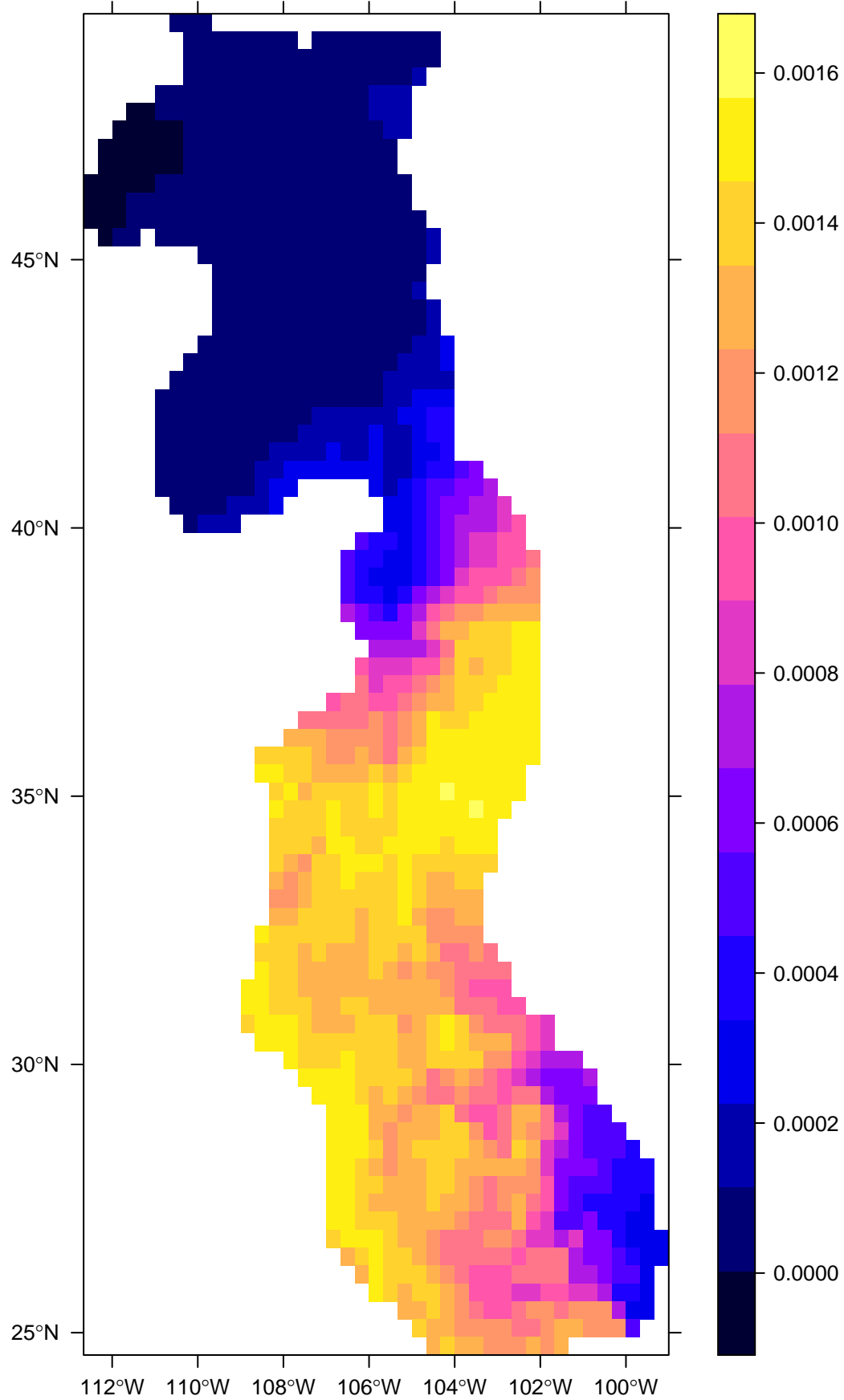
Probability Density Surface for adult_YR04_12



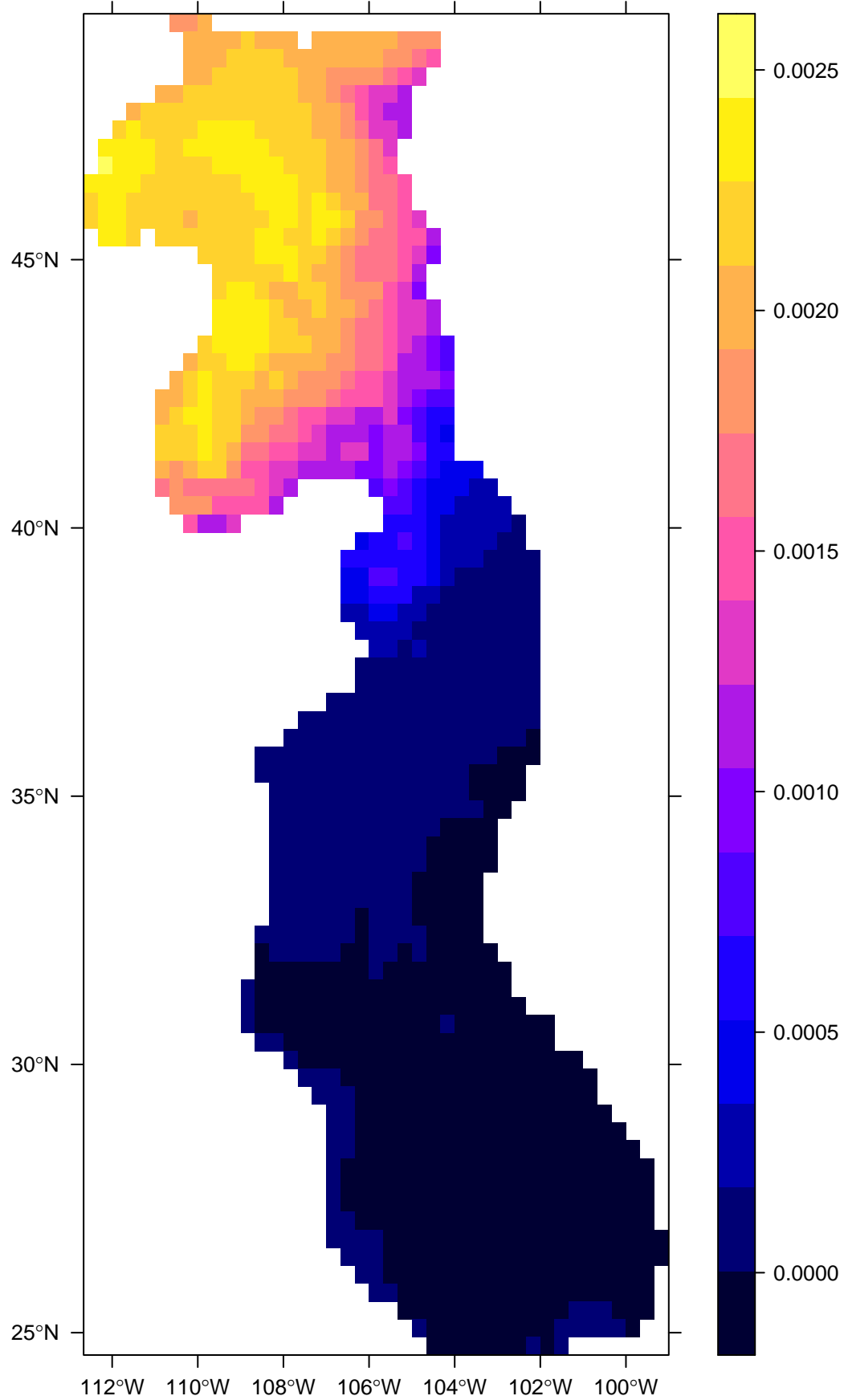
Probability Density Surface for adult_YR04_13



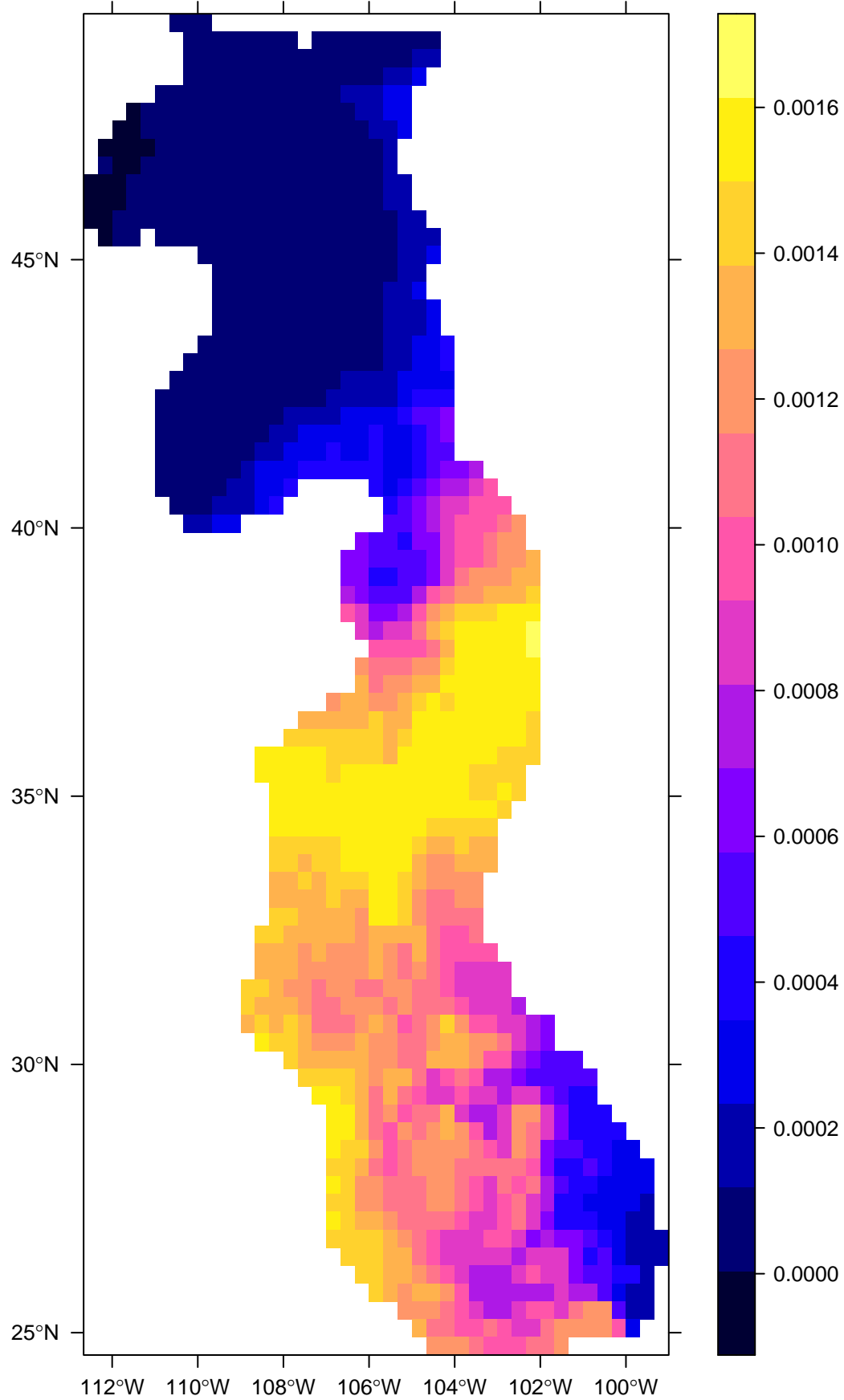
Probability Density Surface for adult_YR04_14



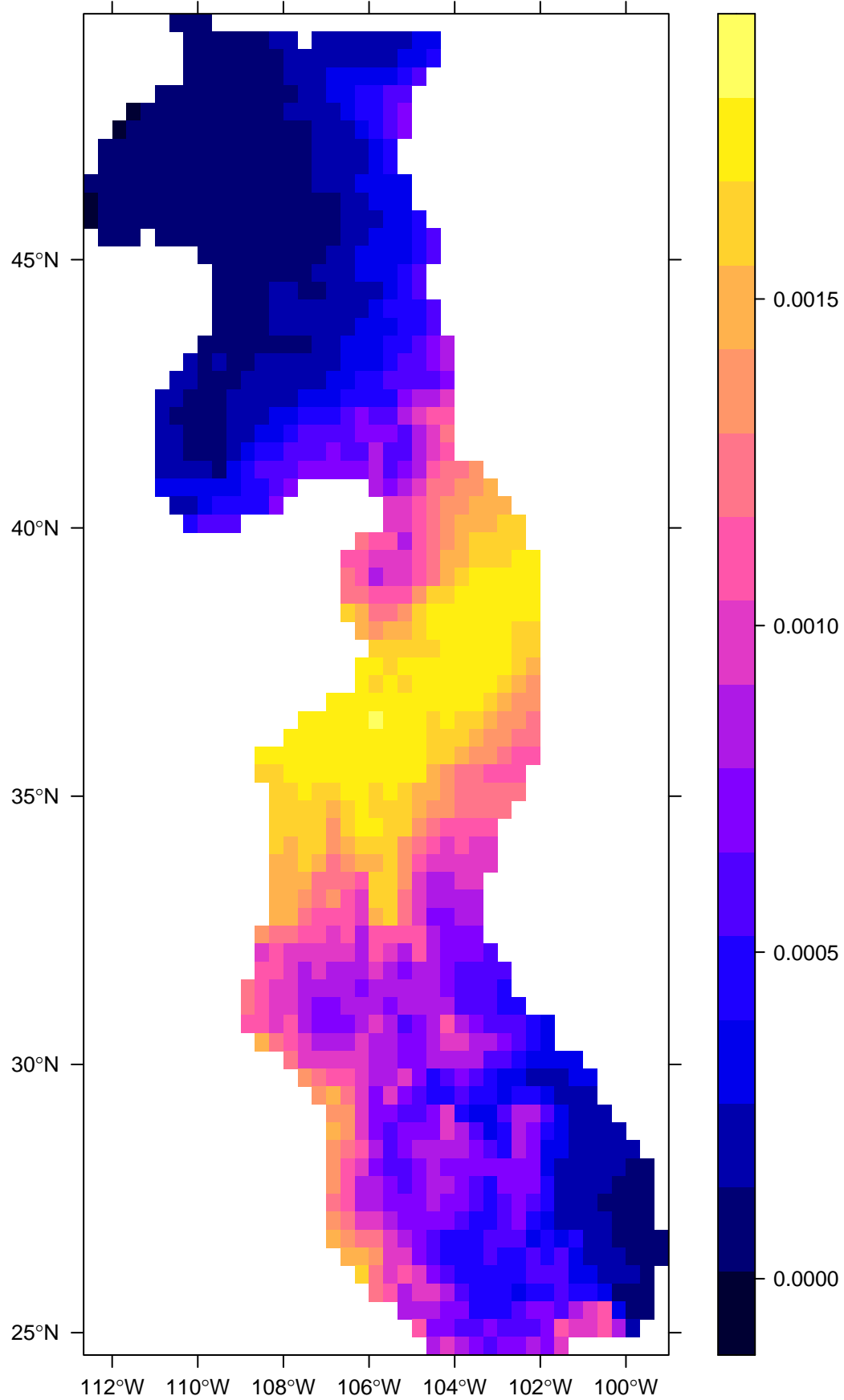
Probability Density Surface for adult_YR04_15



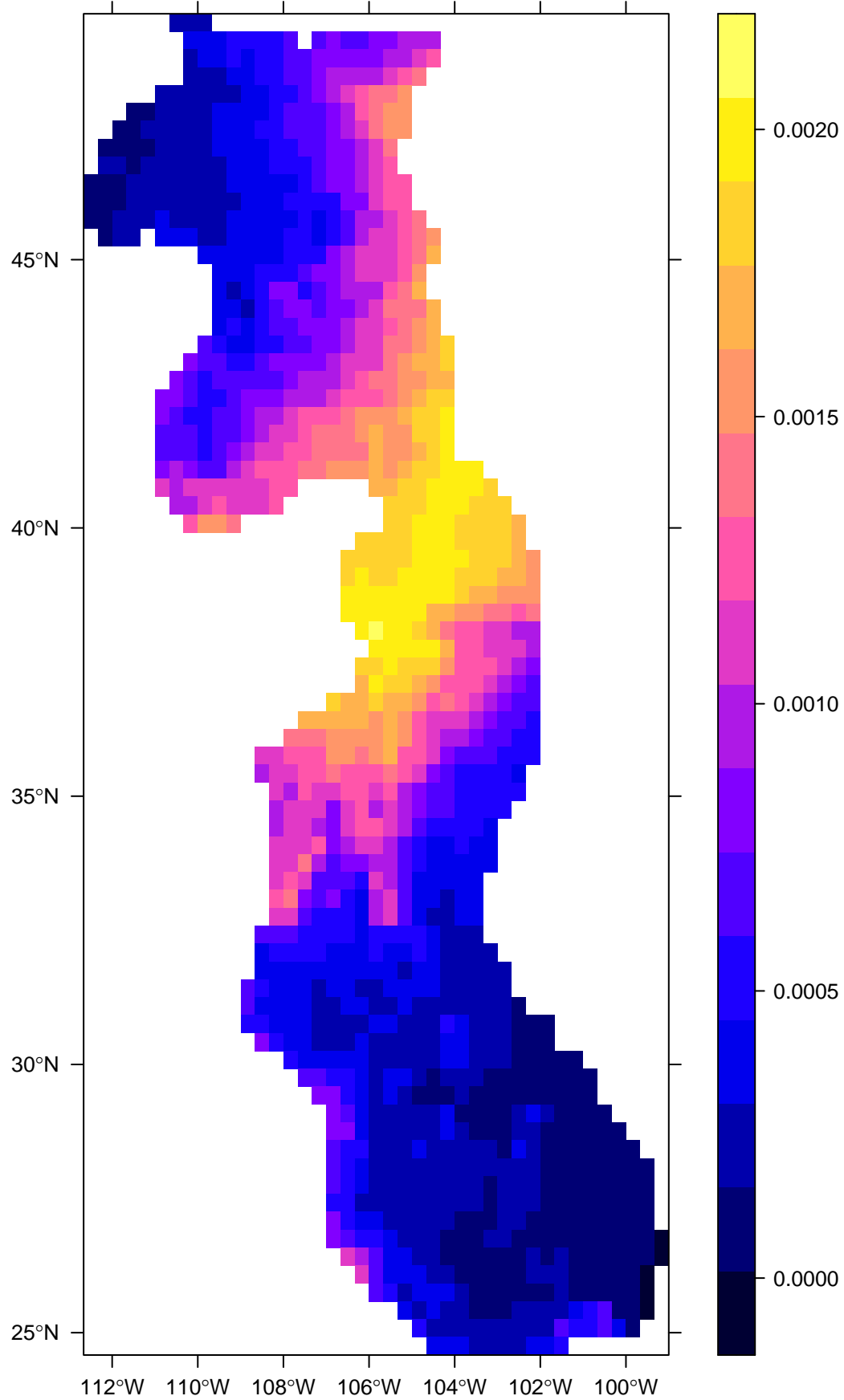
Probability Density Surface for adult_YR04_16



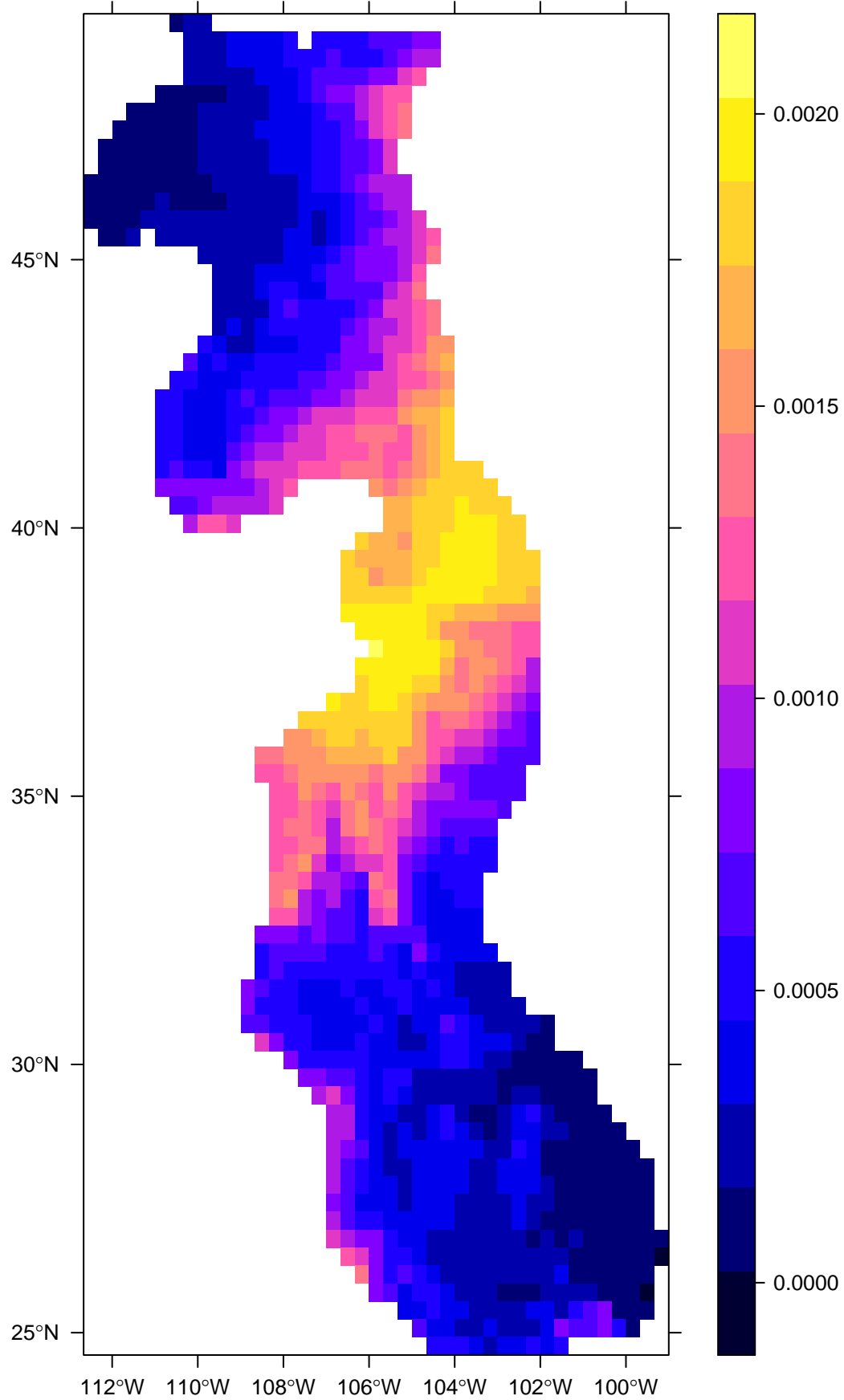
Probability Density Surface for adult_YR04_17



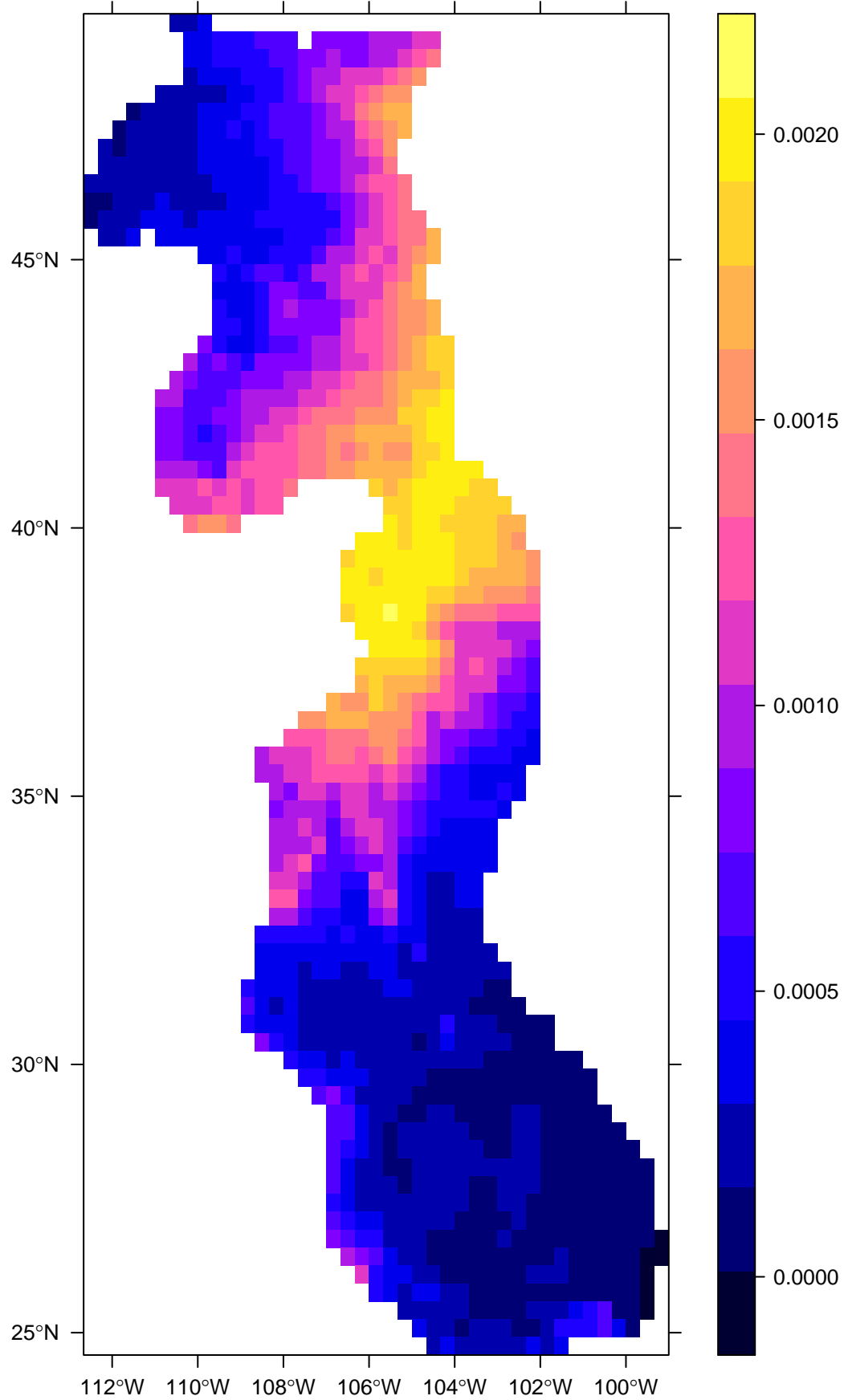
Probability Density Surface for adult_YR04_18



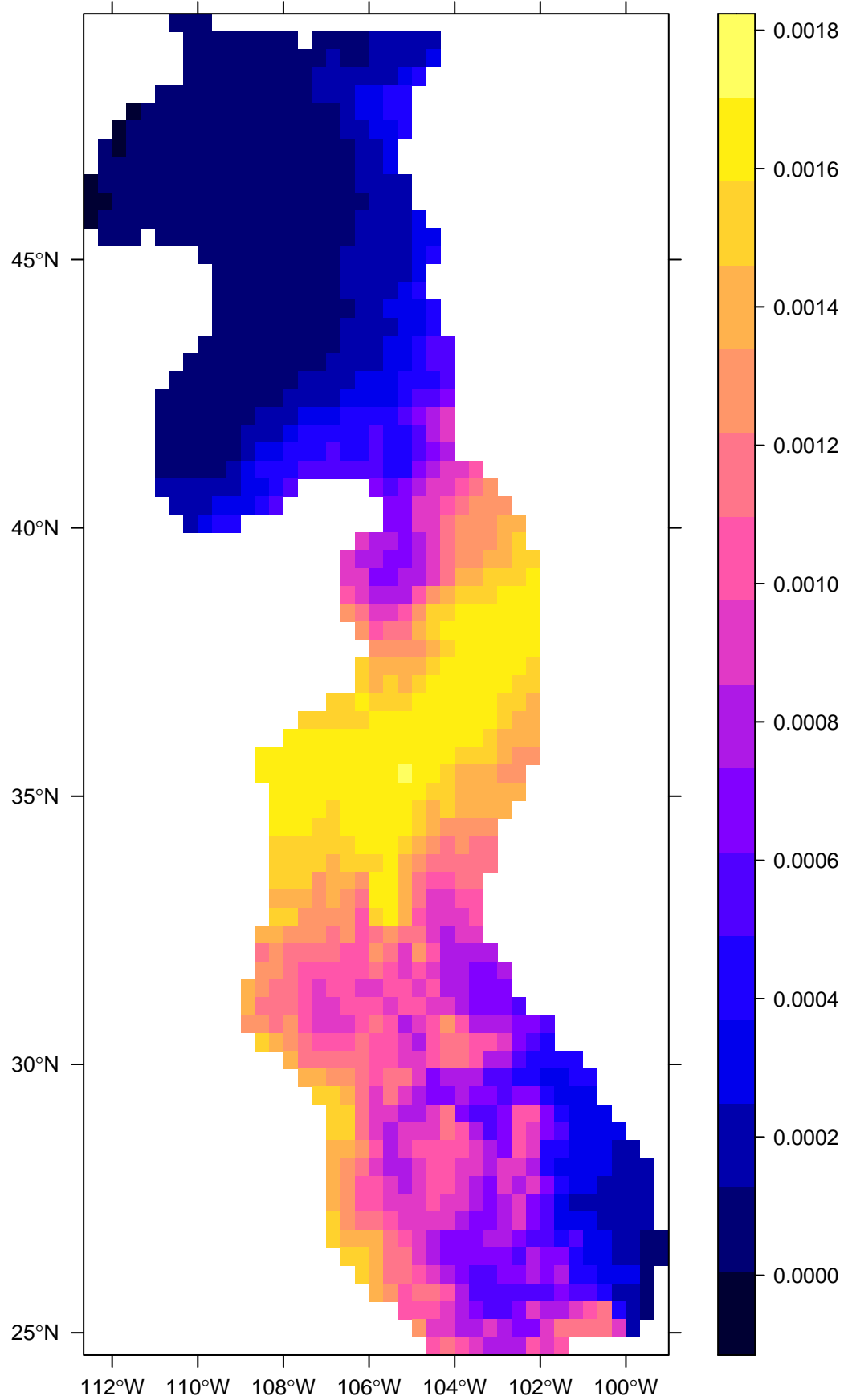
Probability Density Surface for adult_YR04_19



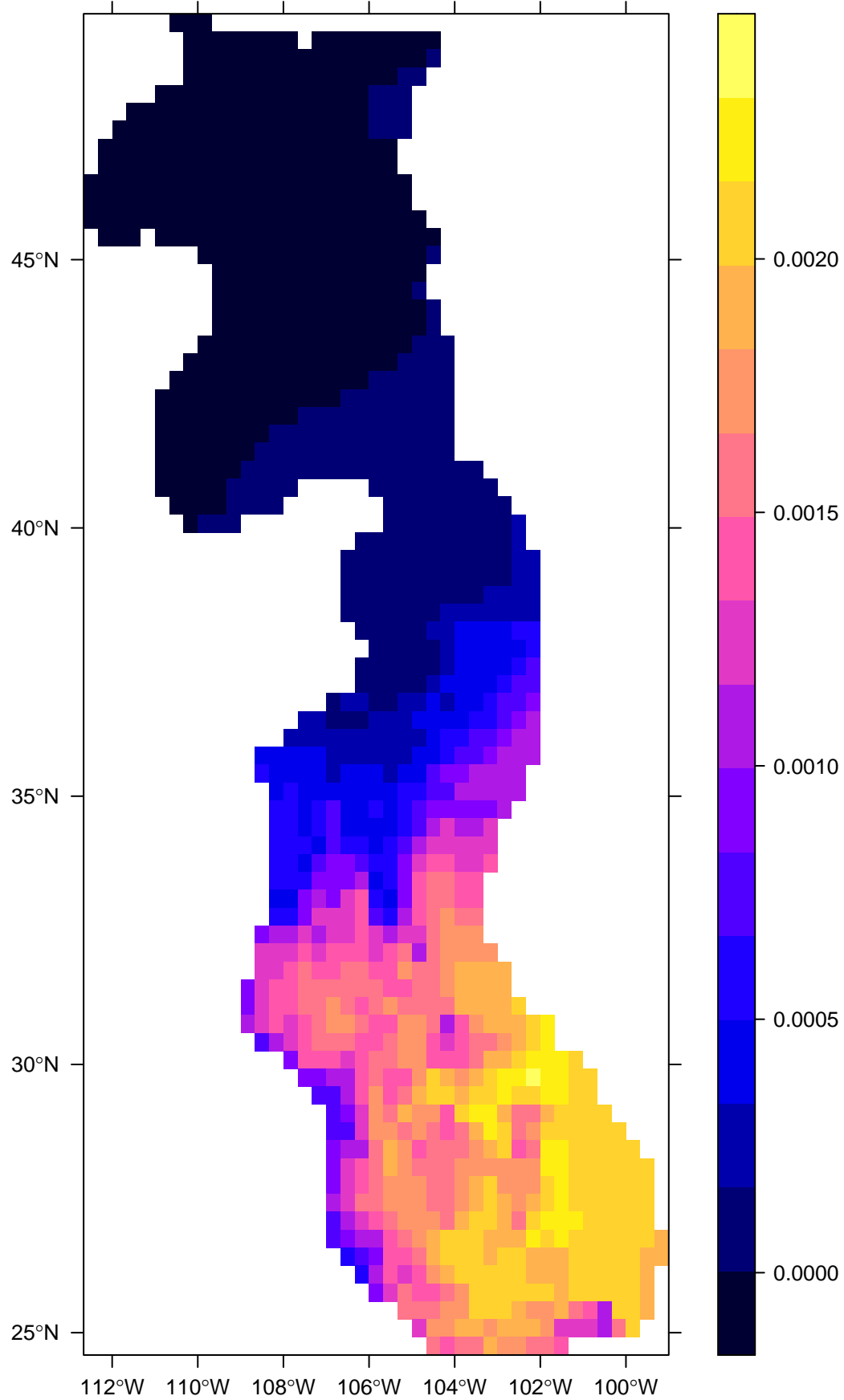
Probability Density Surface for adult_YR04_20



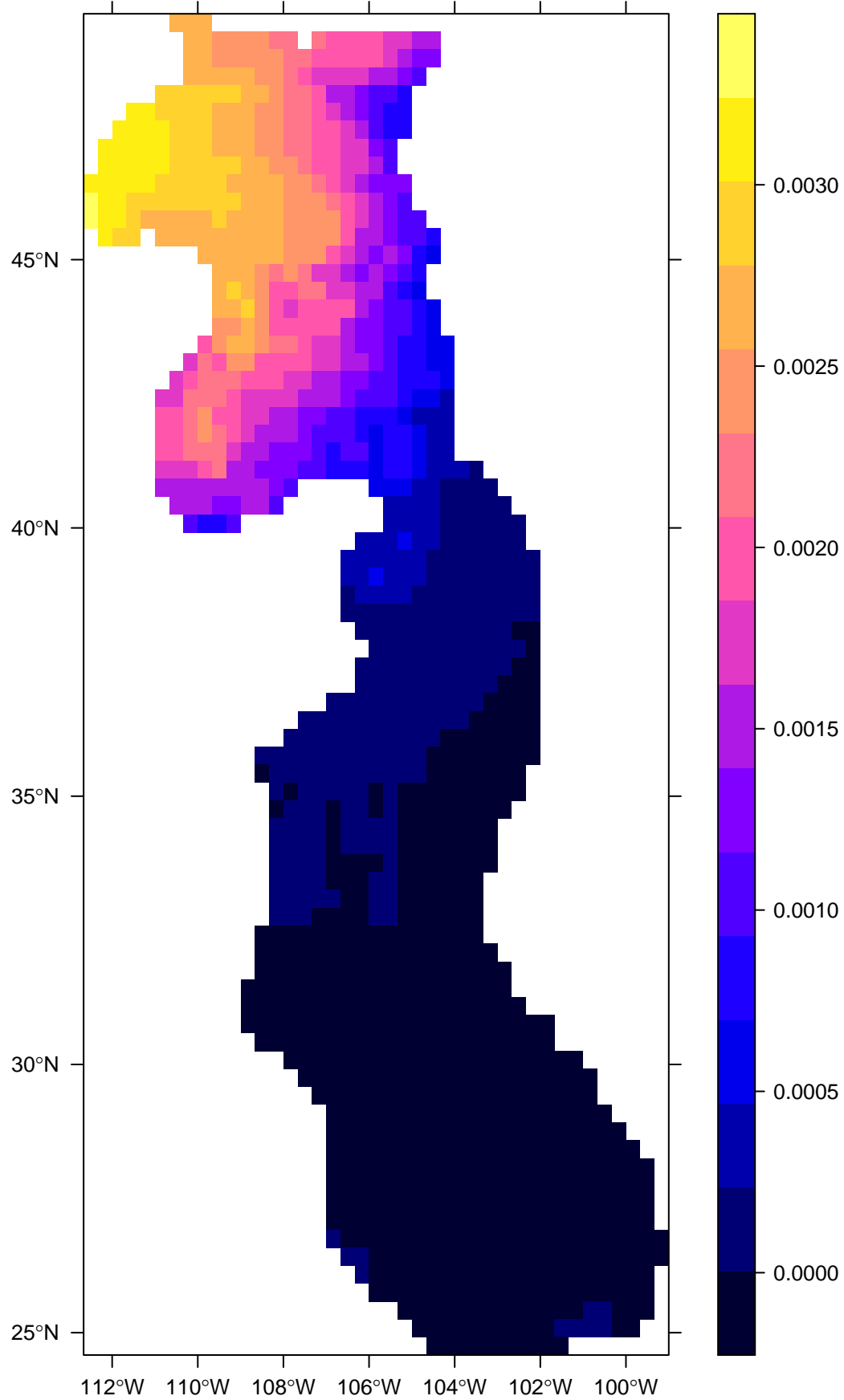
Probability Density Surface for adult_YR04_21



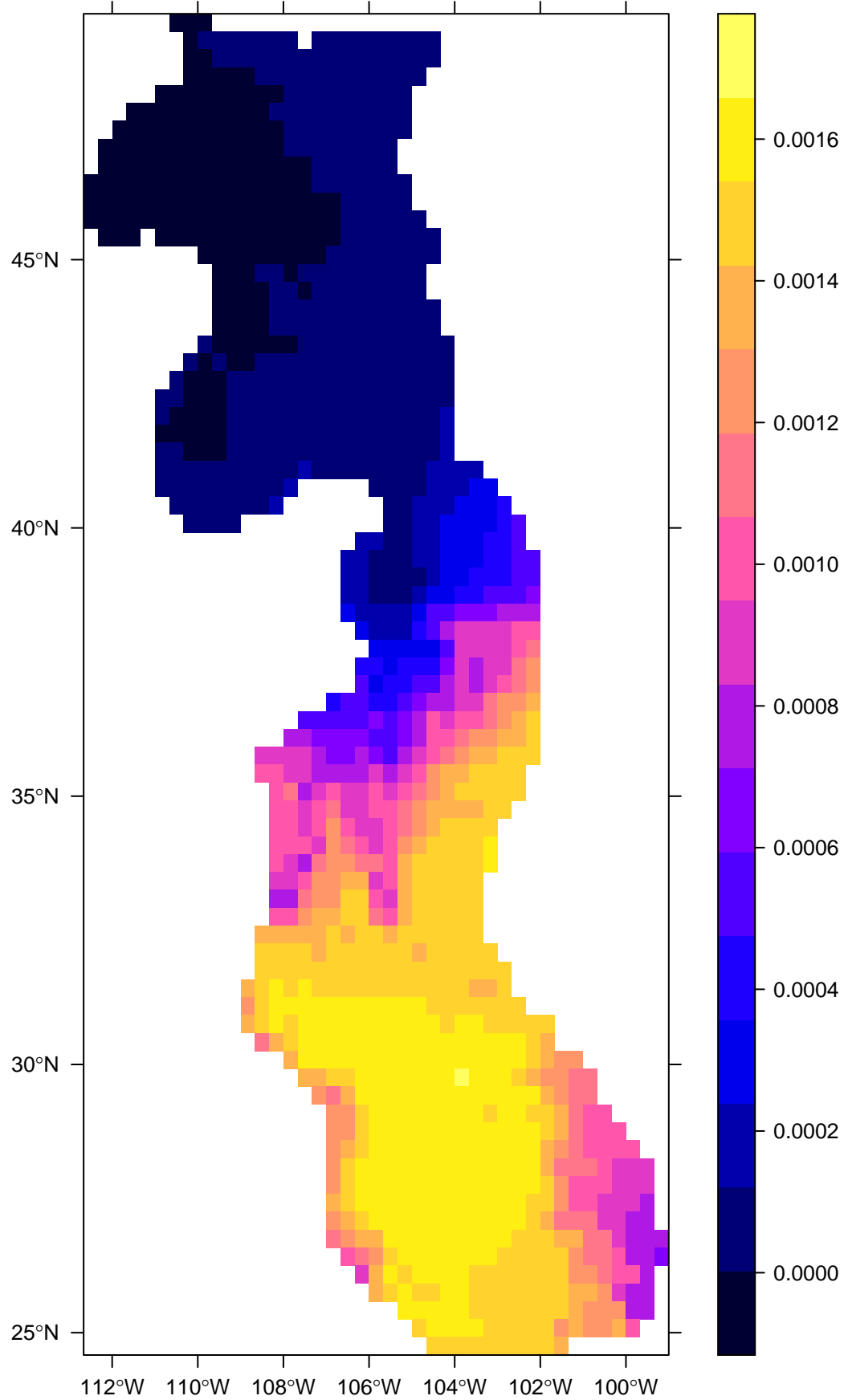
Probability Density Surface for juv_YR01_01



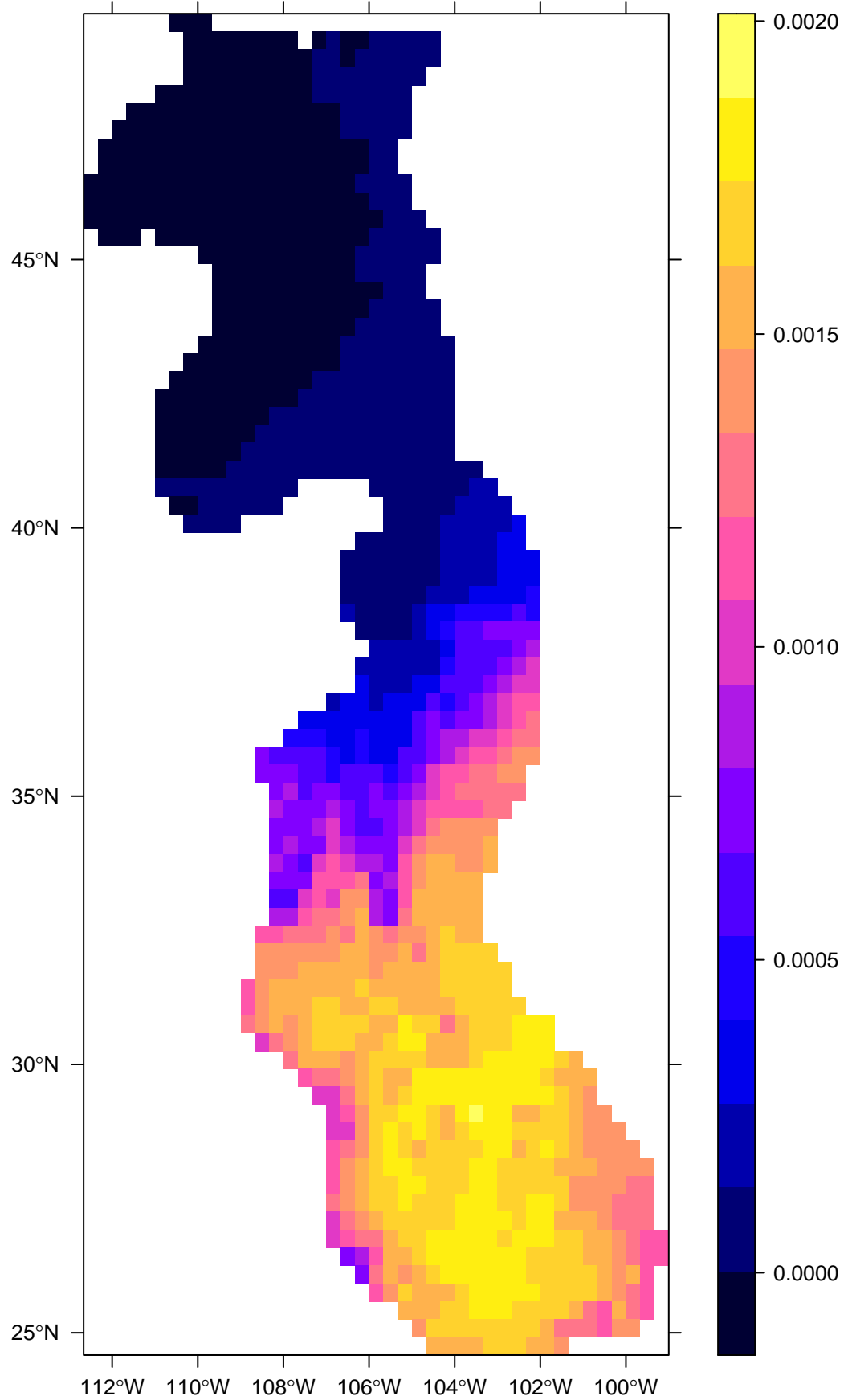
Probability Density Surface for juv_YR01_02



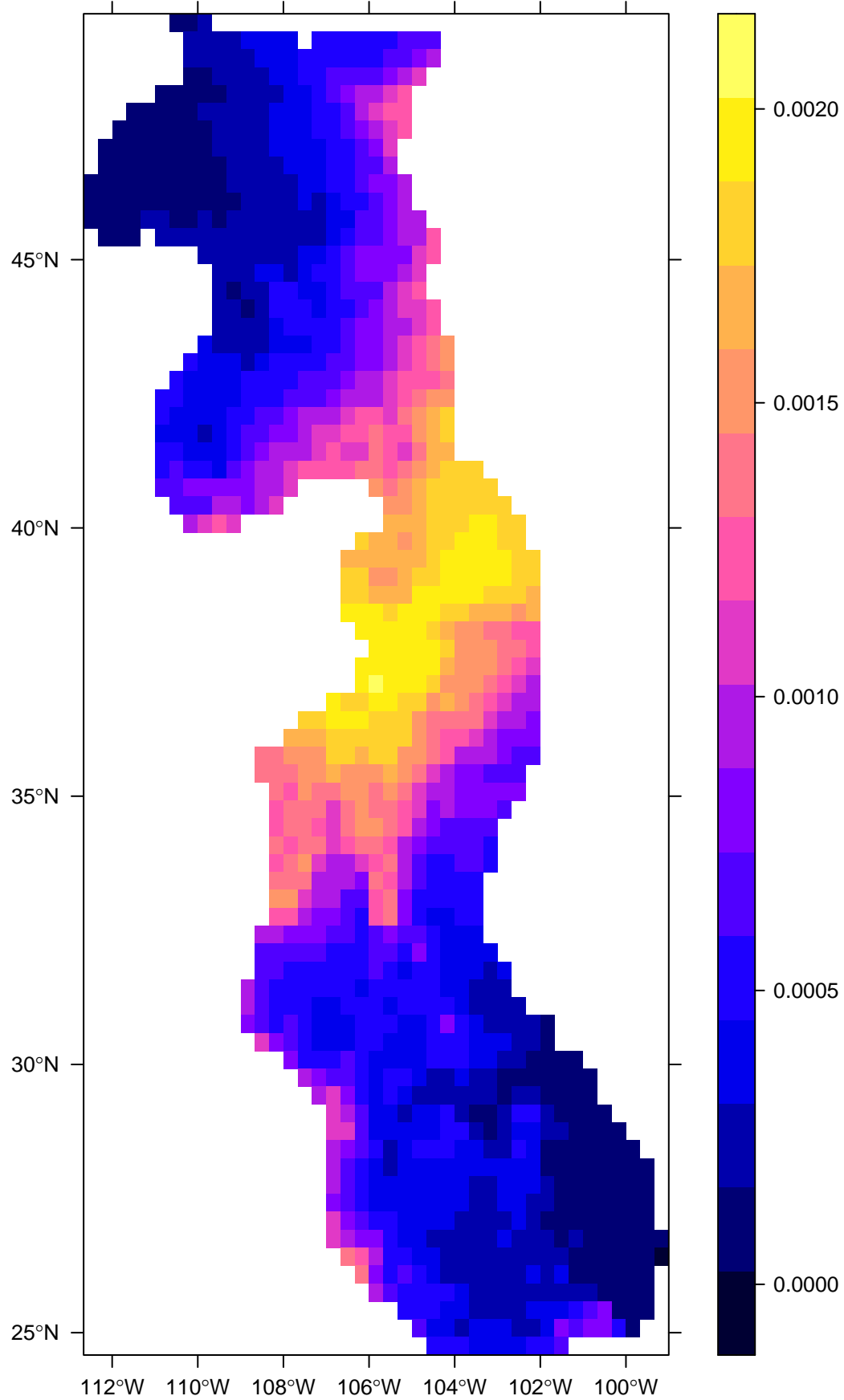
Probability Density Surface for juv_YR01_03



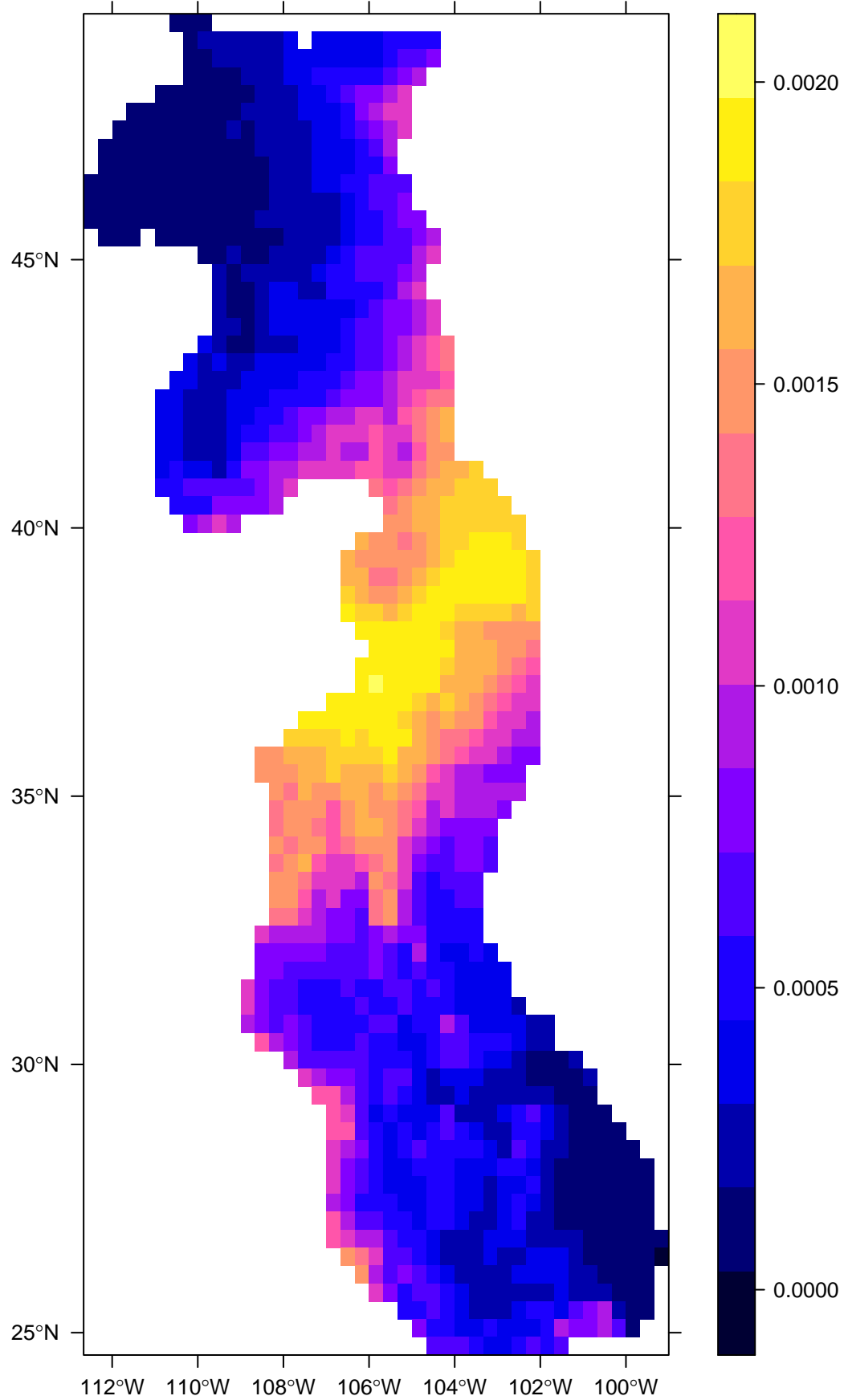
Probability Density Surface for juv_YR01_04



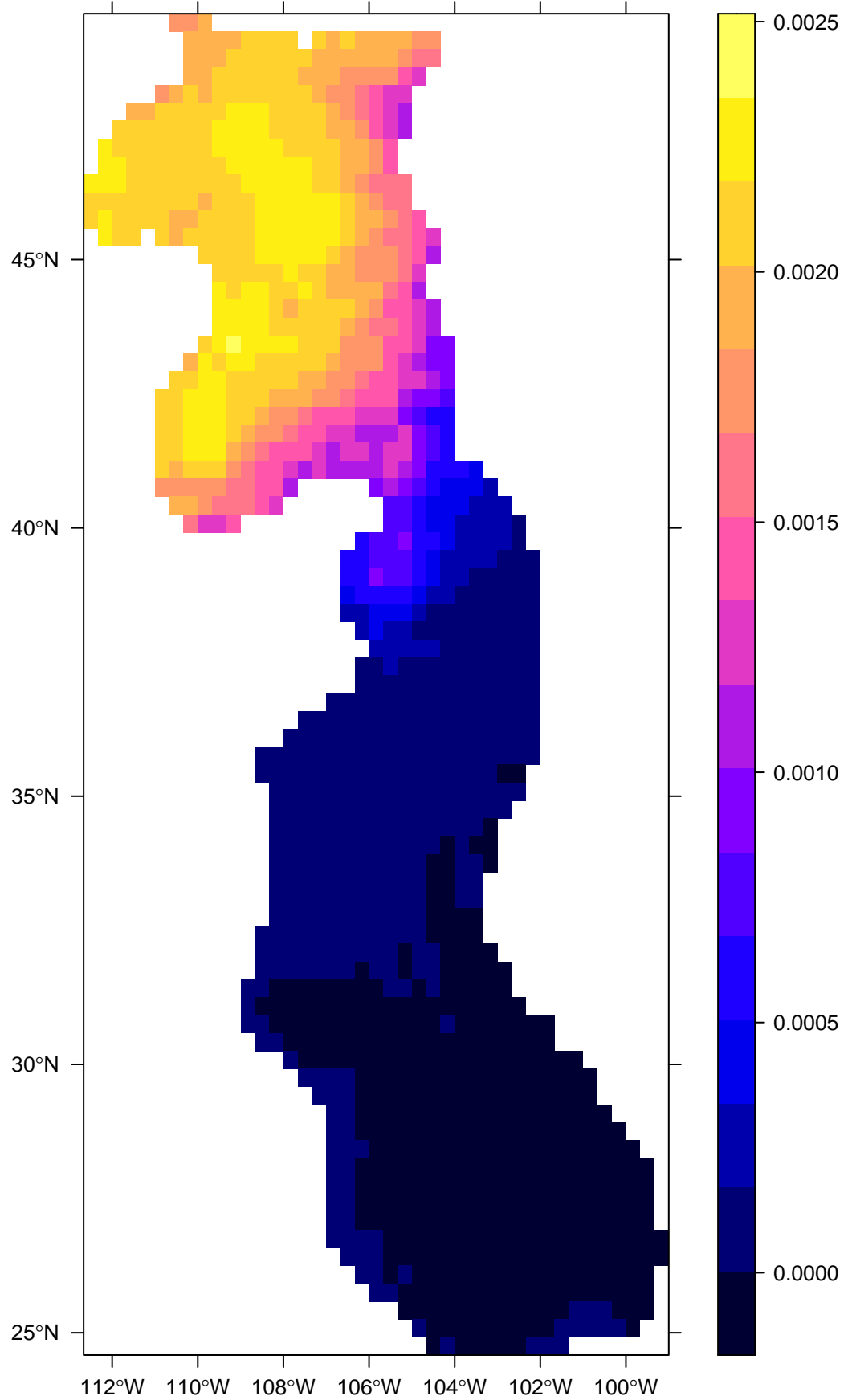
Probability Density Surface for juv_YR01_05



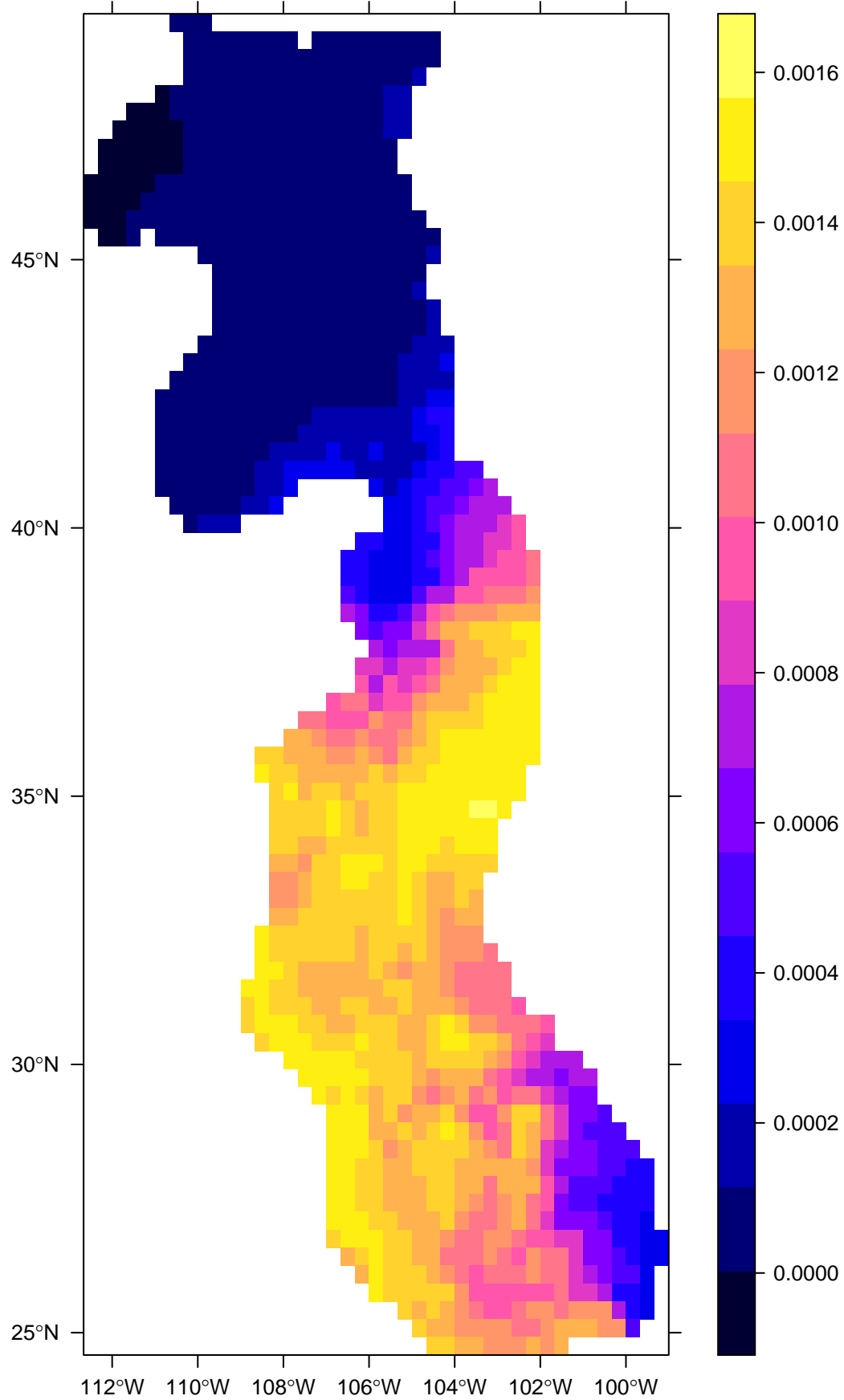
Probability Density Surface for juv_YR01_06



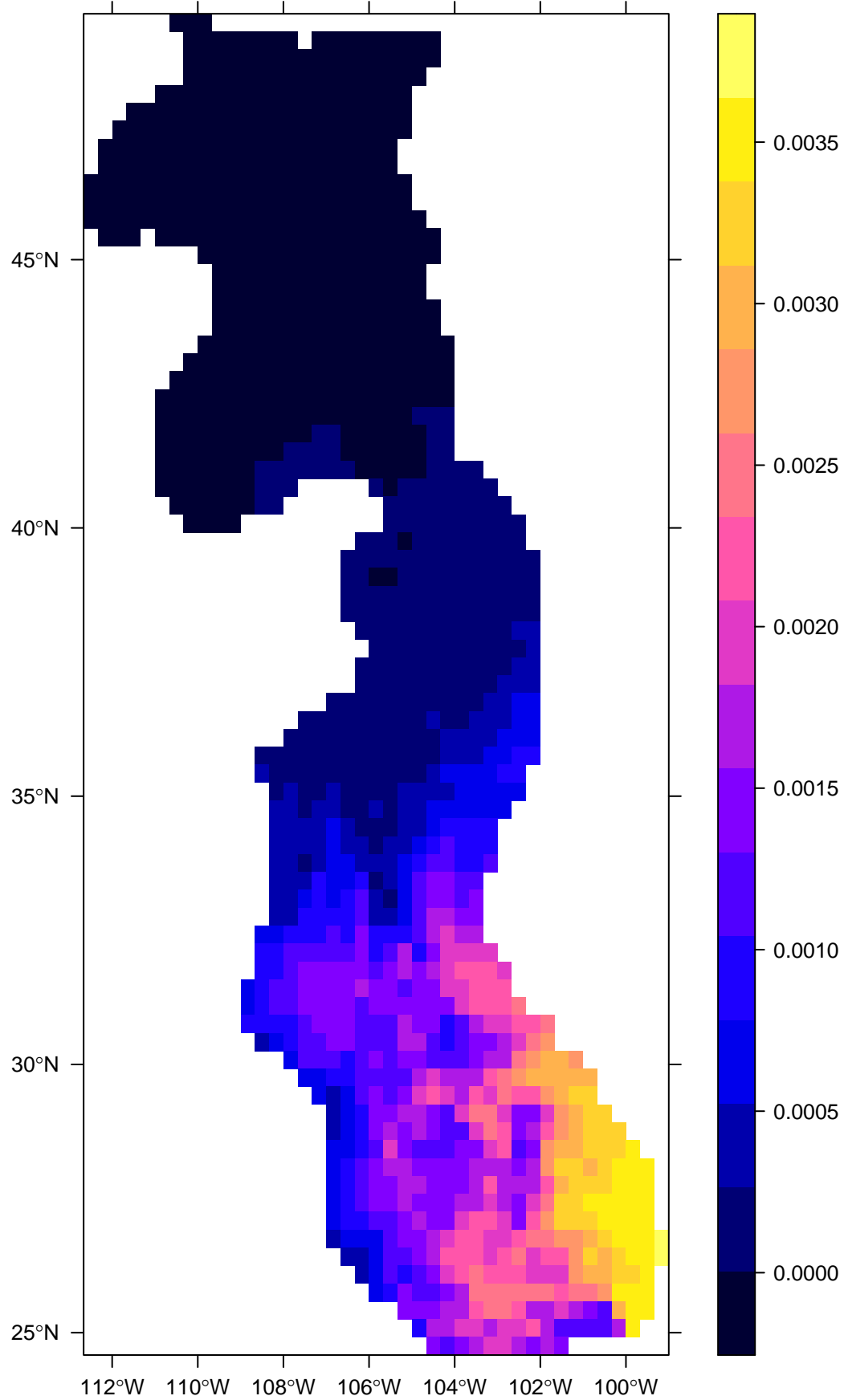
Probability Density Surface for juv_YR01_07



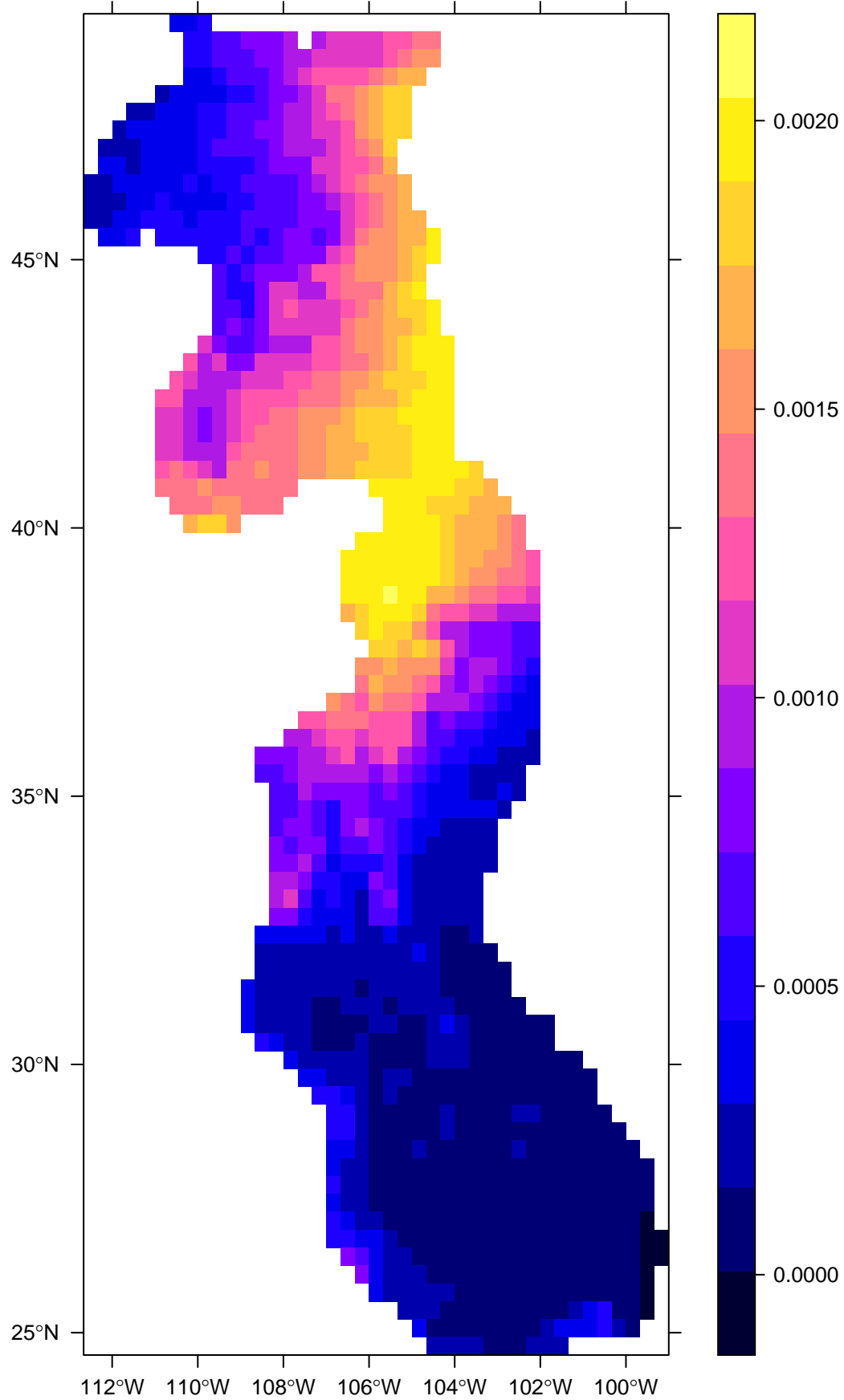
Probability Density Surface for juv_YR01_08



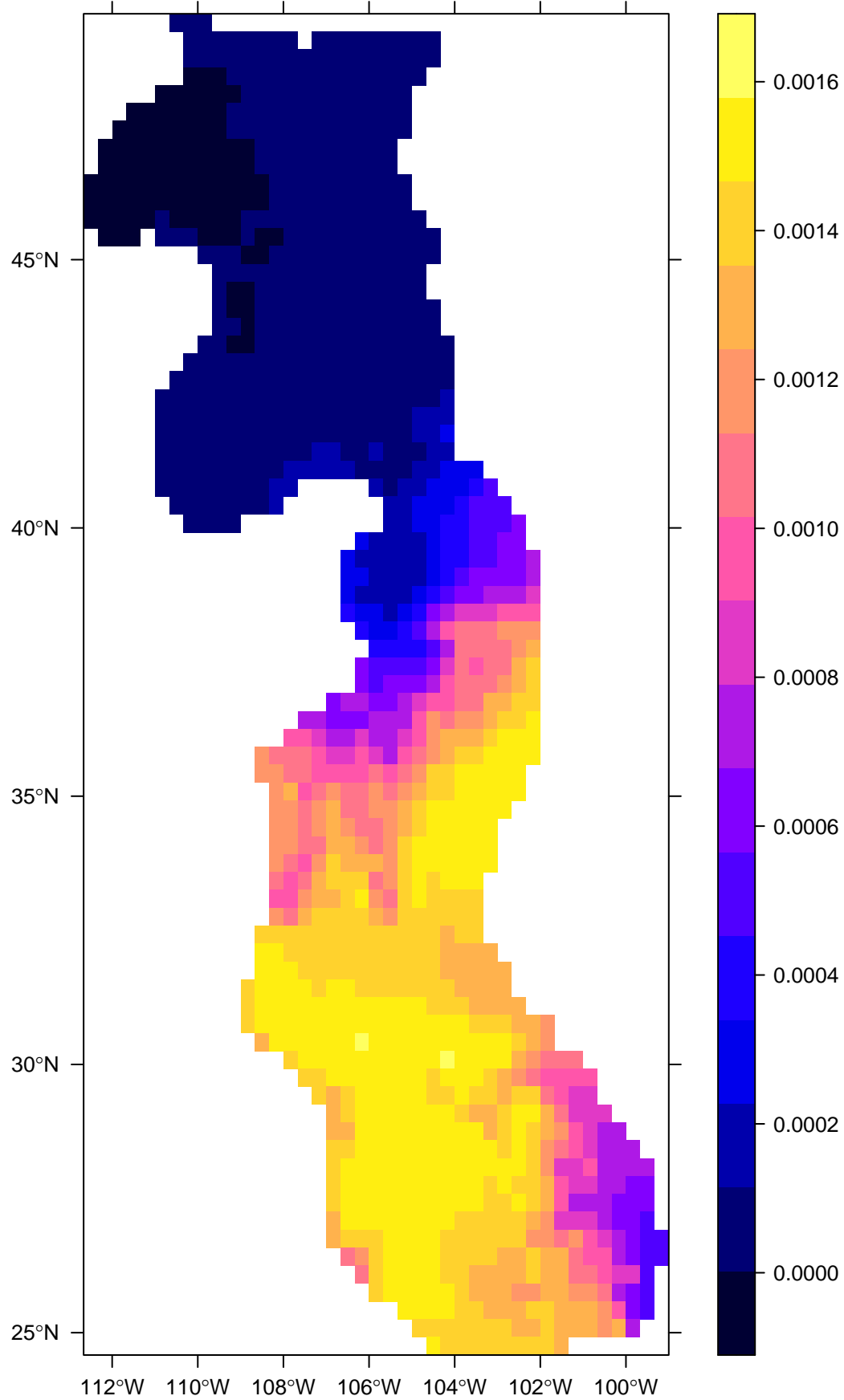
Probability Density Surface for juv_YR01_09



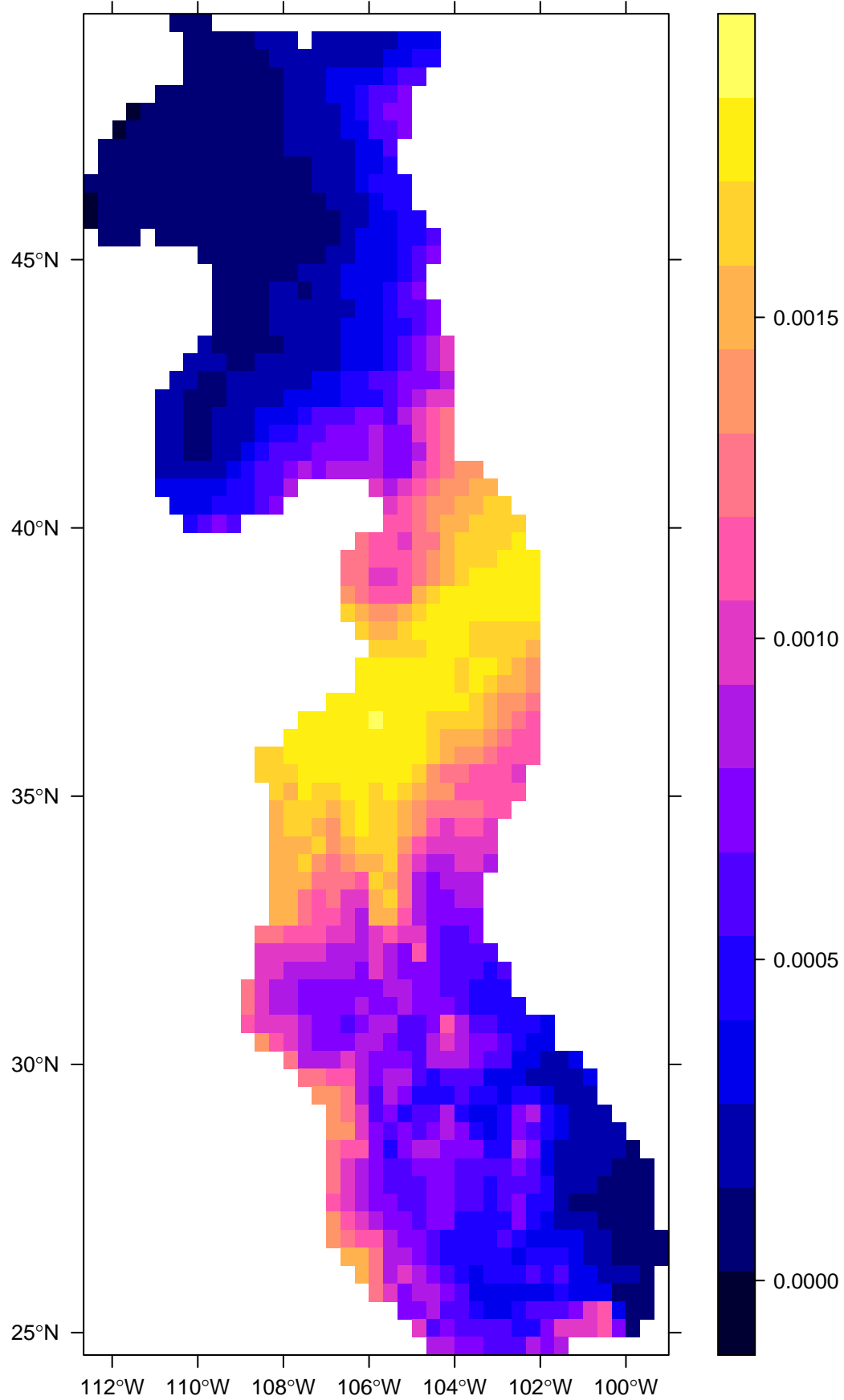
Probability Density Surface for juv_YR01_10



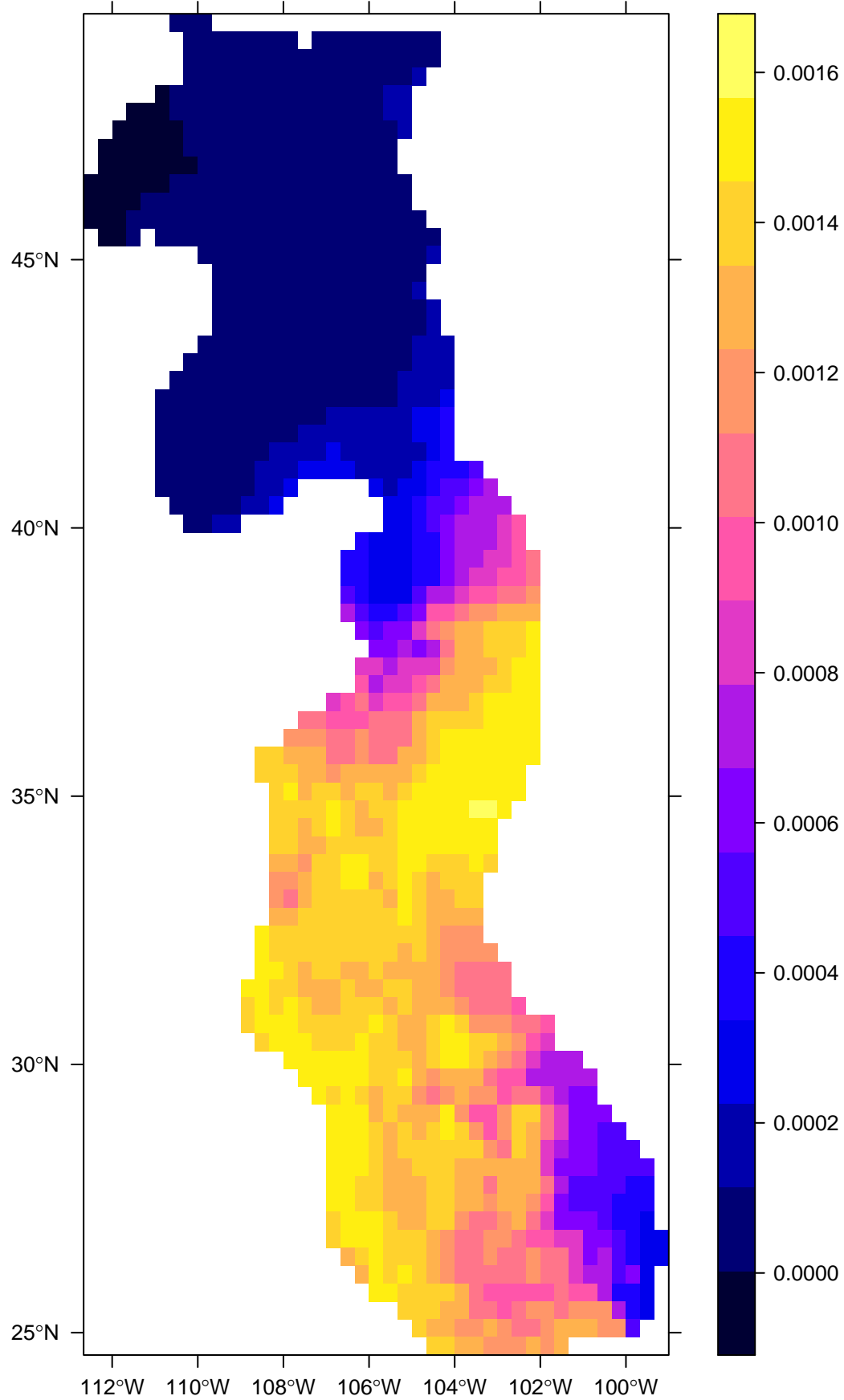
Probability Density Surface for juv_YR01_11



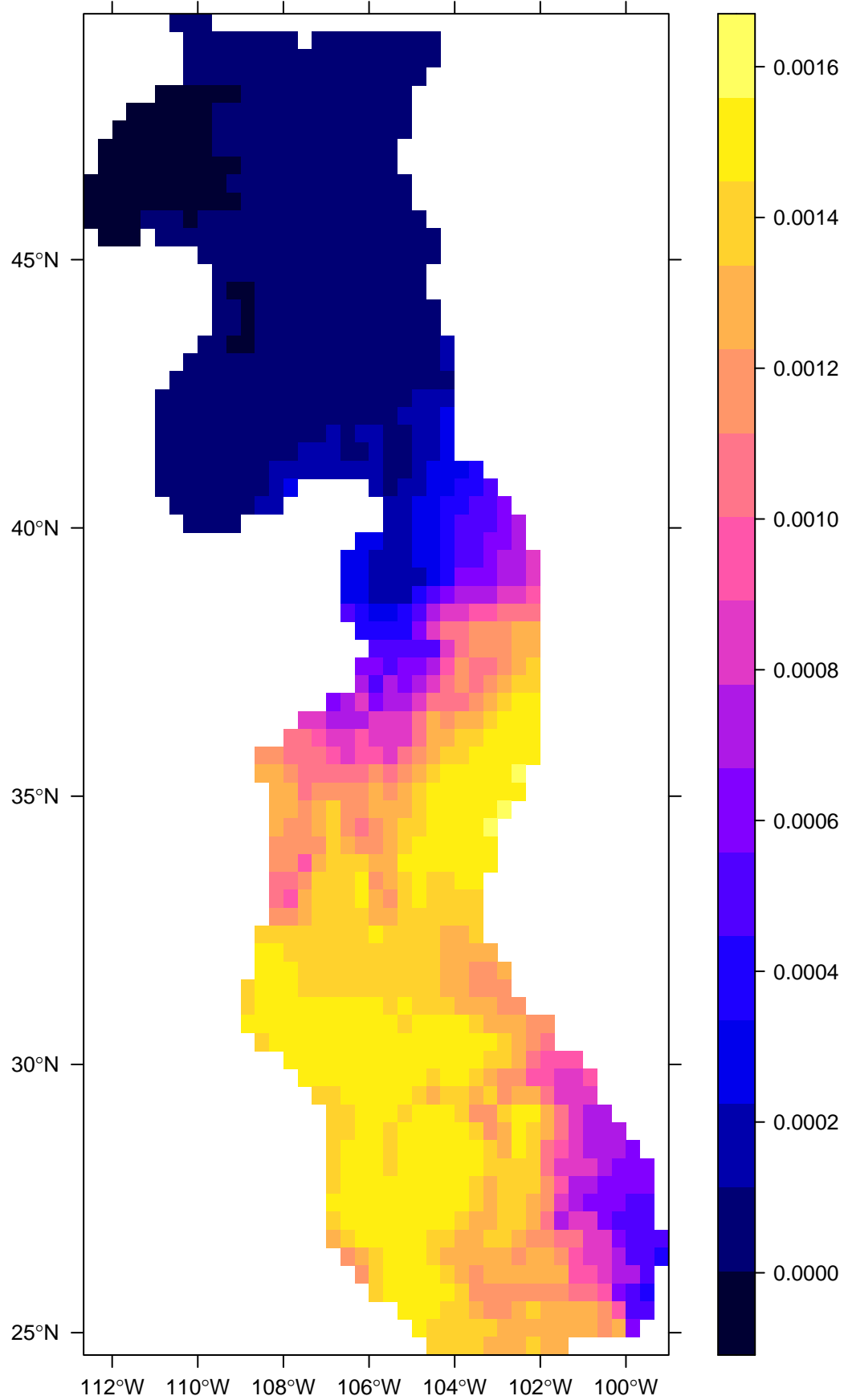
Probability Density Surface for juv_YR01_12



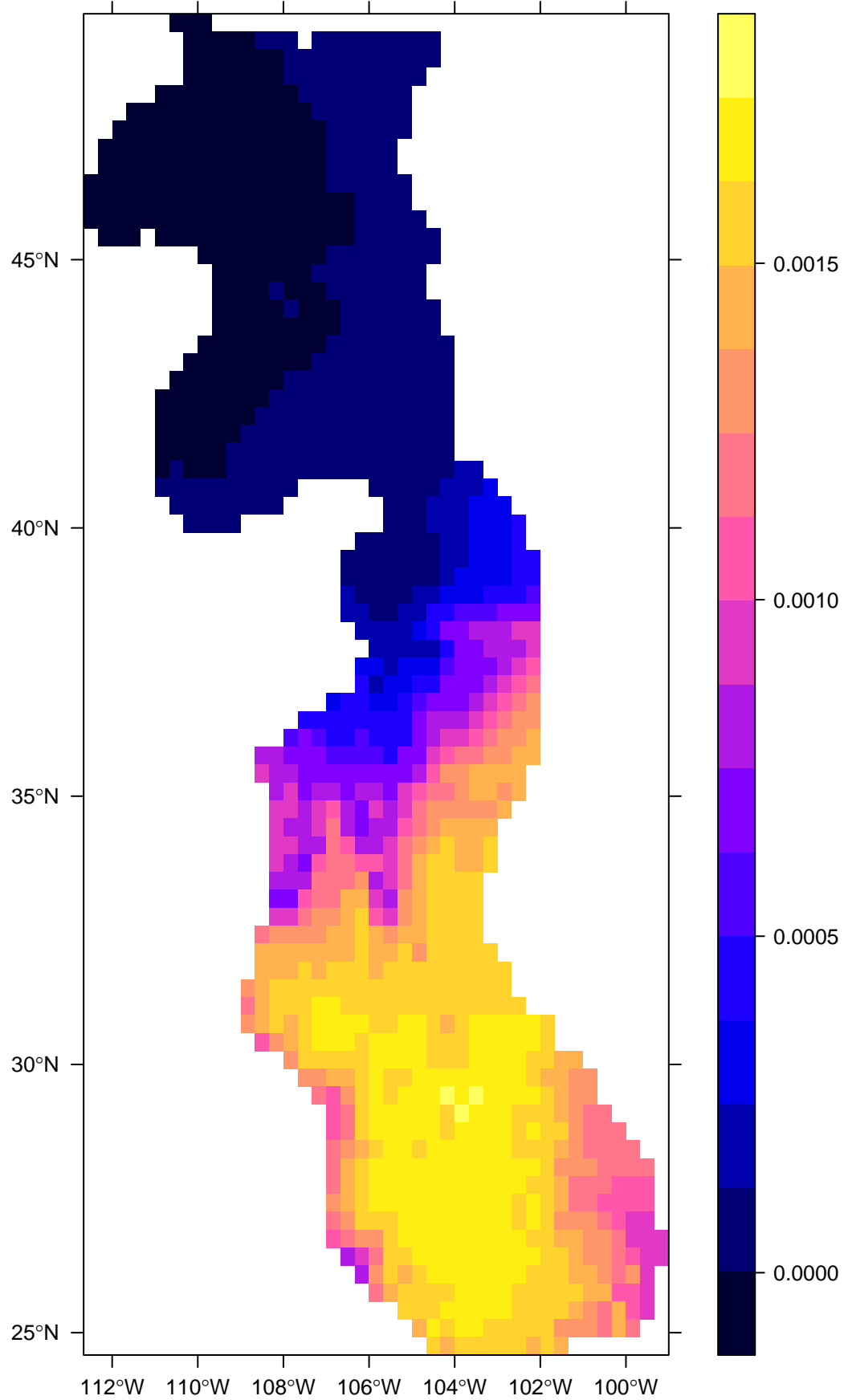
Probability Density Surface for juv_YR01_13



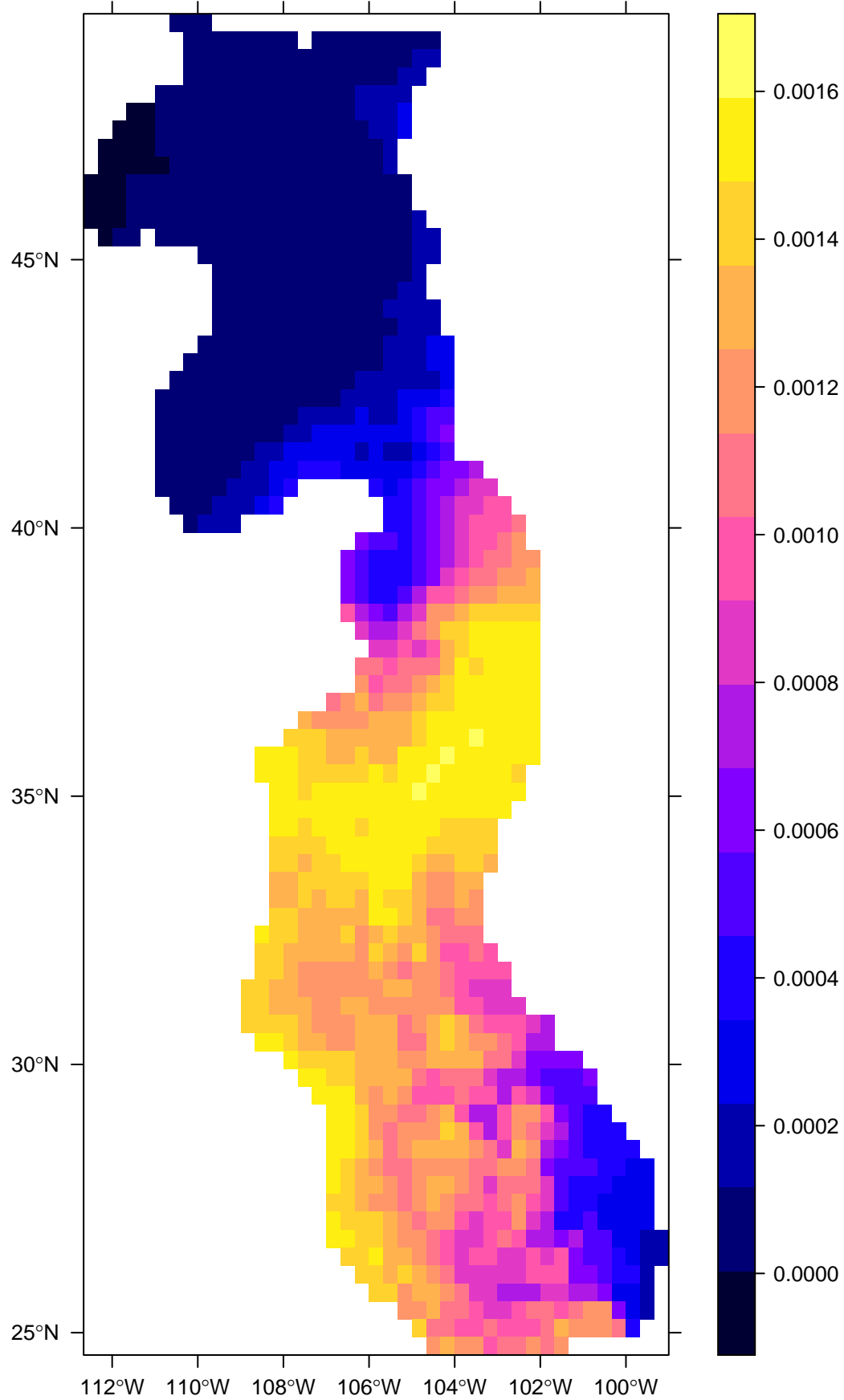
Probability Density Surface for juv_YR01_14



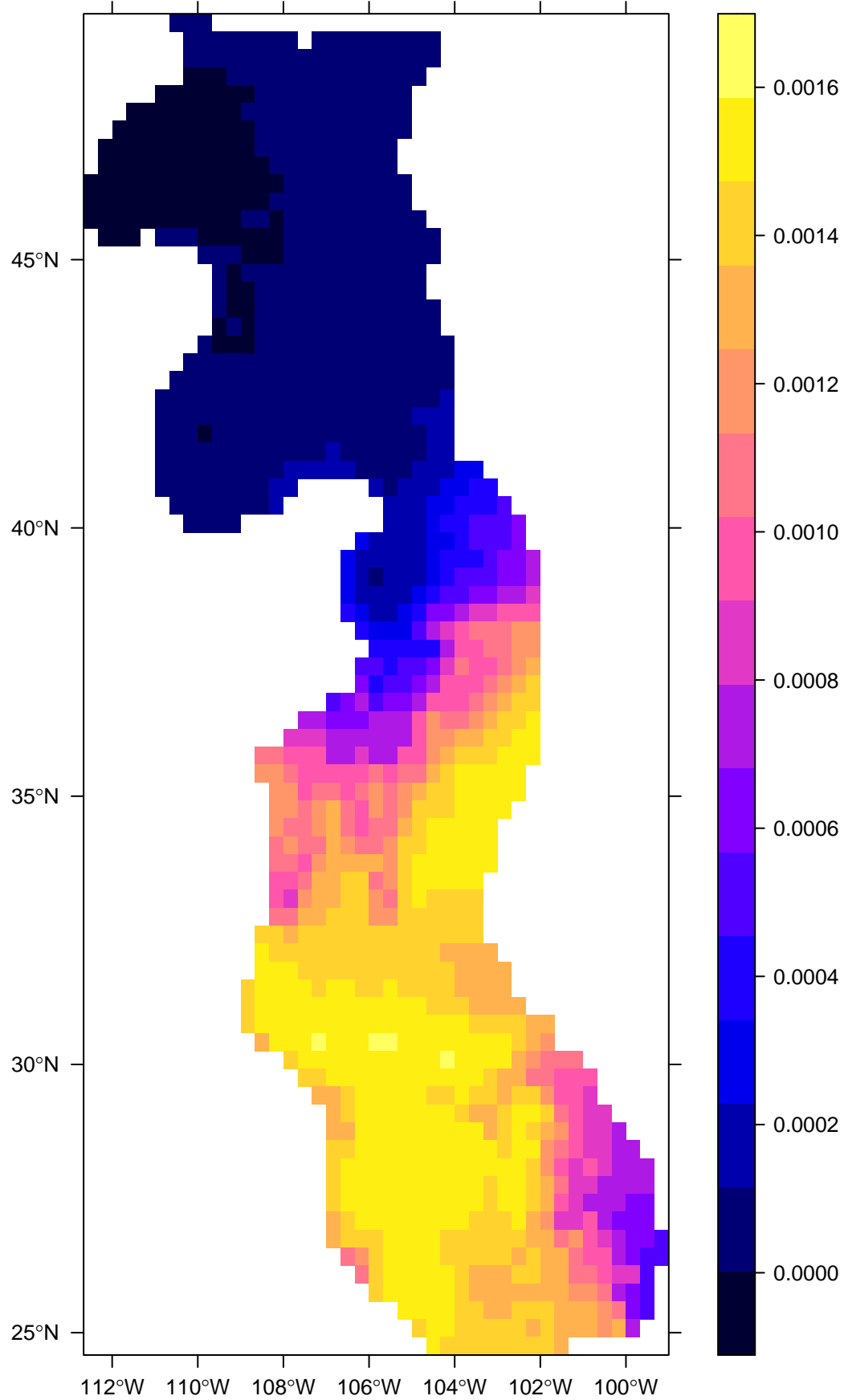
Probability Density Surface for juv_YR01_15



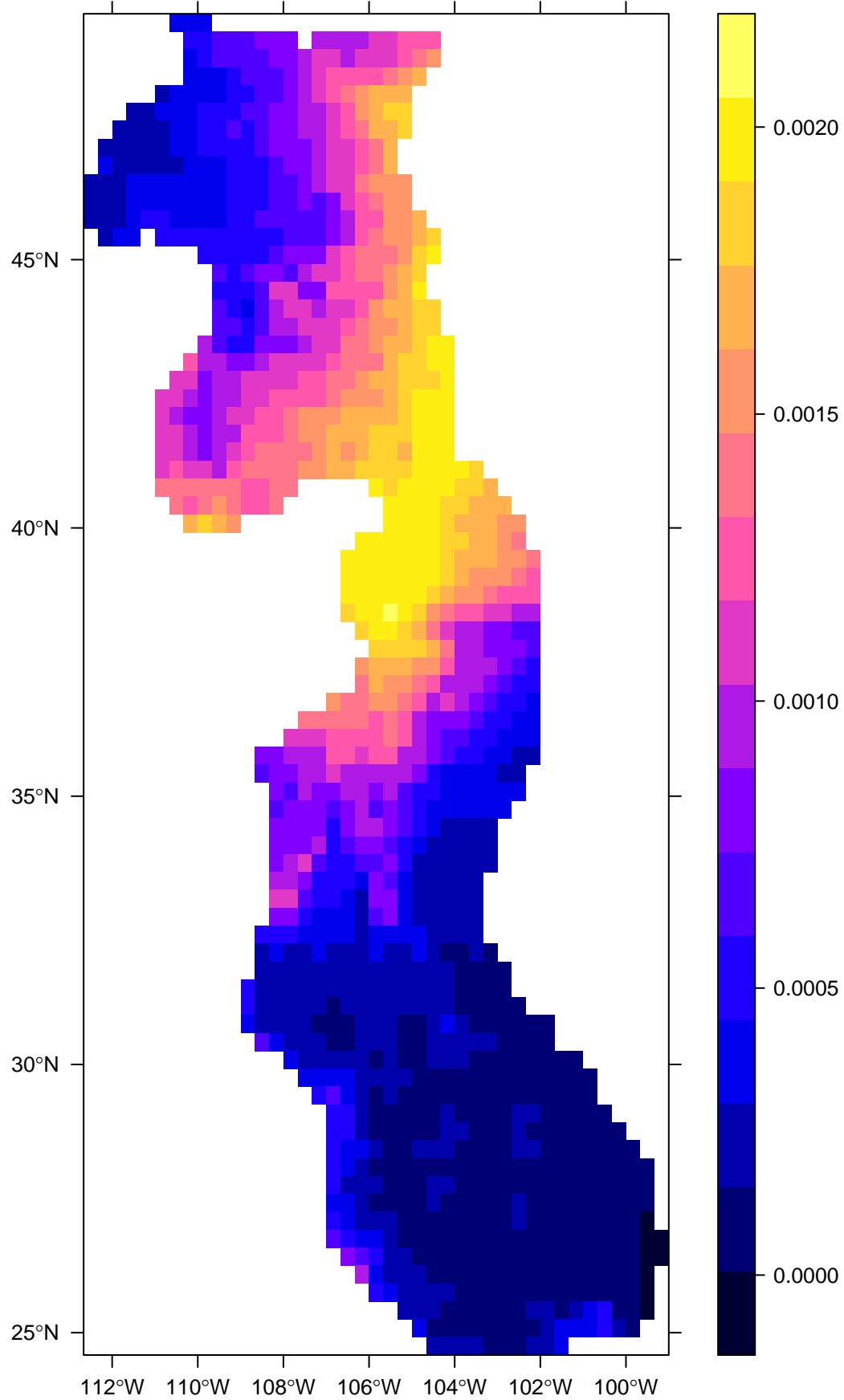
Probability Density Surface for juv_YR01_16



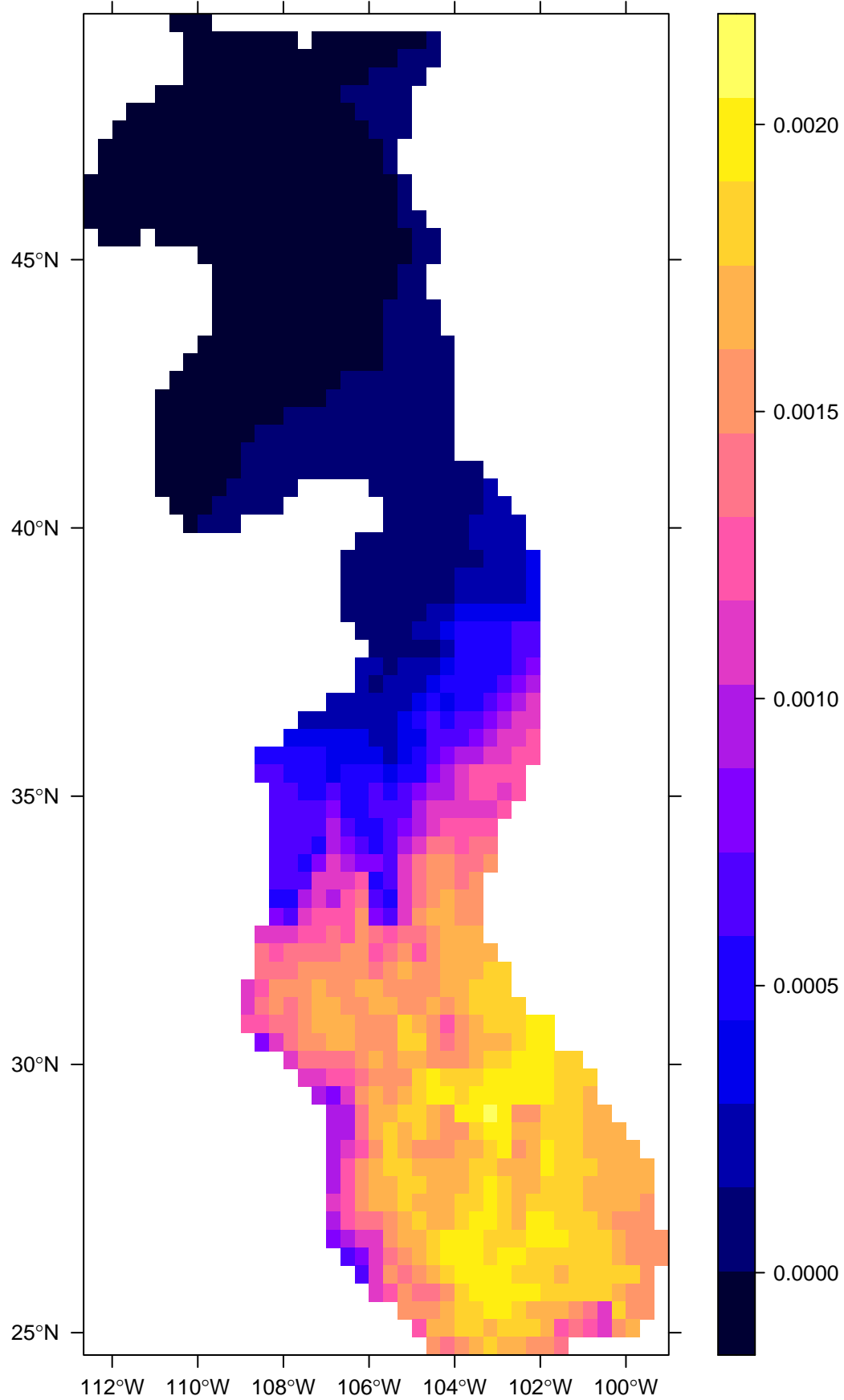
Probability Density Surface for juv_YR01_17



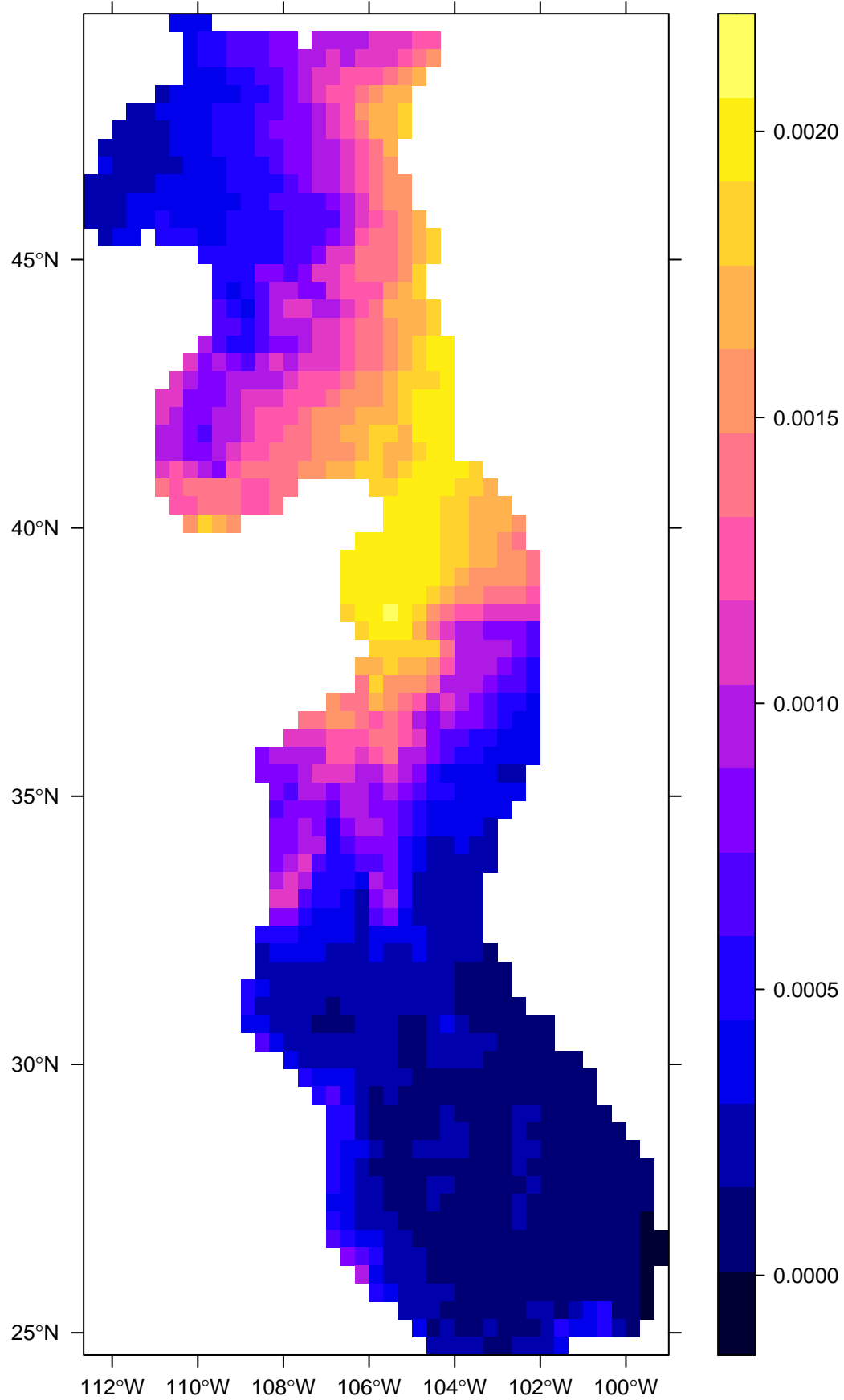
Probability Density Surface for juv_YR01_18



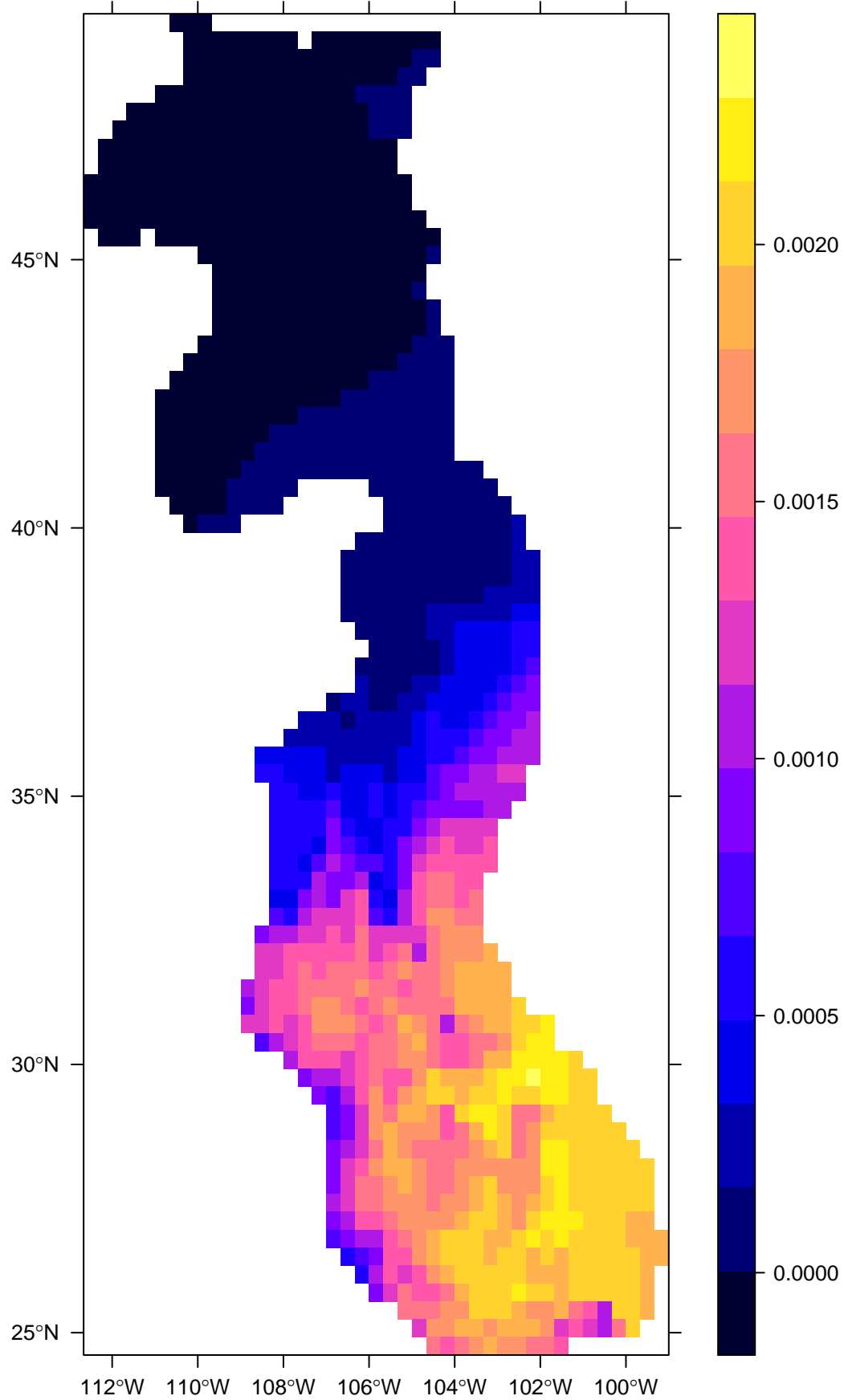
Probability Density Surface for juv_YR01_19



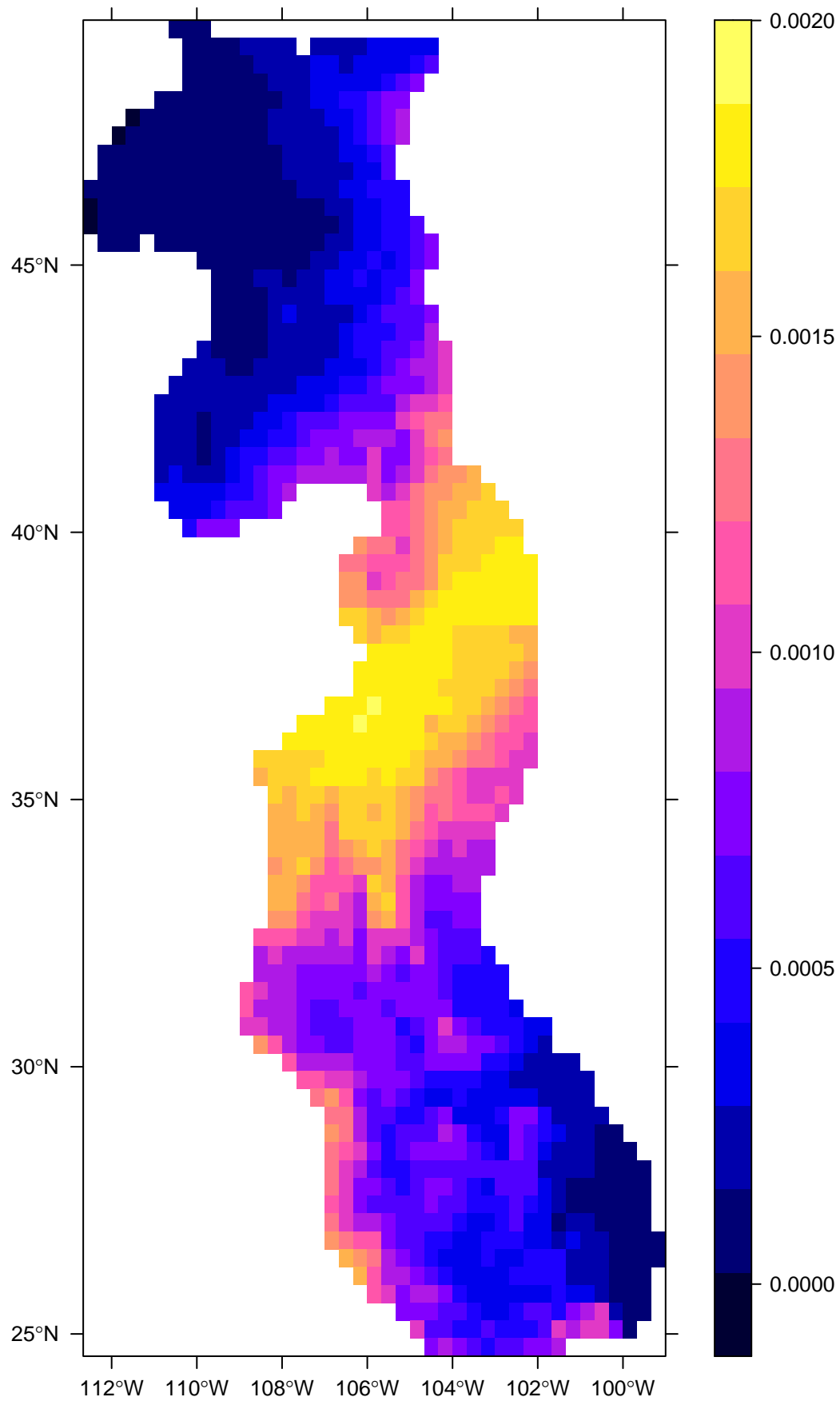
Probability Density Surface for juv_YR01_20



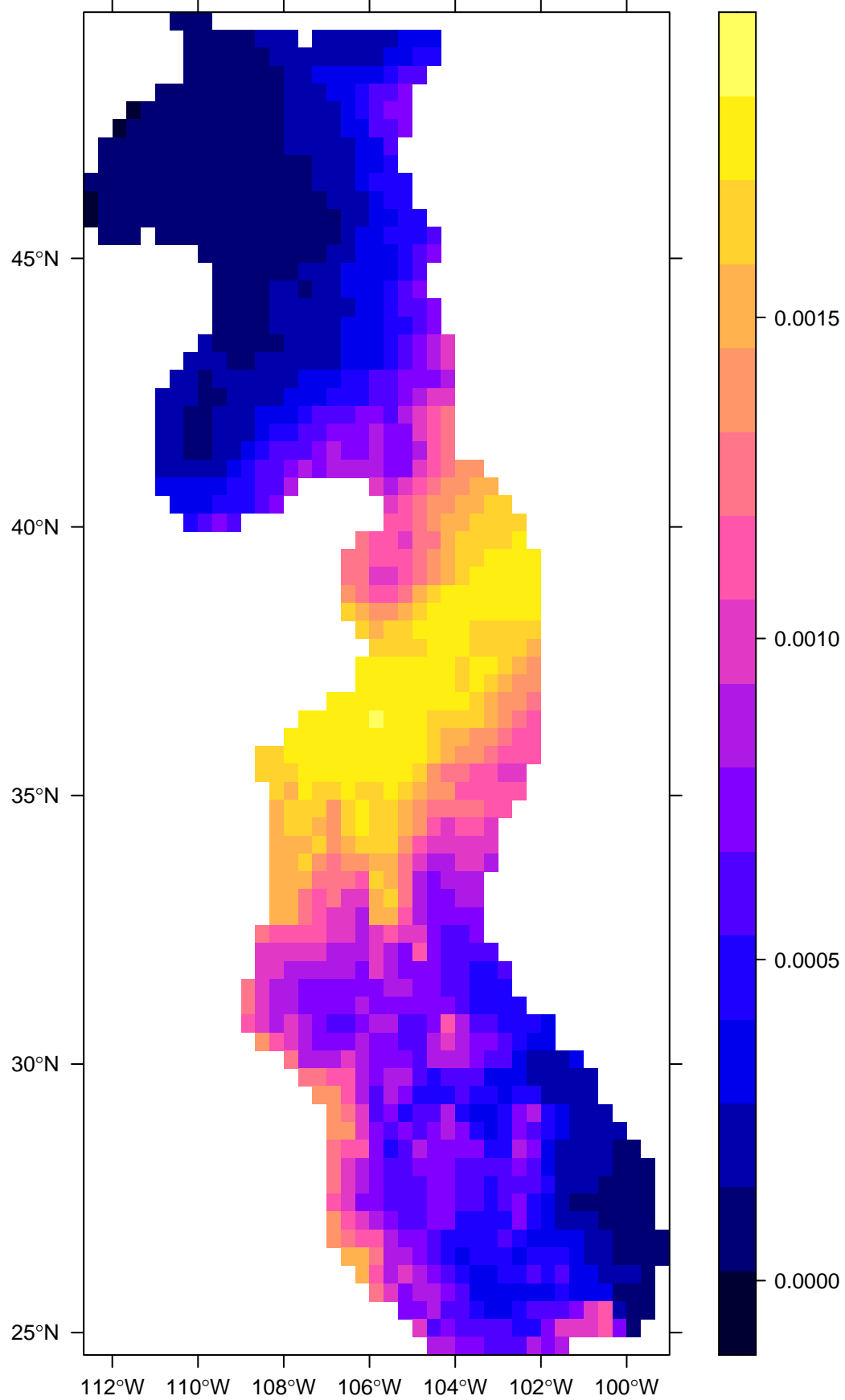
Probability Density Surface for juv_YR01_21



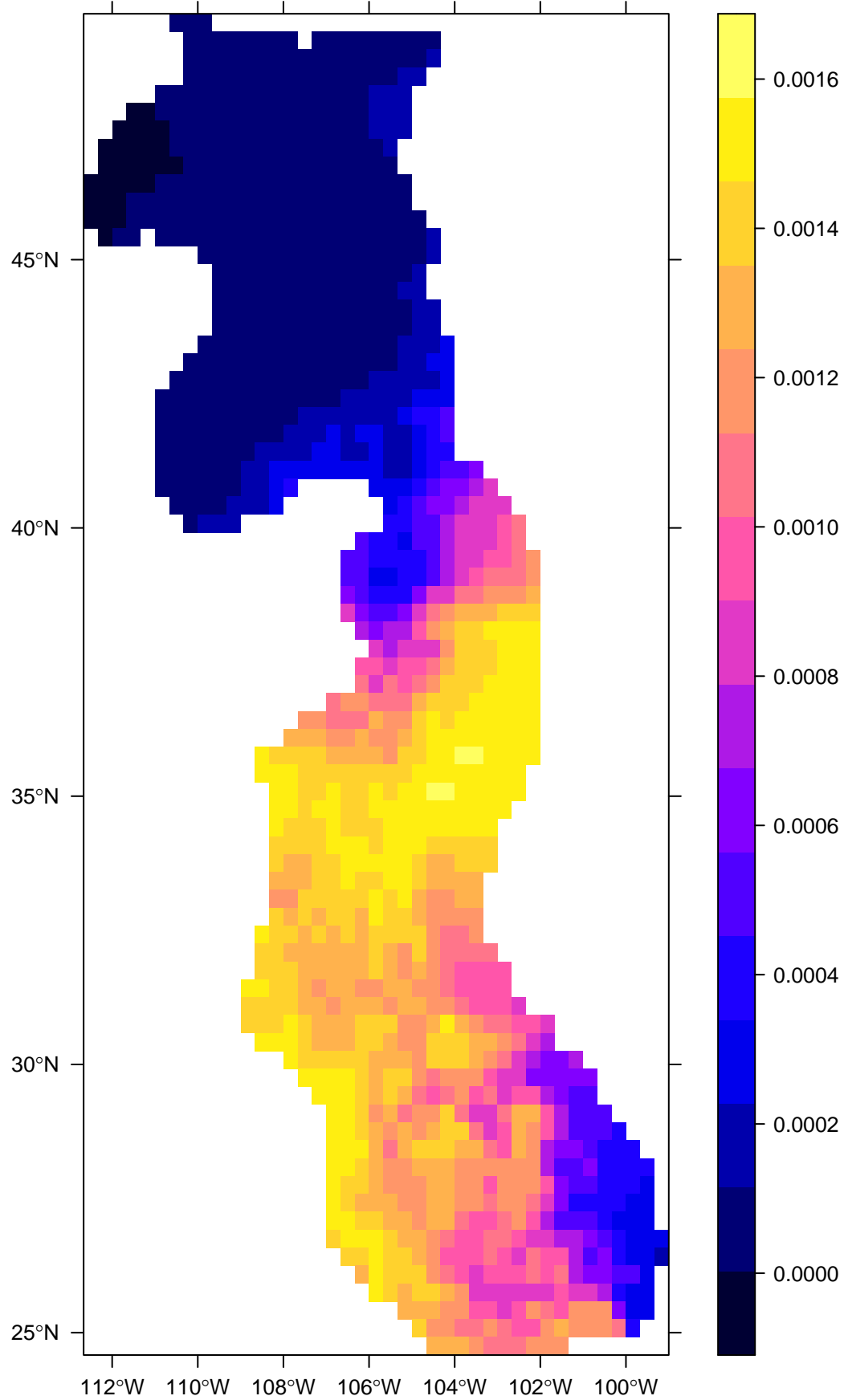
Probability Density Surface for juv_YR01_22



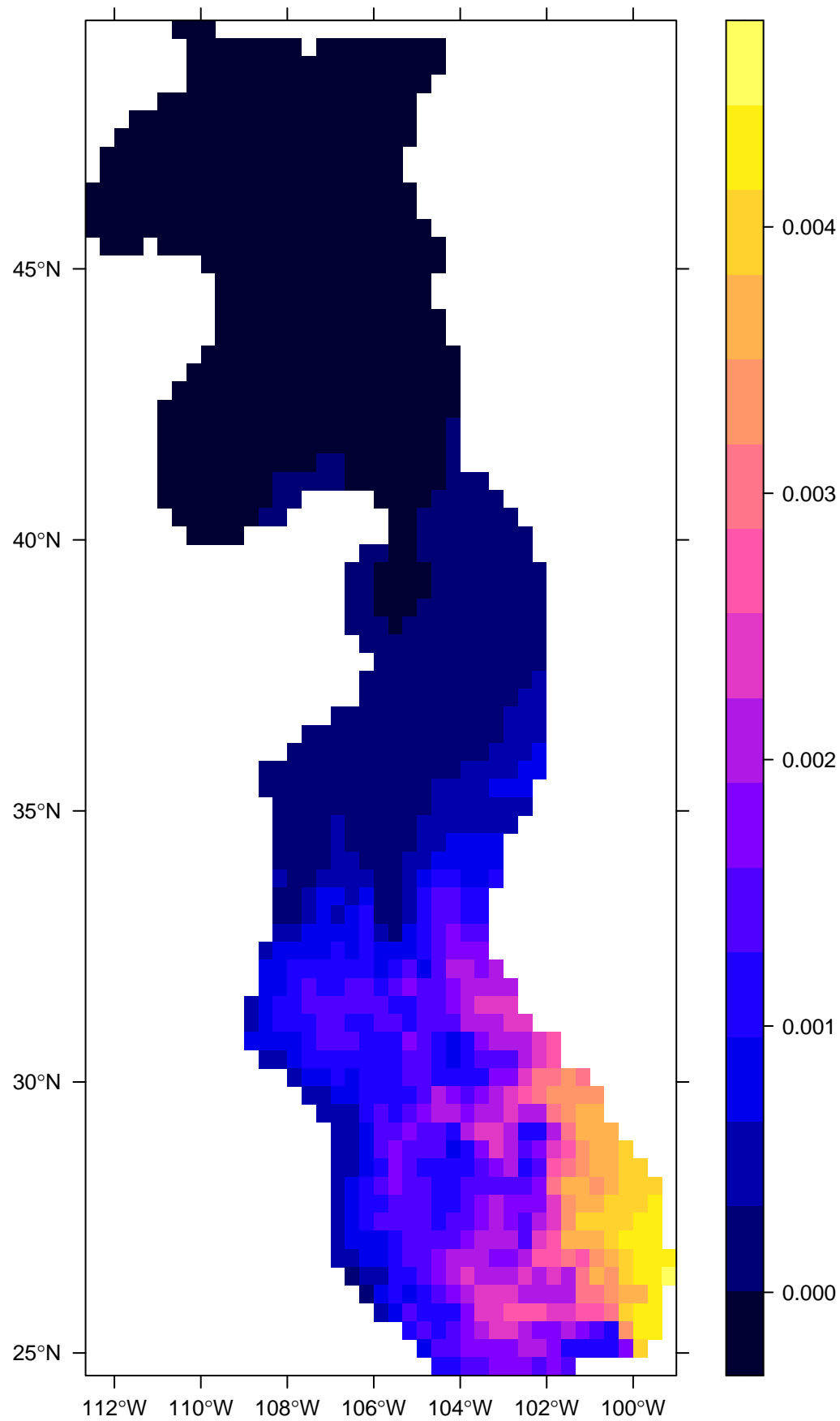
Probability Density Surface for juv_YR01_23



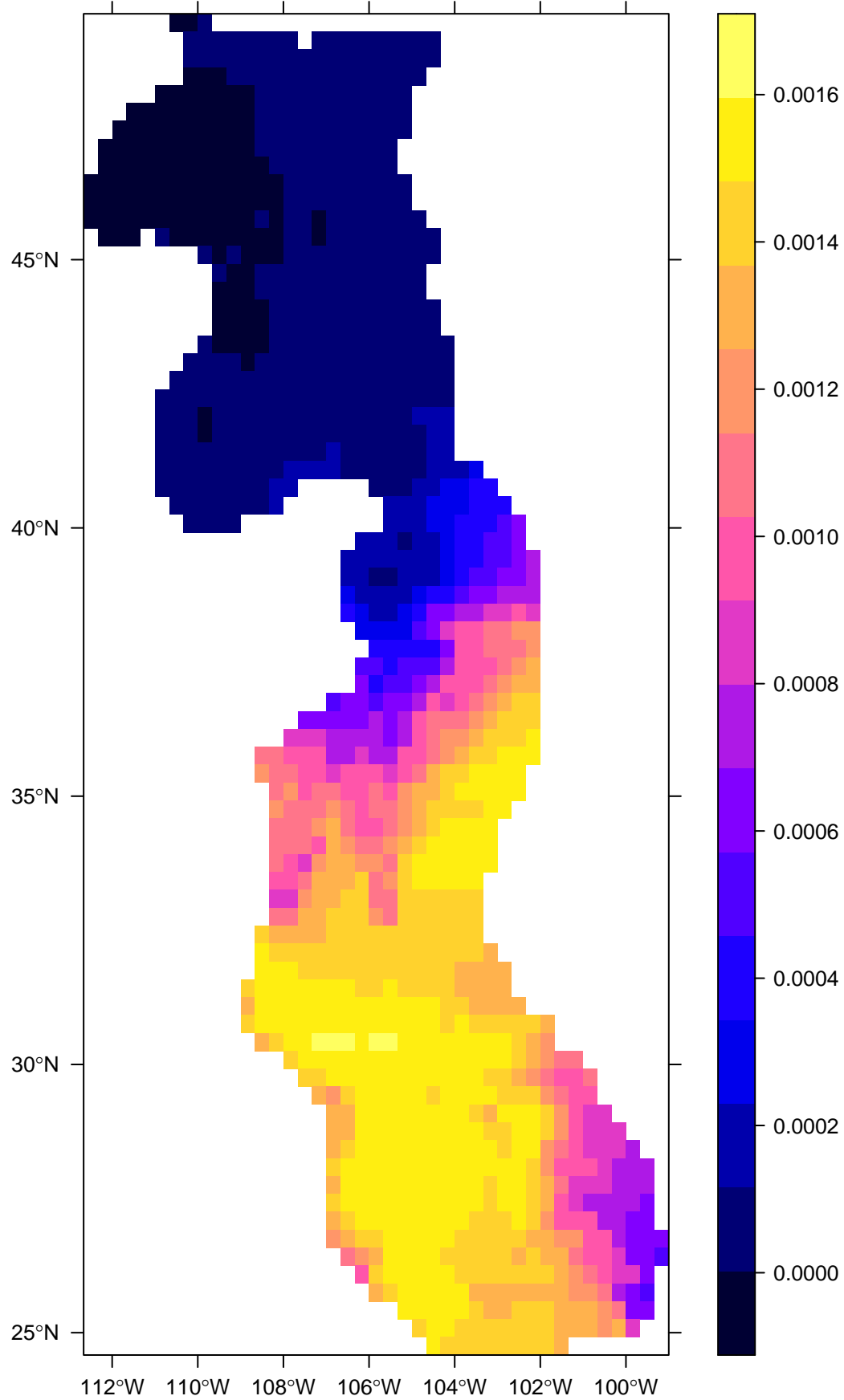
Probability Density Surface for juv_YR01_24



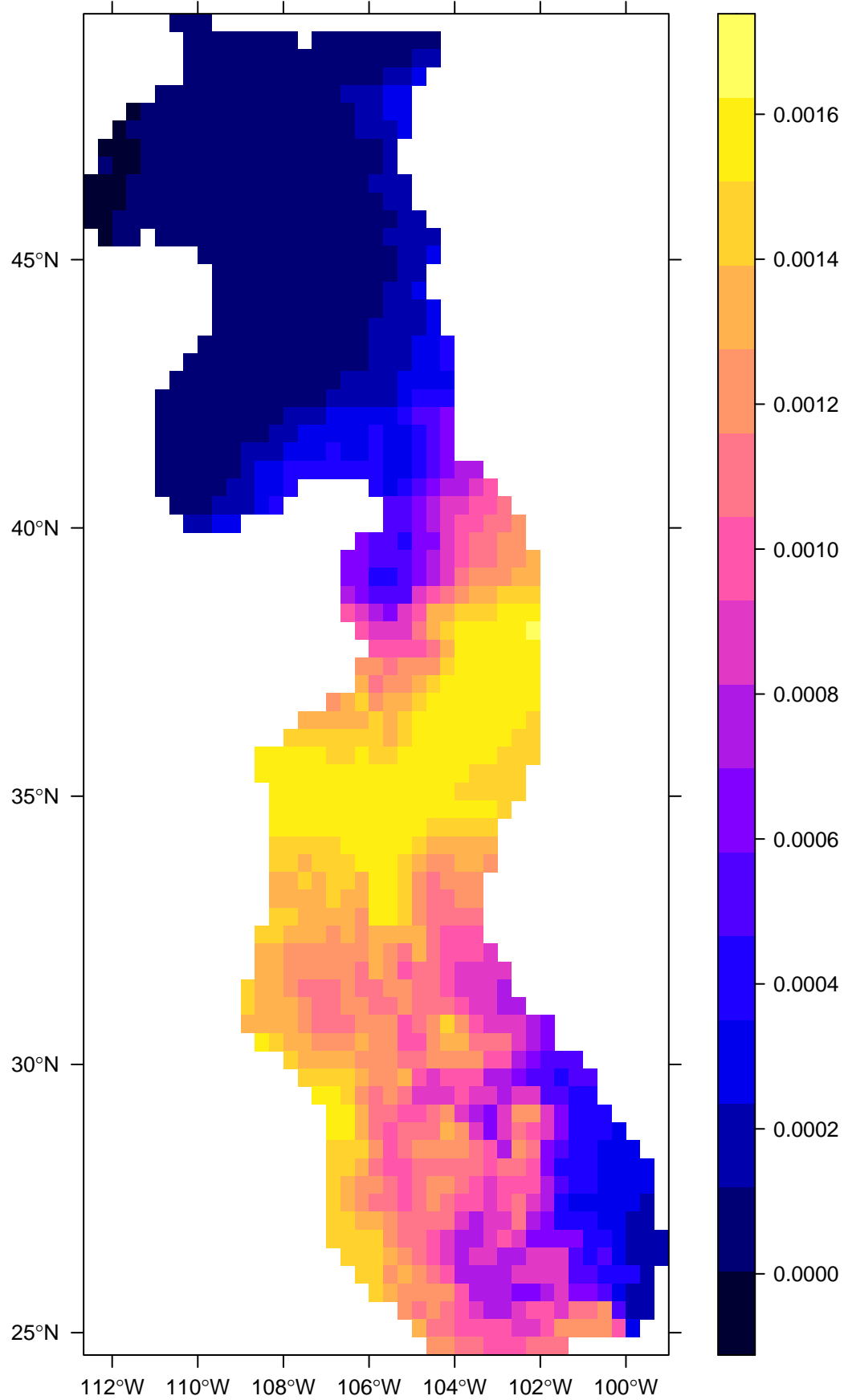
Probability Density Surface for juv_YR02_01



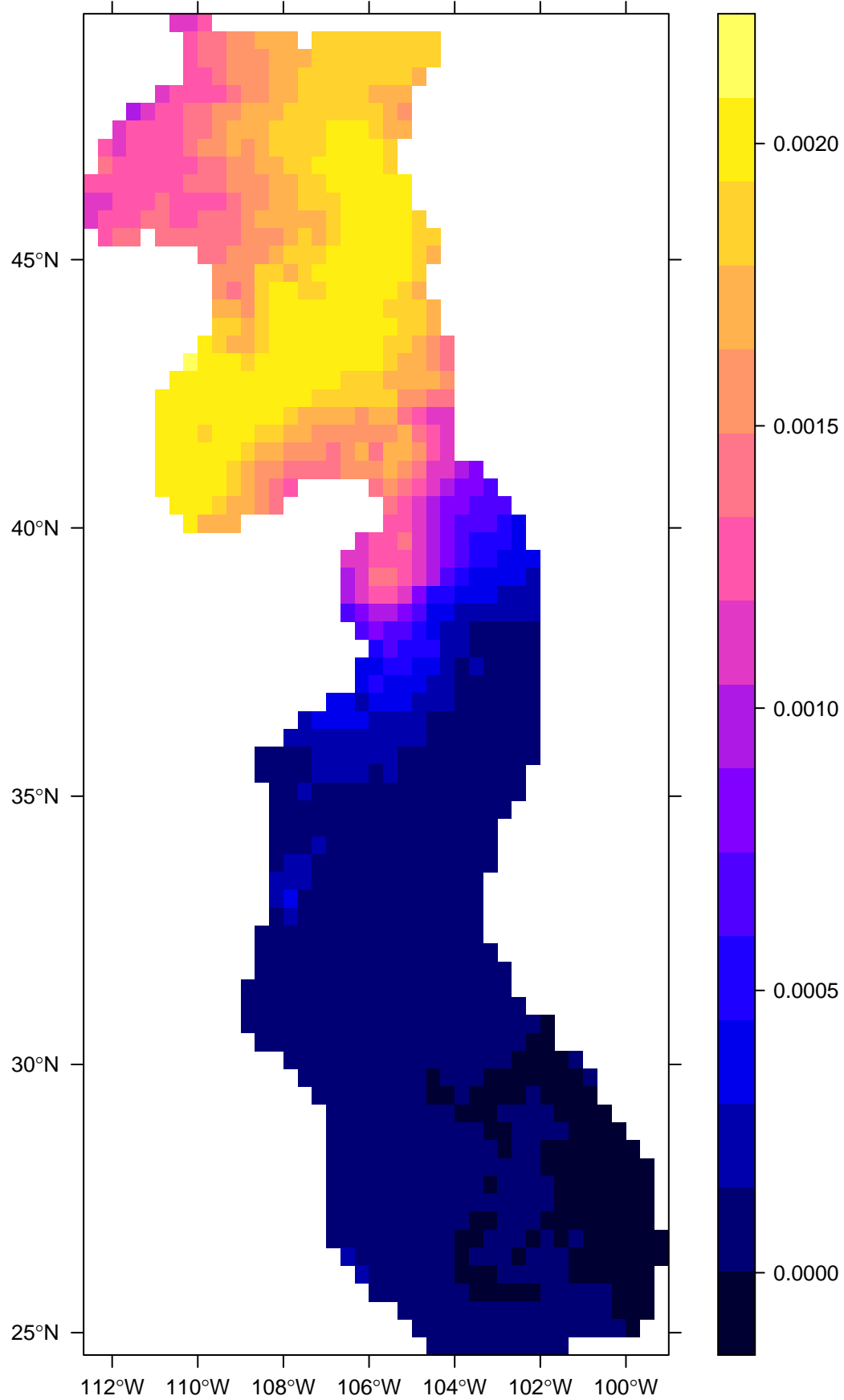
Probability Density Surface for juv_YR02_02



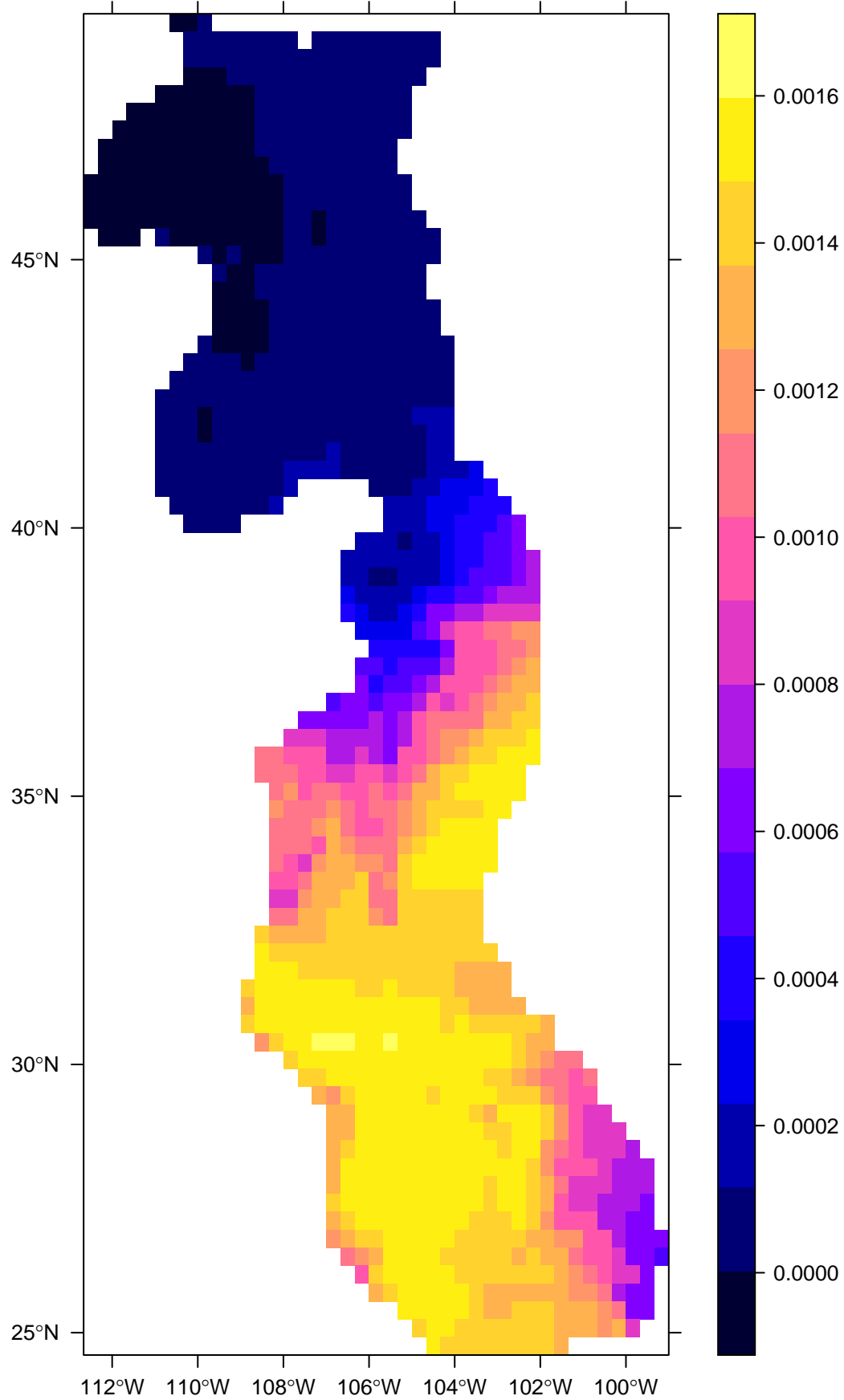
Probability Density Surface for juv_YR02_03



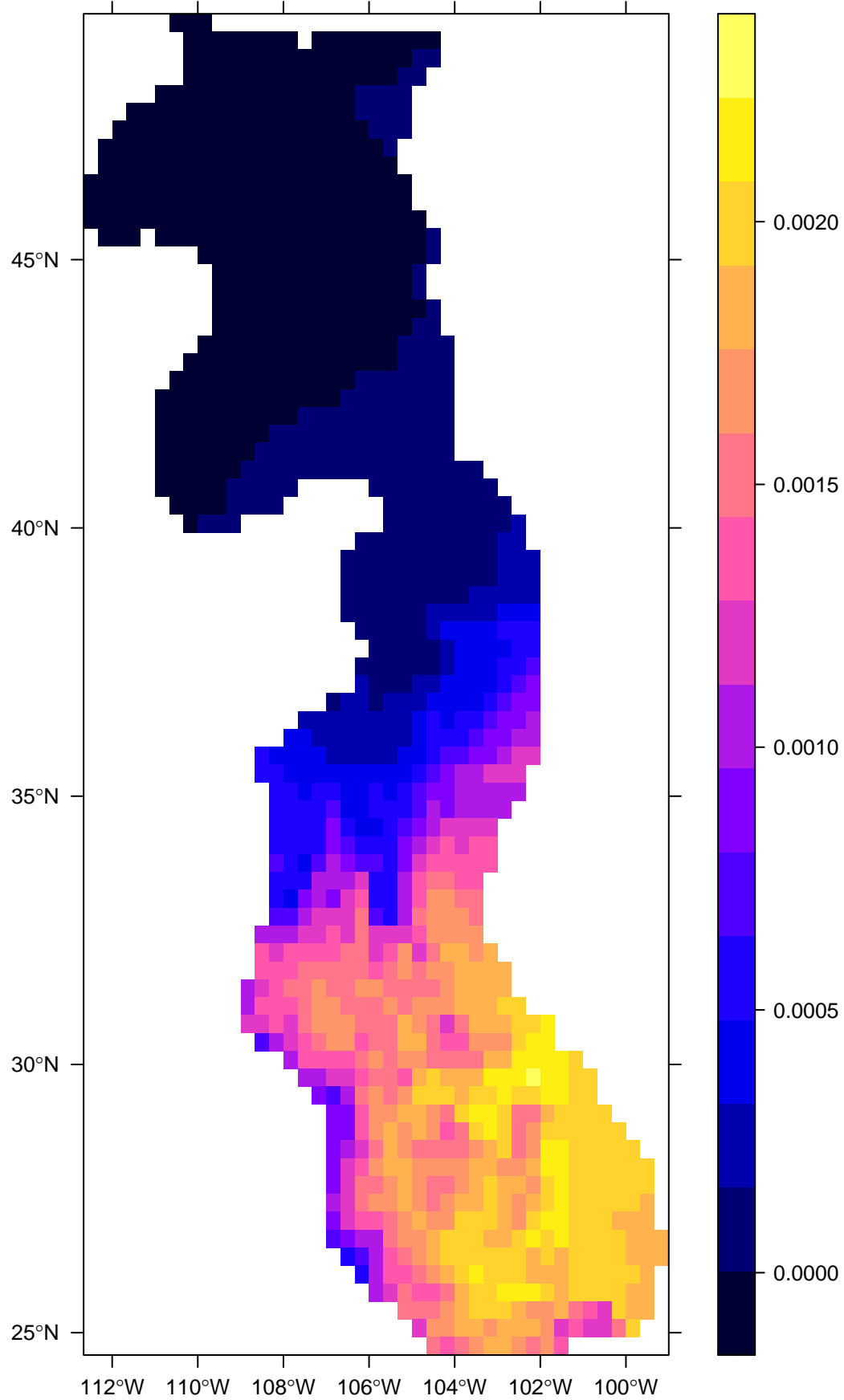
Probability Density Surface for juv_YR02_04



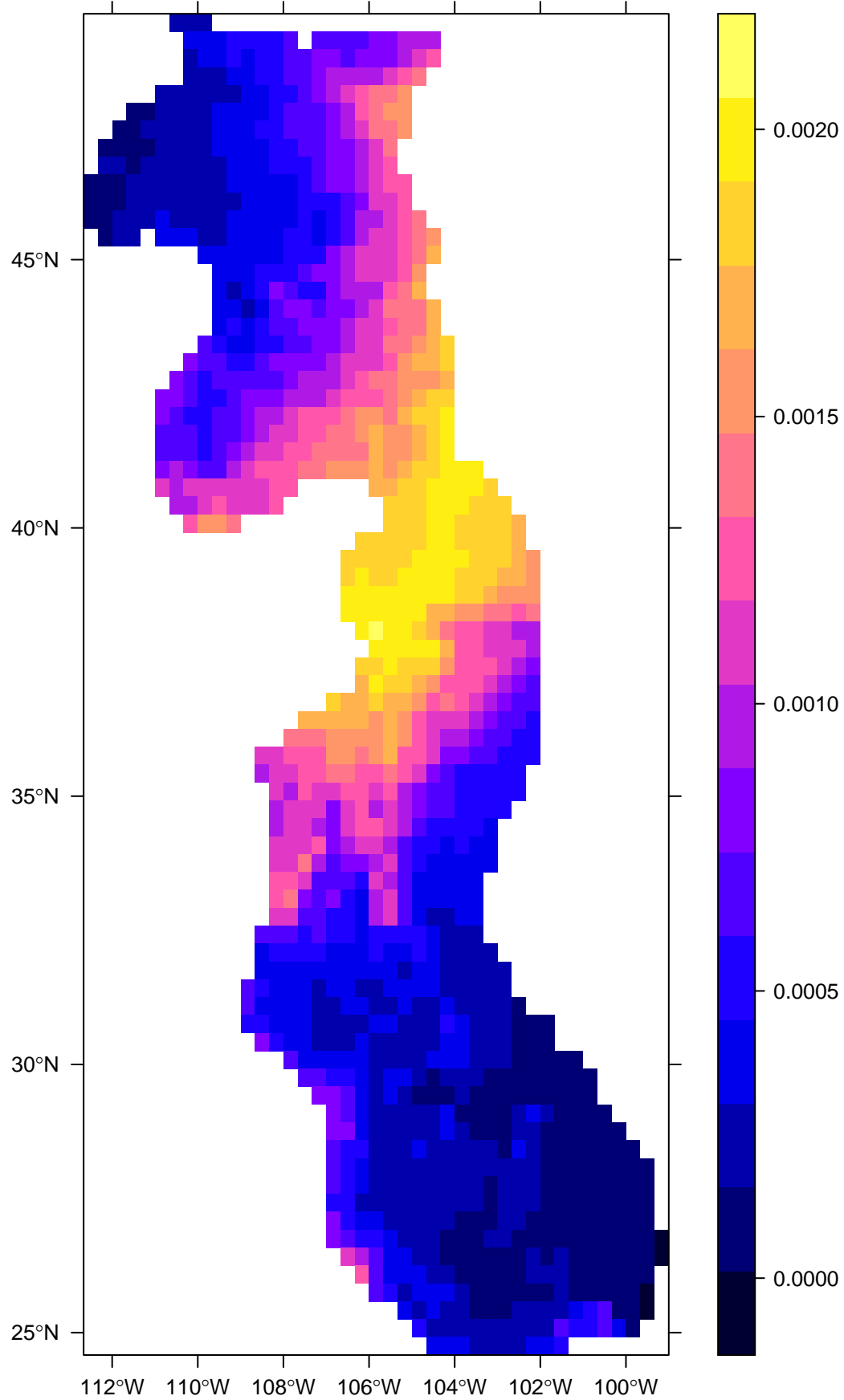
Probability Density Surface for juv_YR02_05



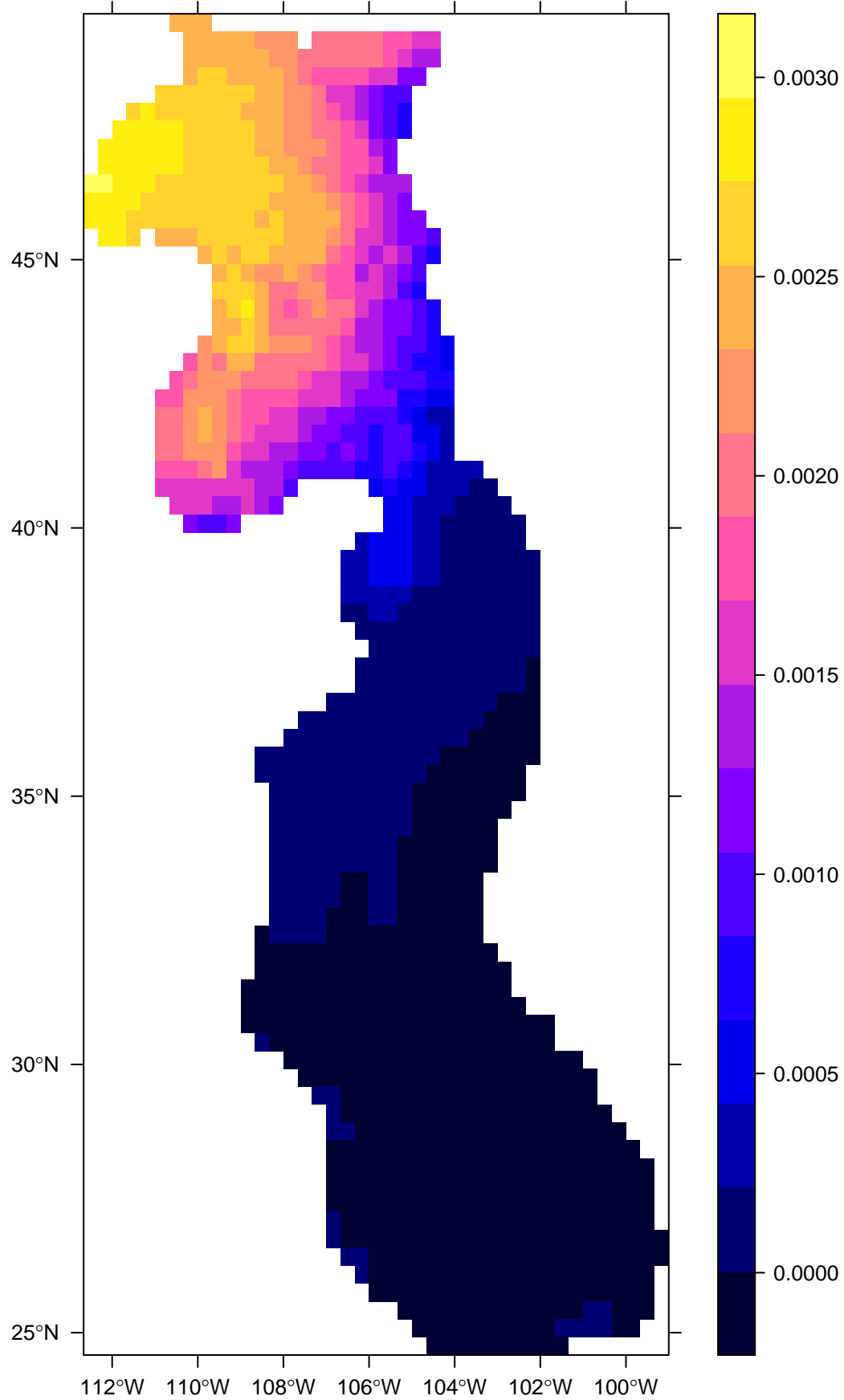
Probability Density Surface for juv_YR02_06



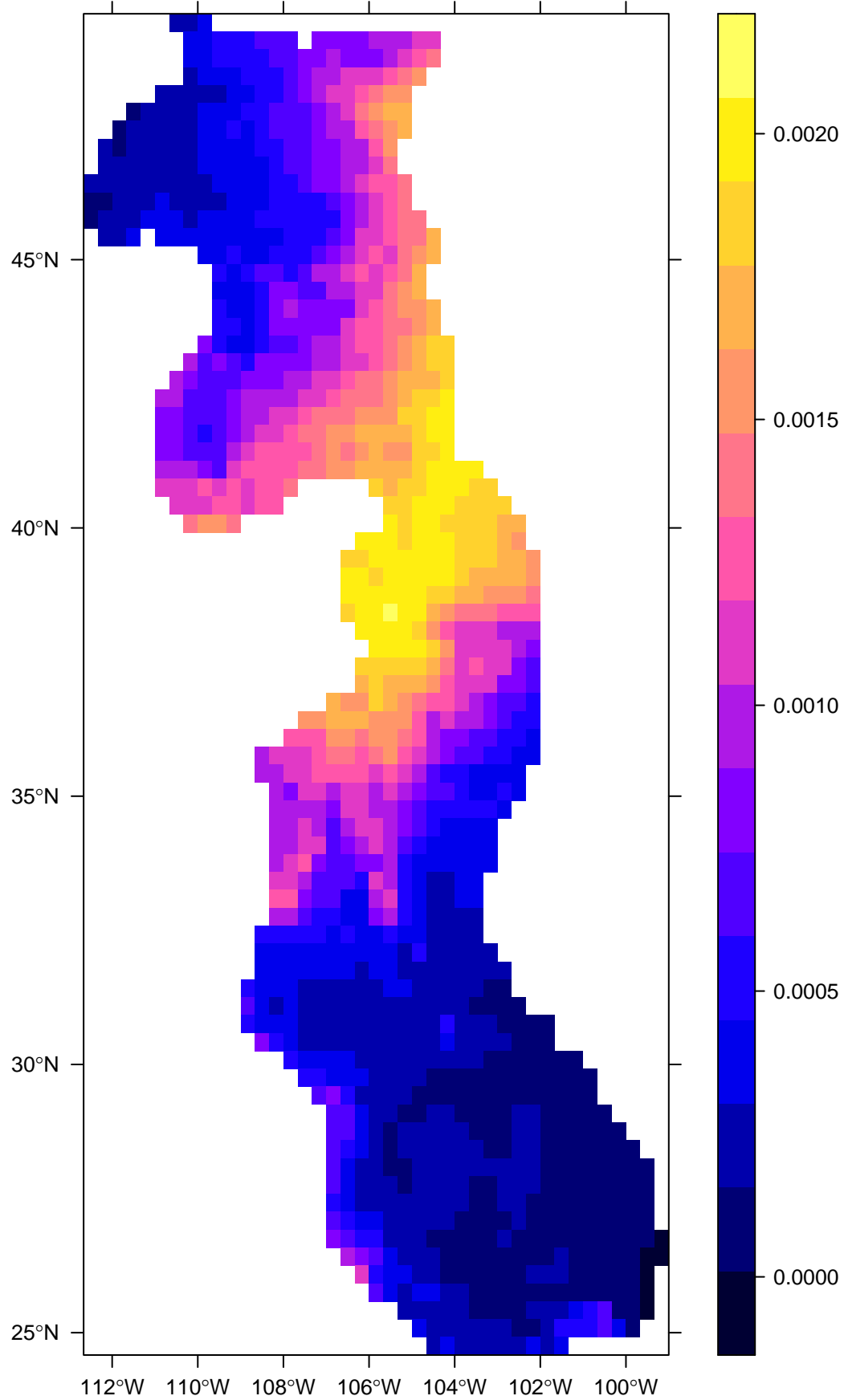
Probability Density Surface for juv_YR02_07



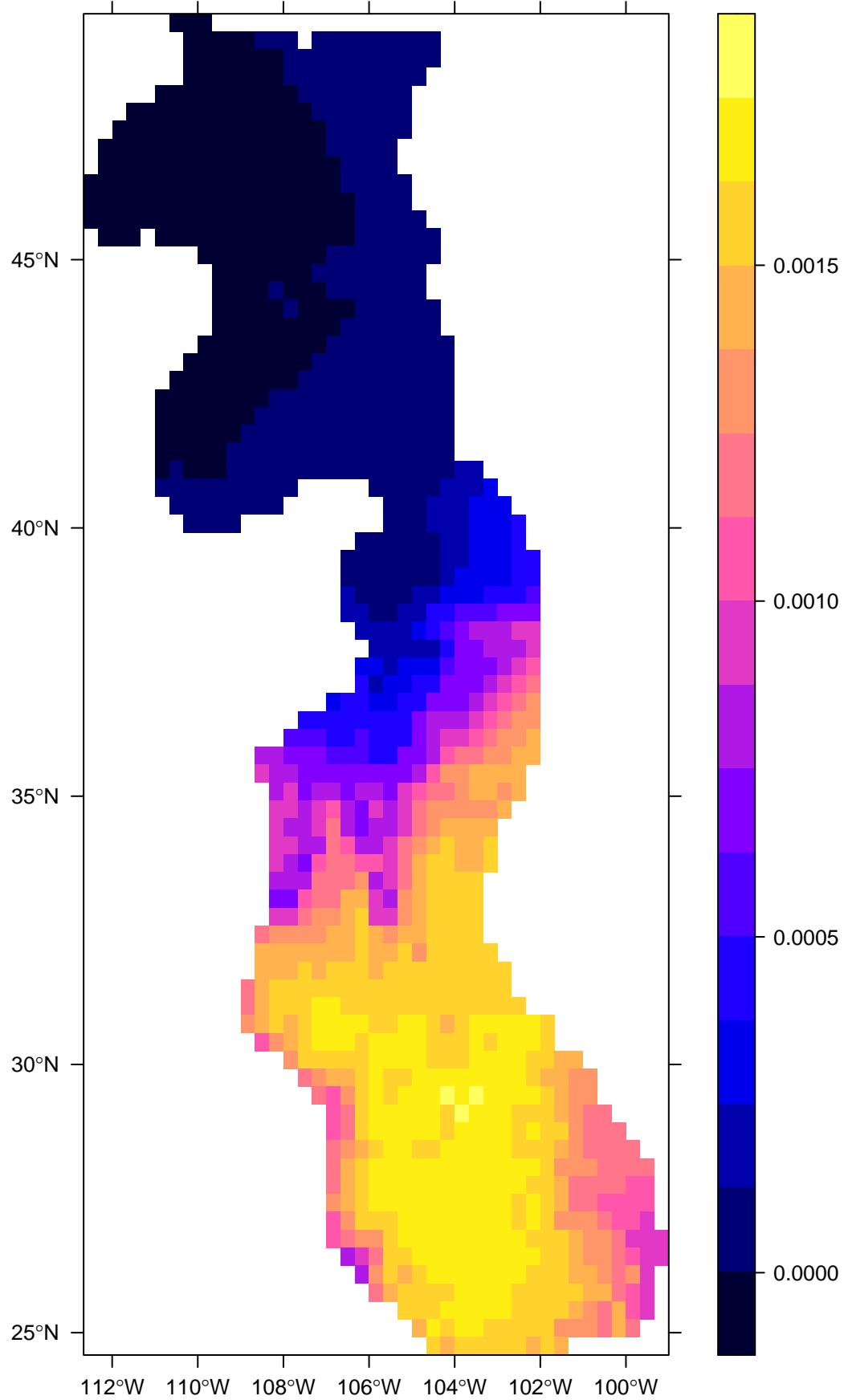
Probability Density Surface for juv_YR02_08



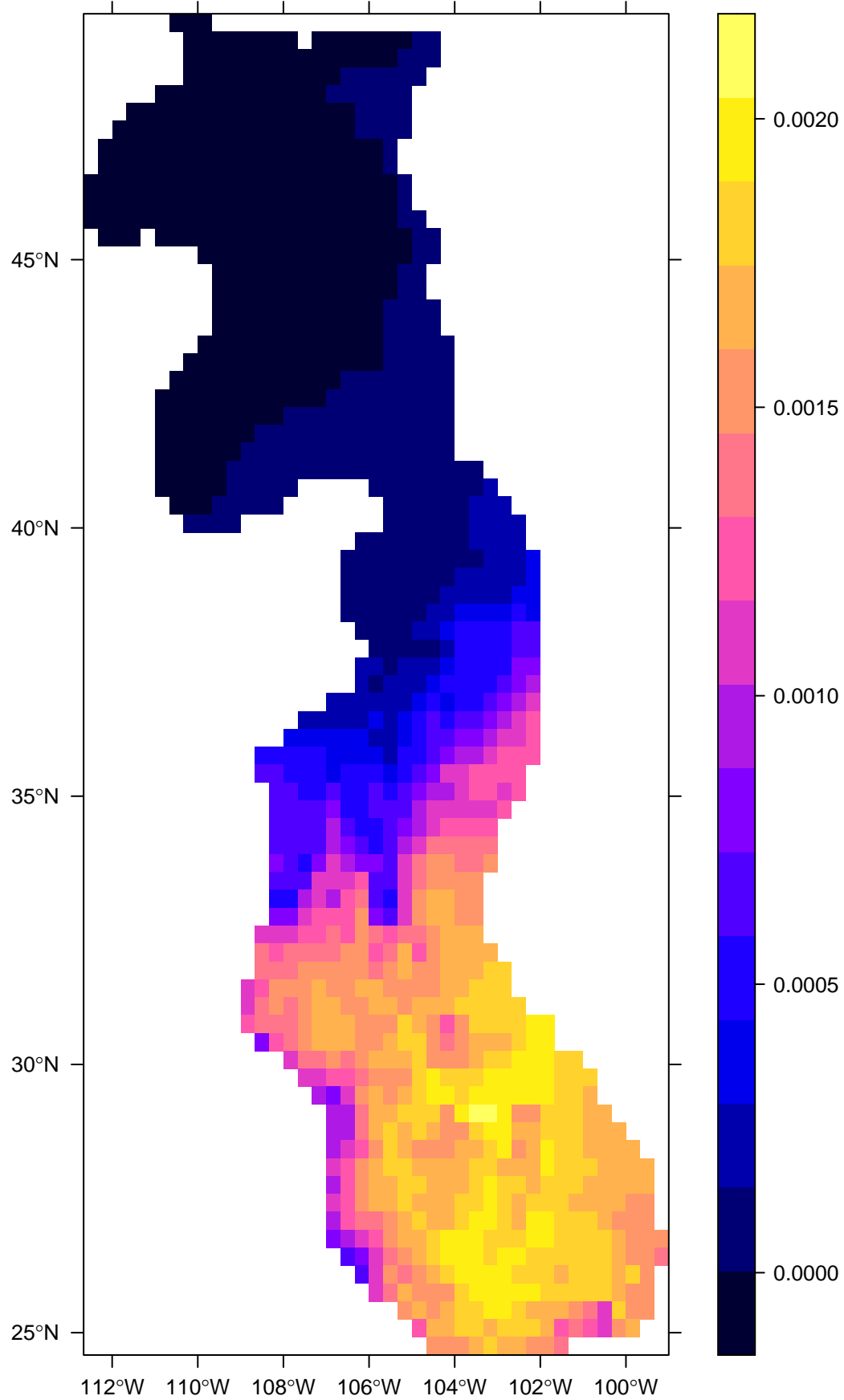
Probability Density Surface for juv_YR02_09



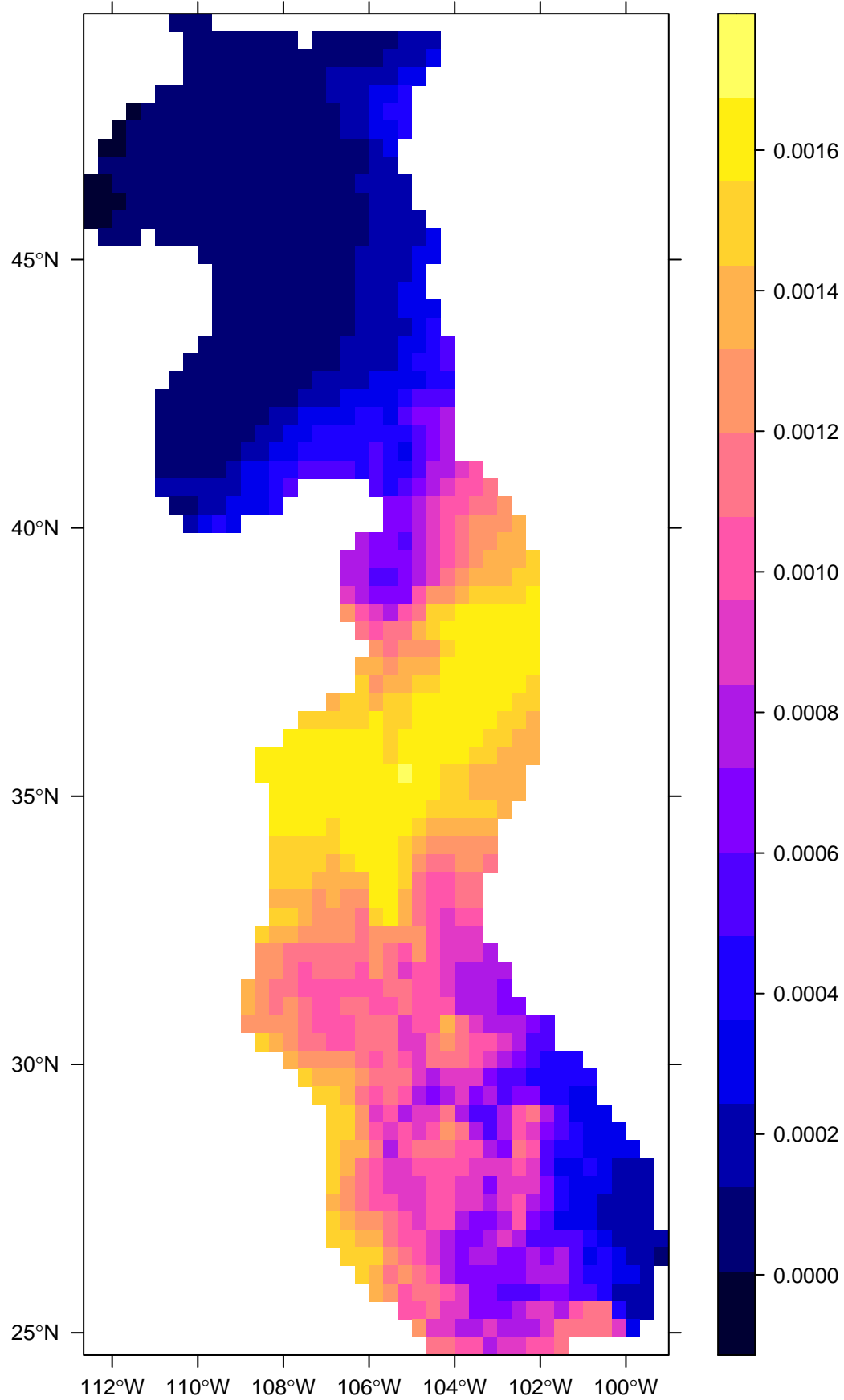
Probability Density Surface for juv_YR02_10



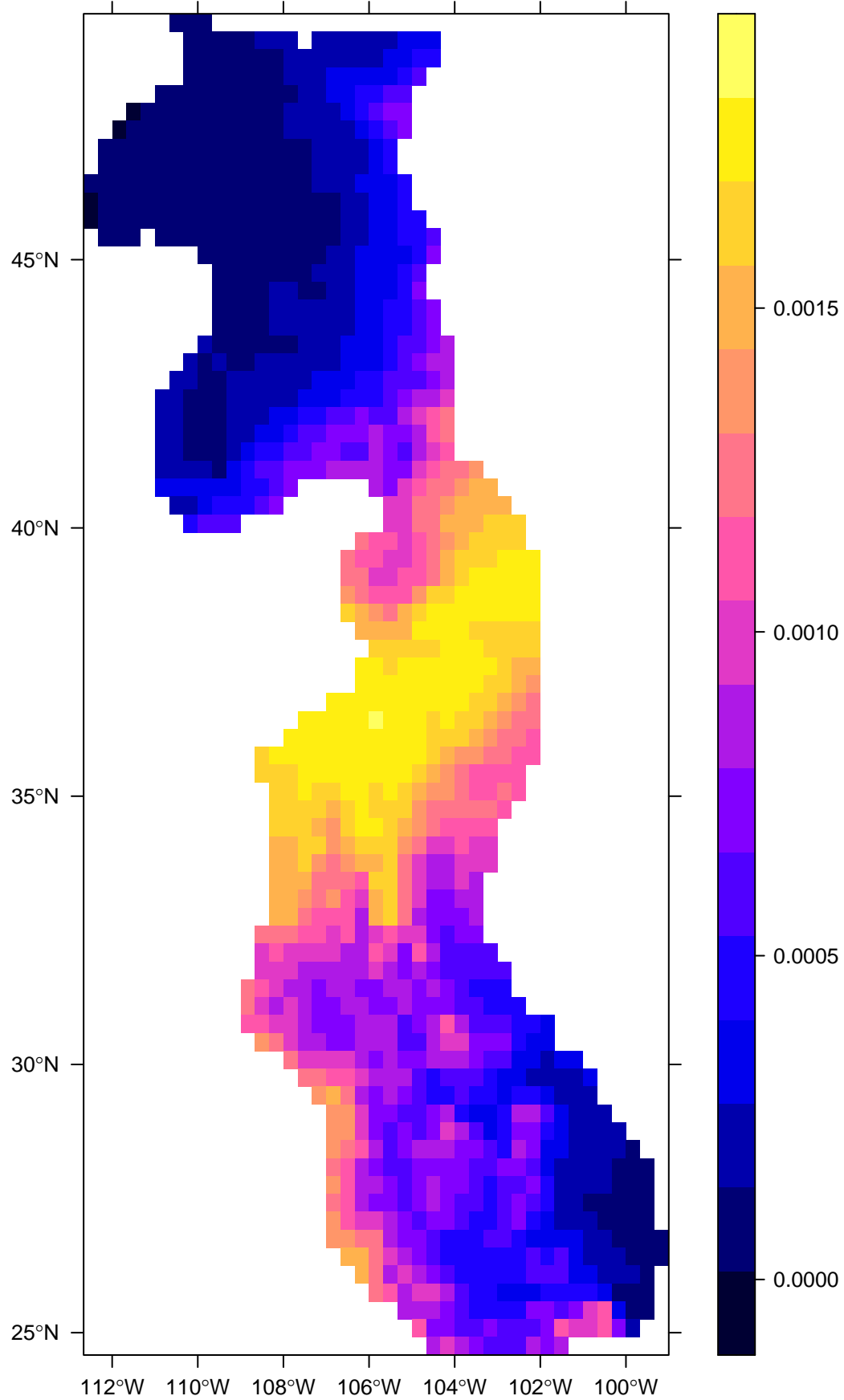
Probability Density Surface for juv_YR02_11



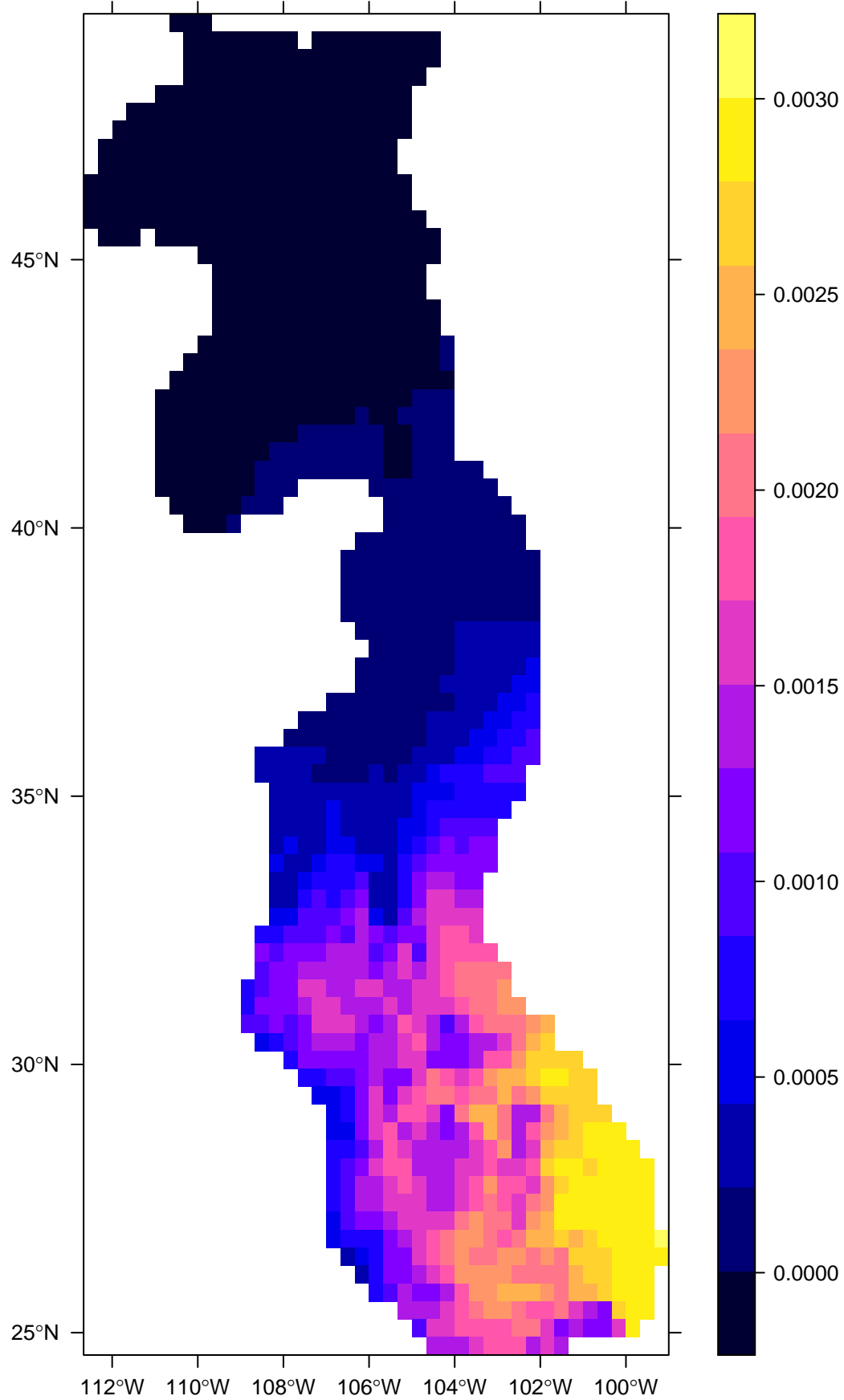
Probability Density Surface for juv_YR02_12



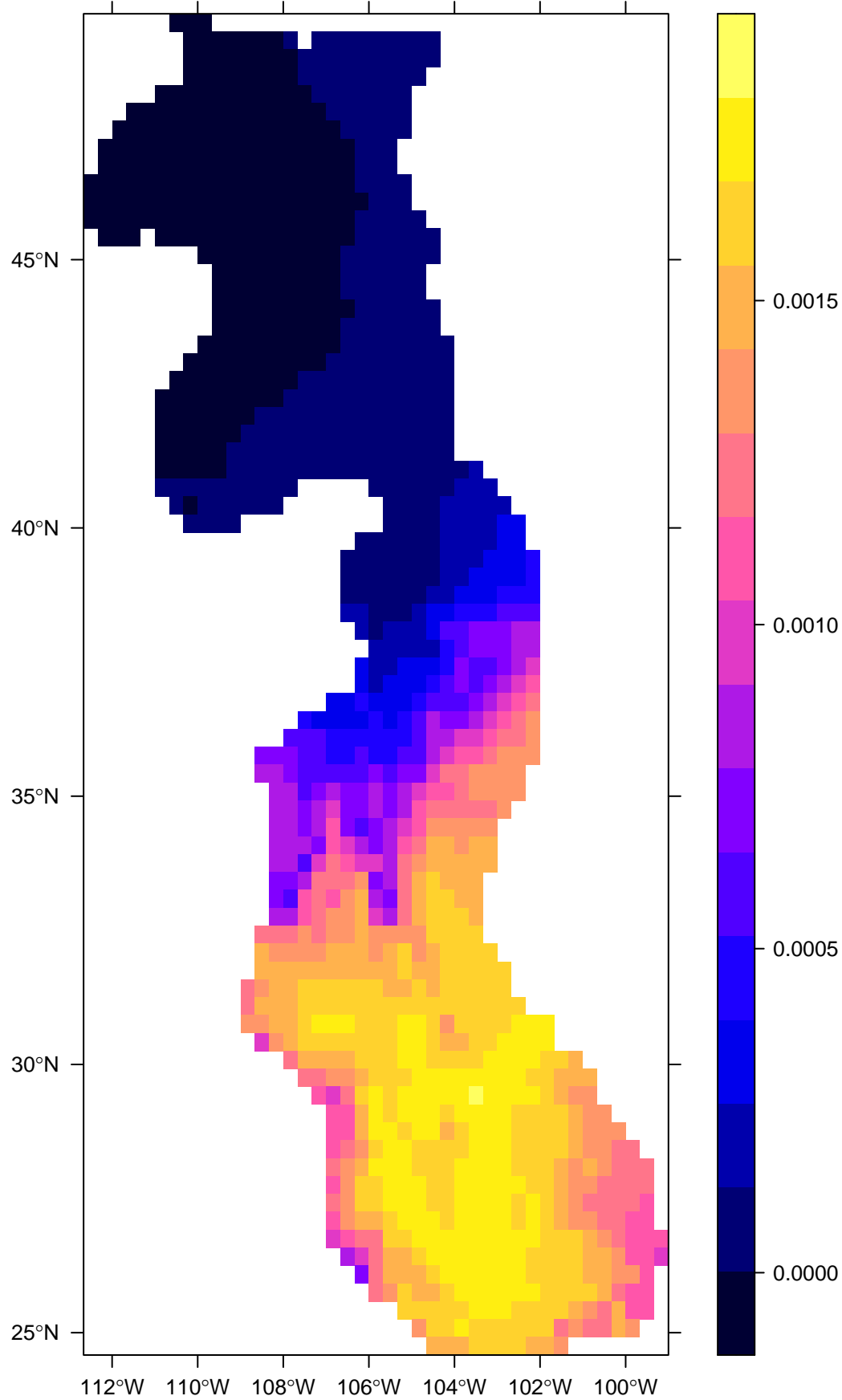
Probability Density Surface for juv_YR02_13



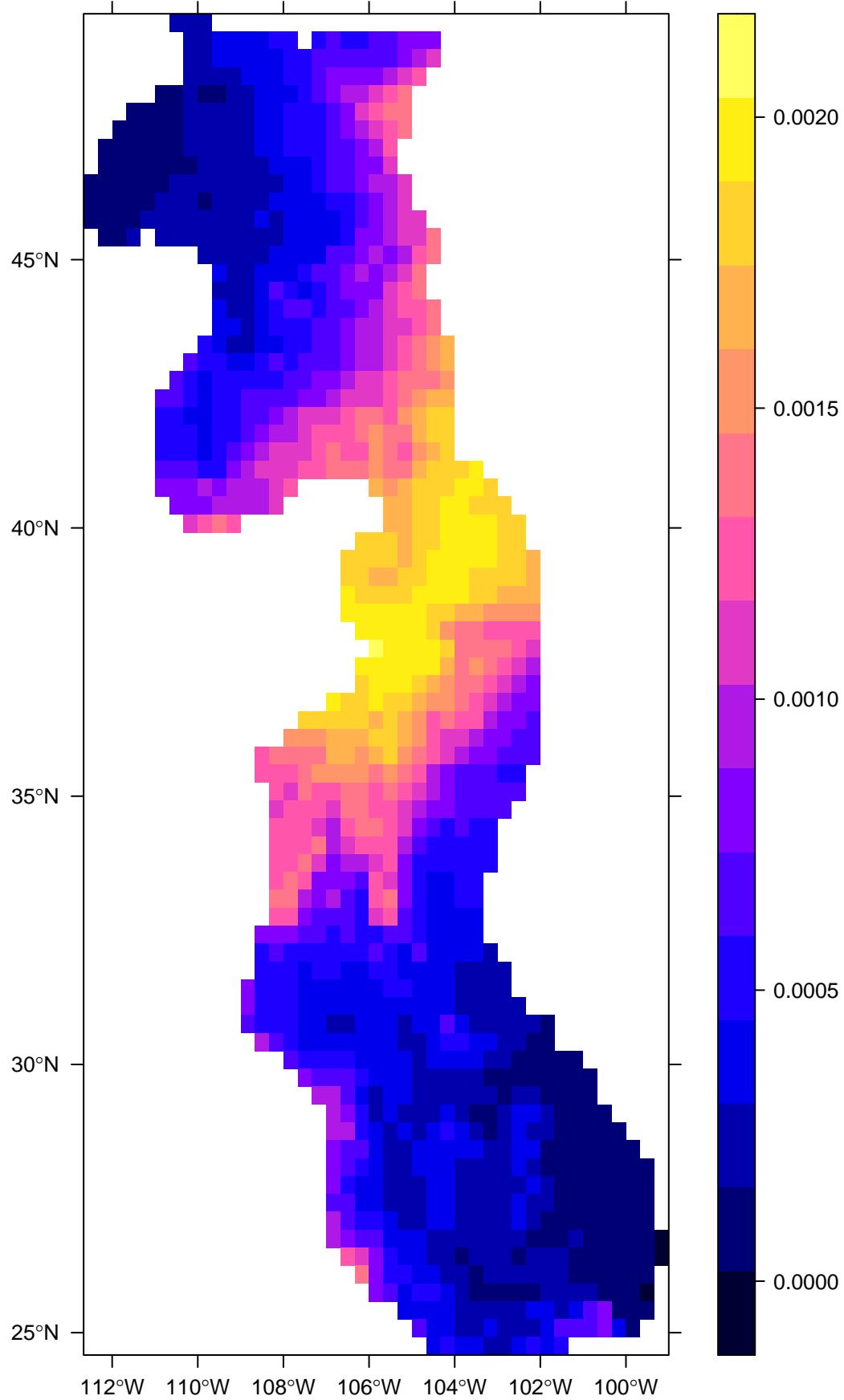
Probability Density Surface for juv_YR02_14



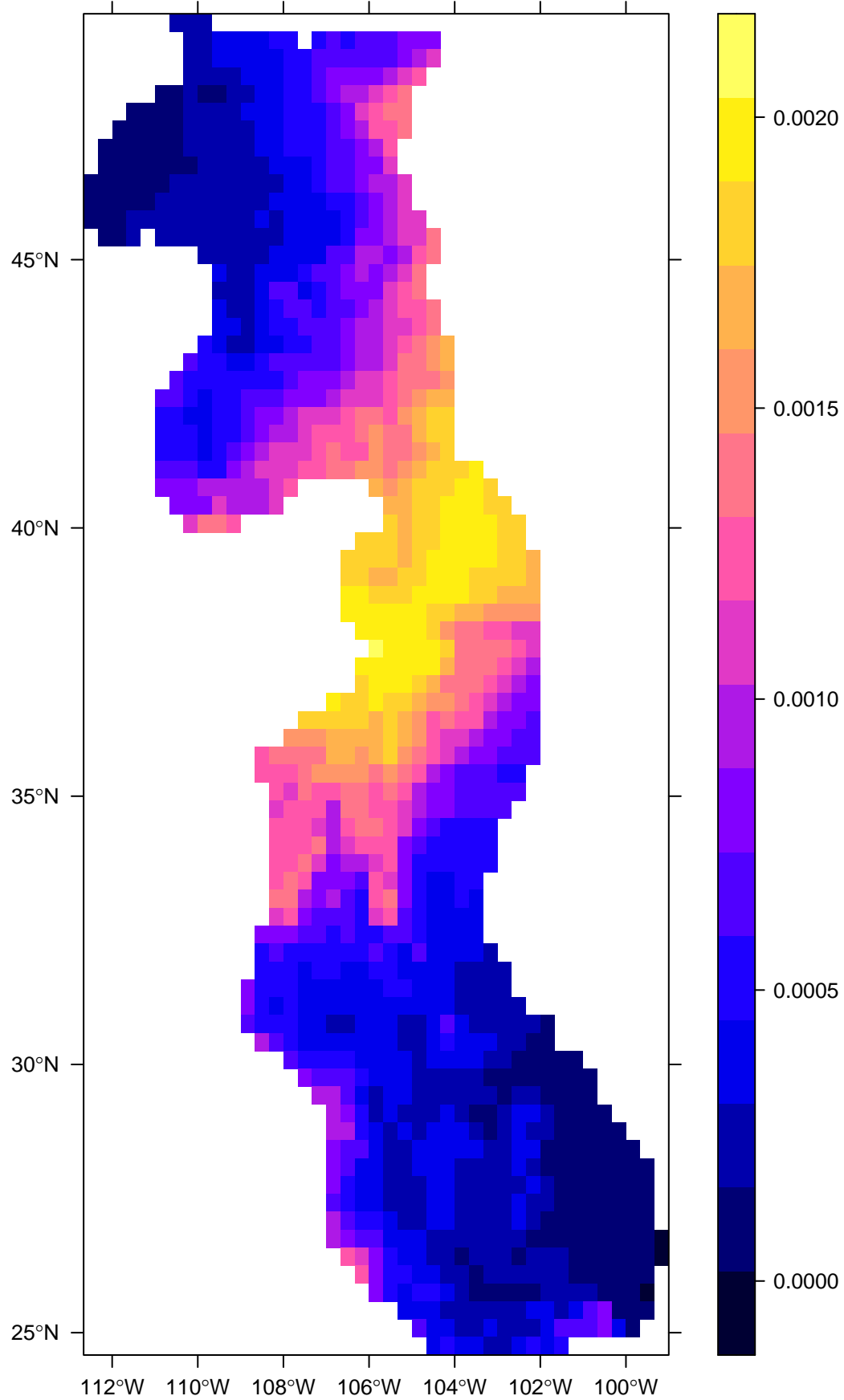
Probability Density Surface for juv_YR02_15



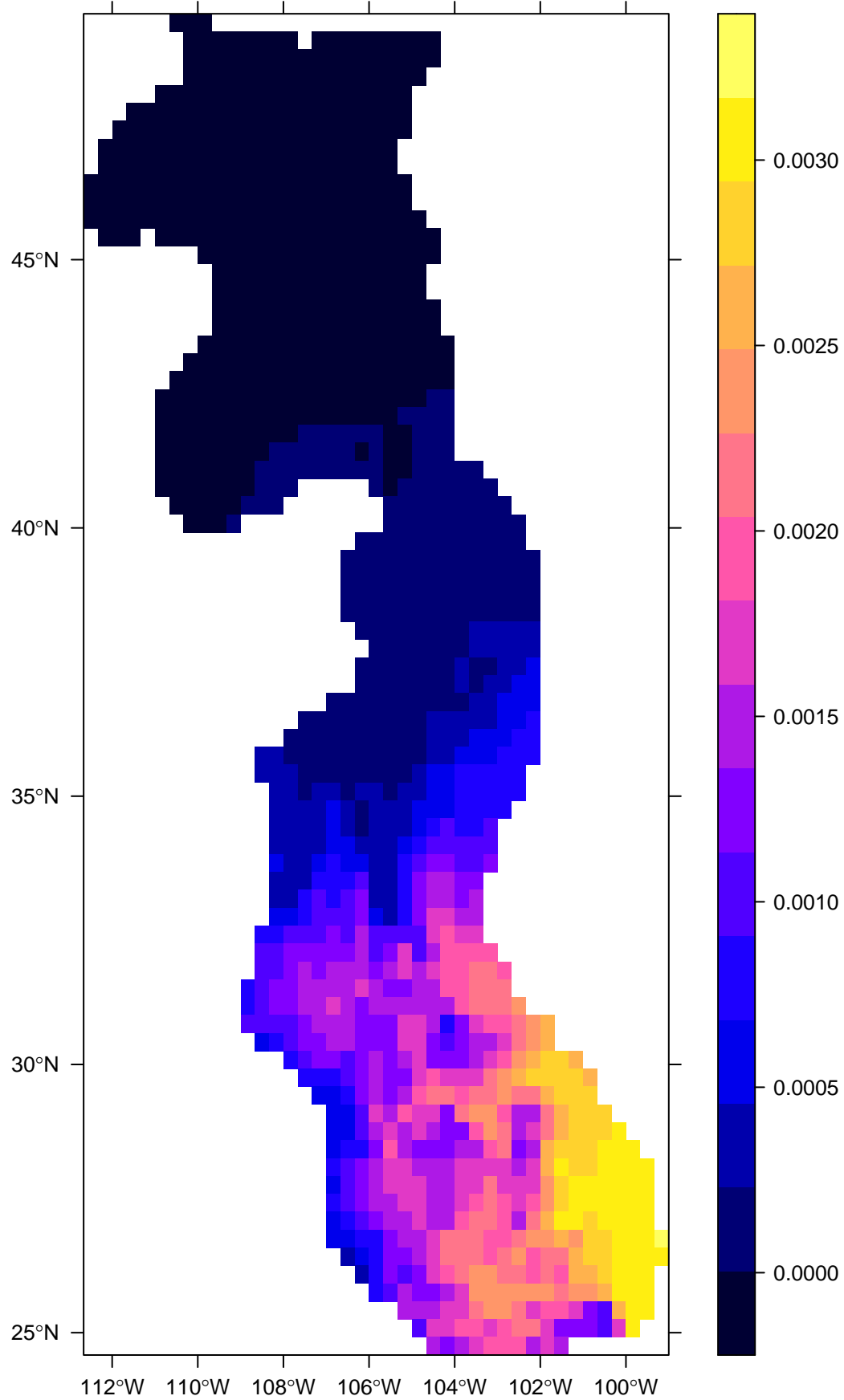
Probability Density Surface for juv_YR02_16



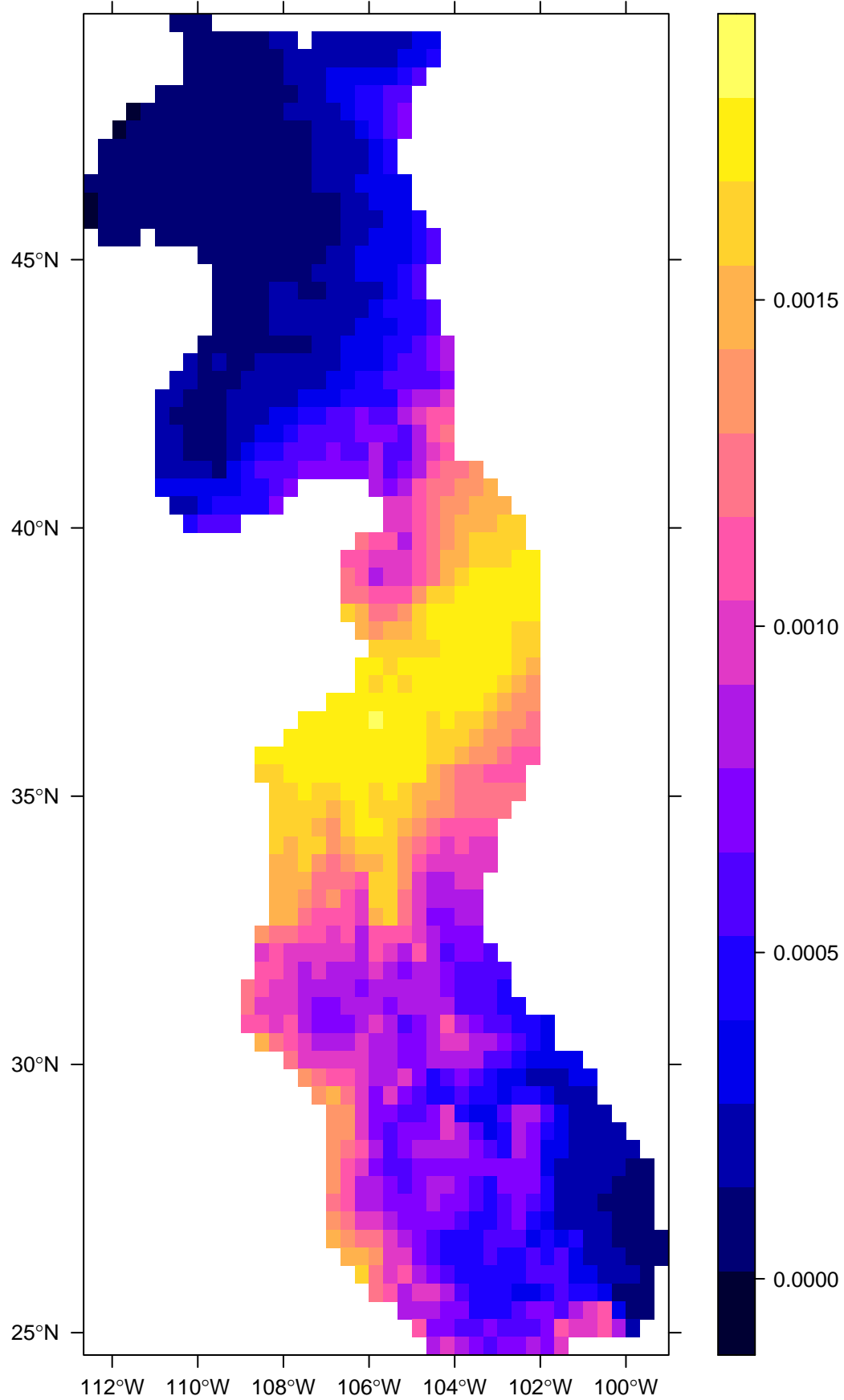
Probability Density Surface for juv_YR02_17



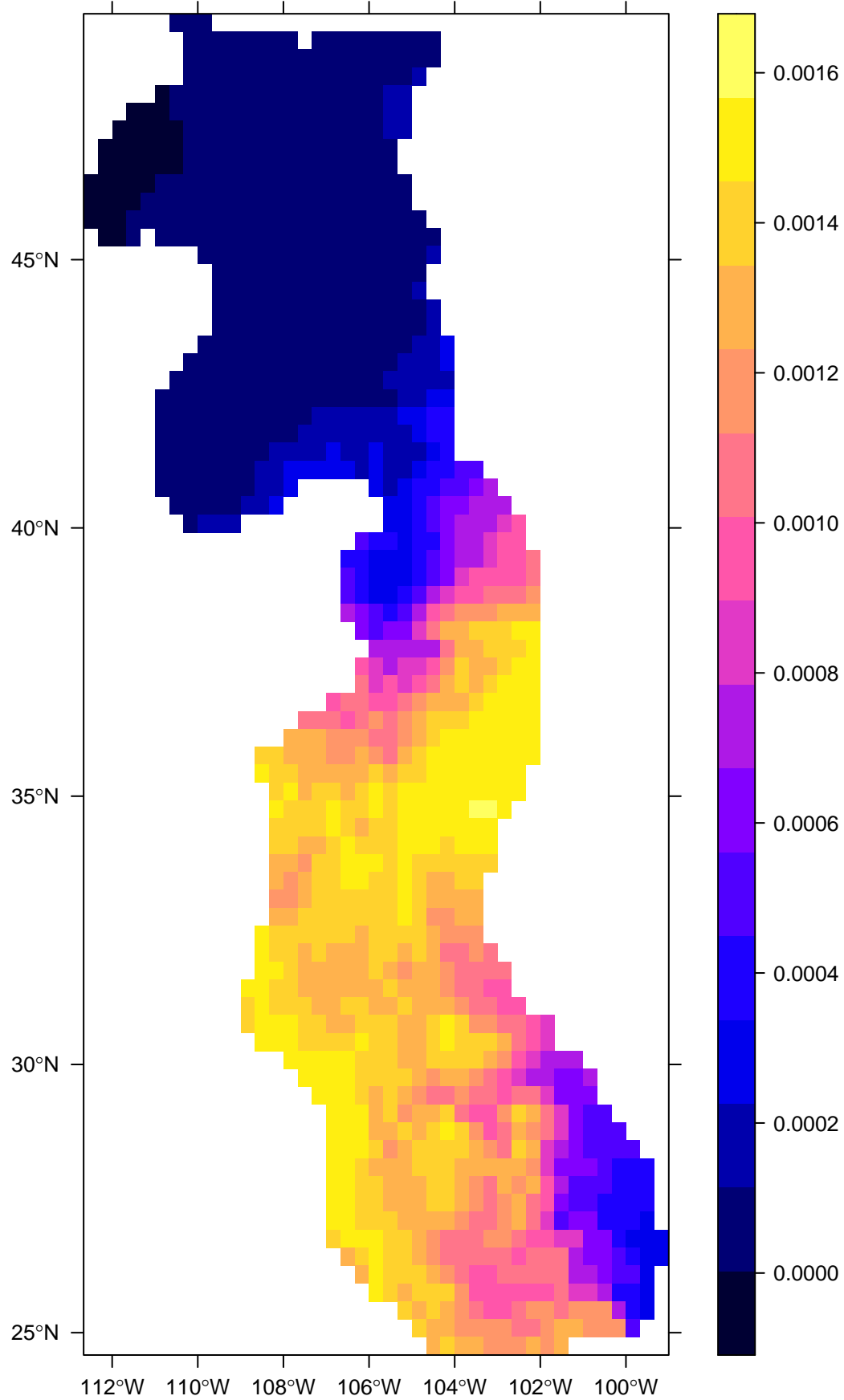
Probability Density Surface for juv_YR02_18



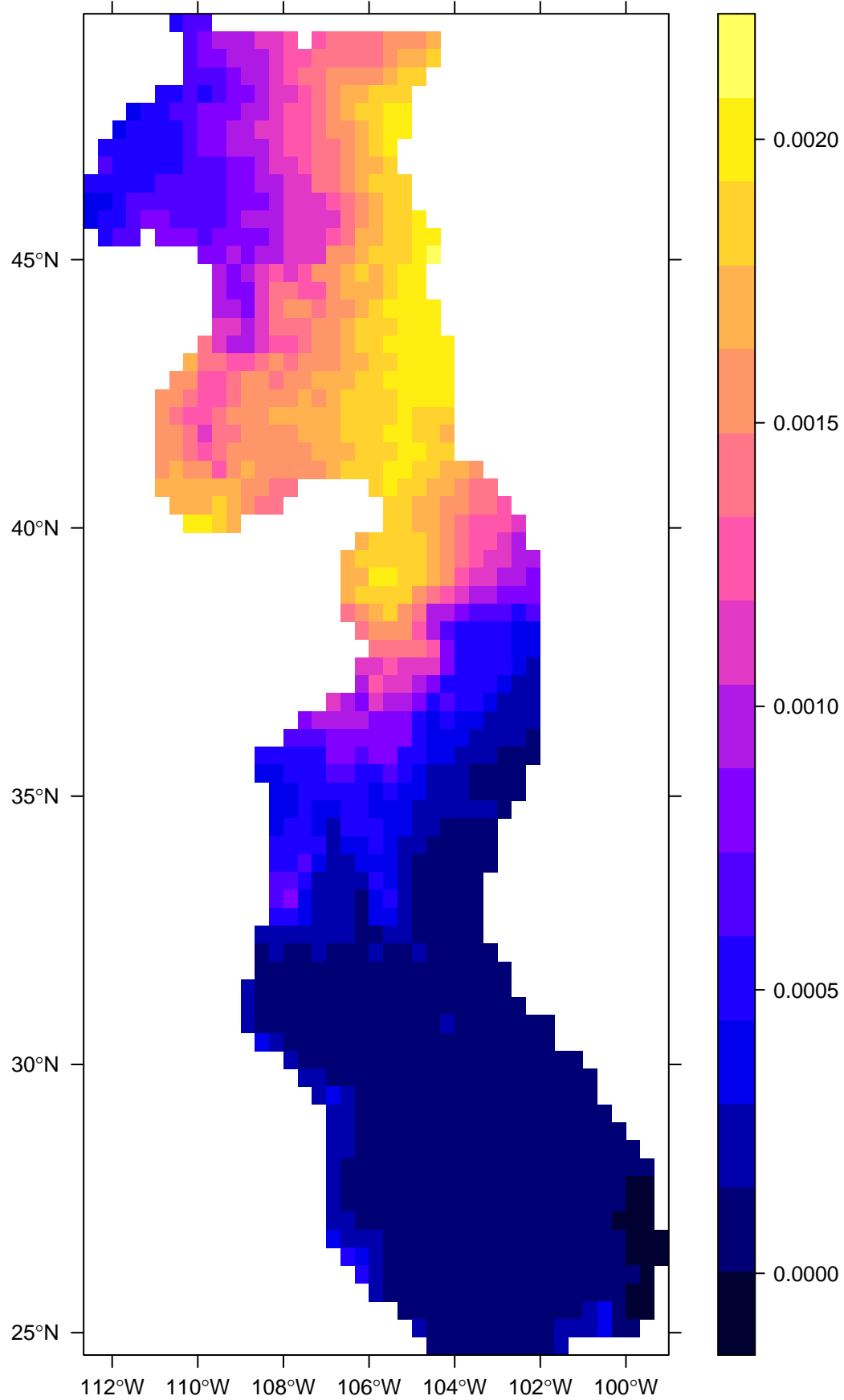
Probability Density Surface for juv_YR02_19



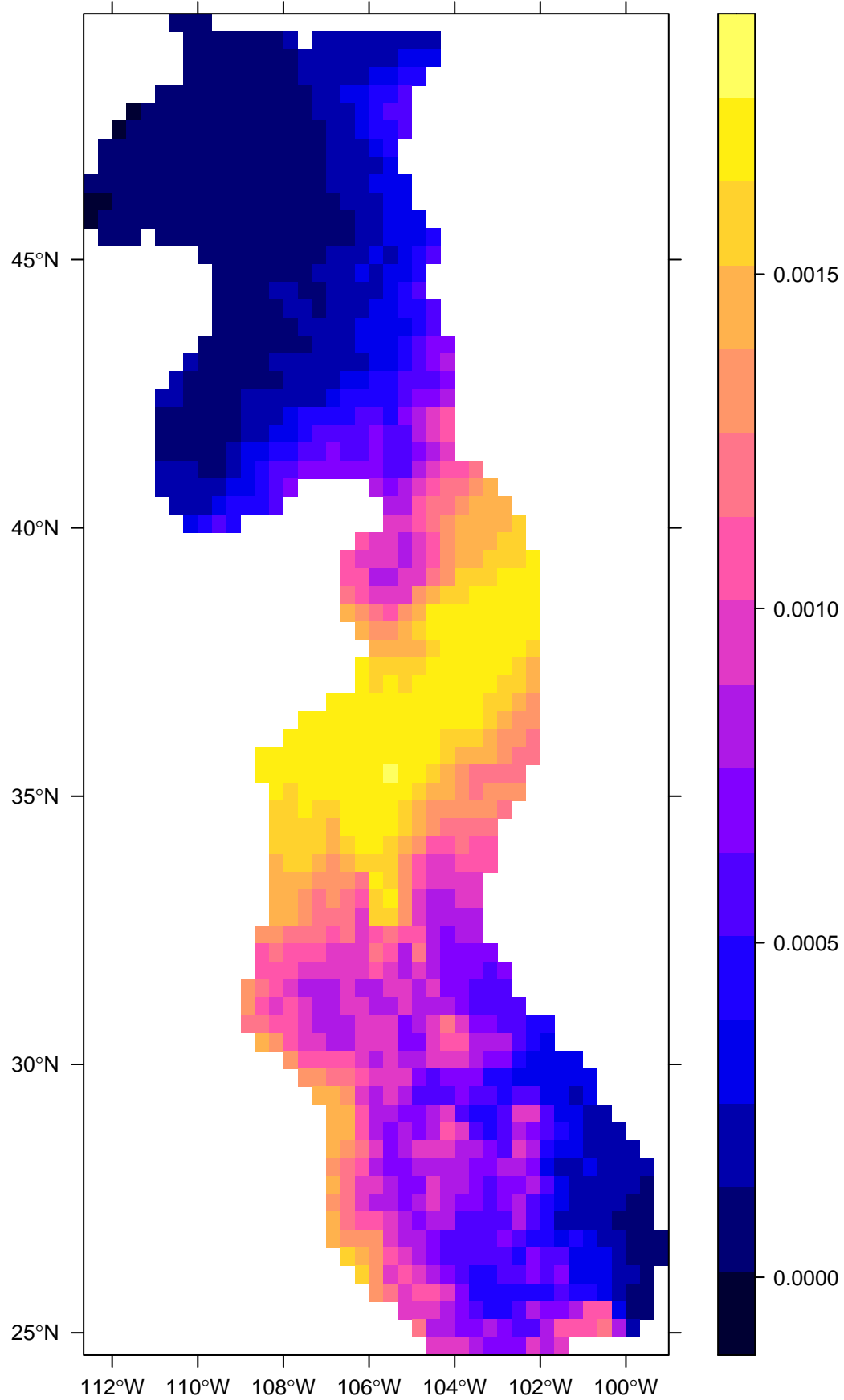
Probability Density Surface for juv_YR02_20



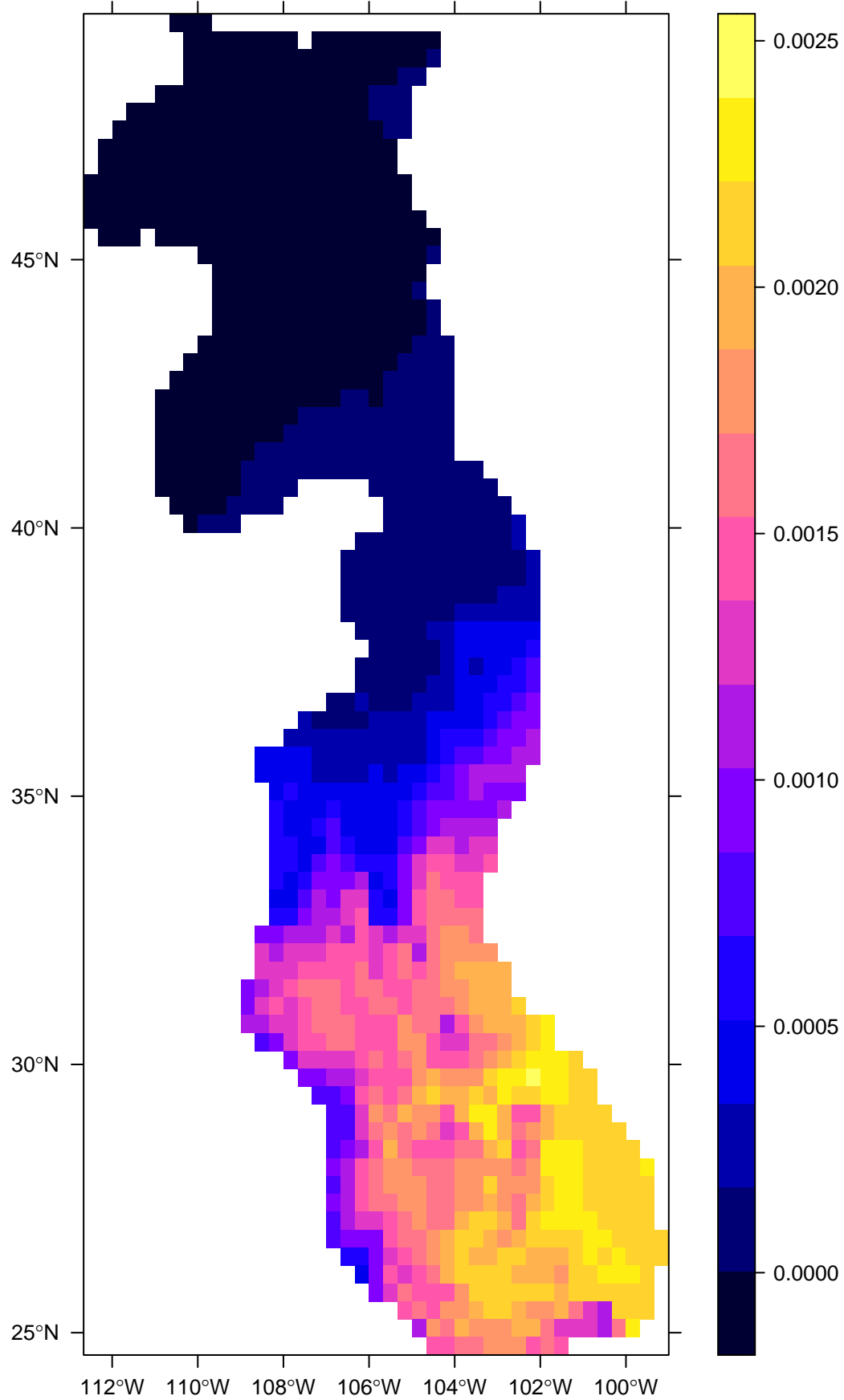
Probability Density Surface for juv_YR02_21



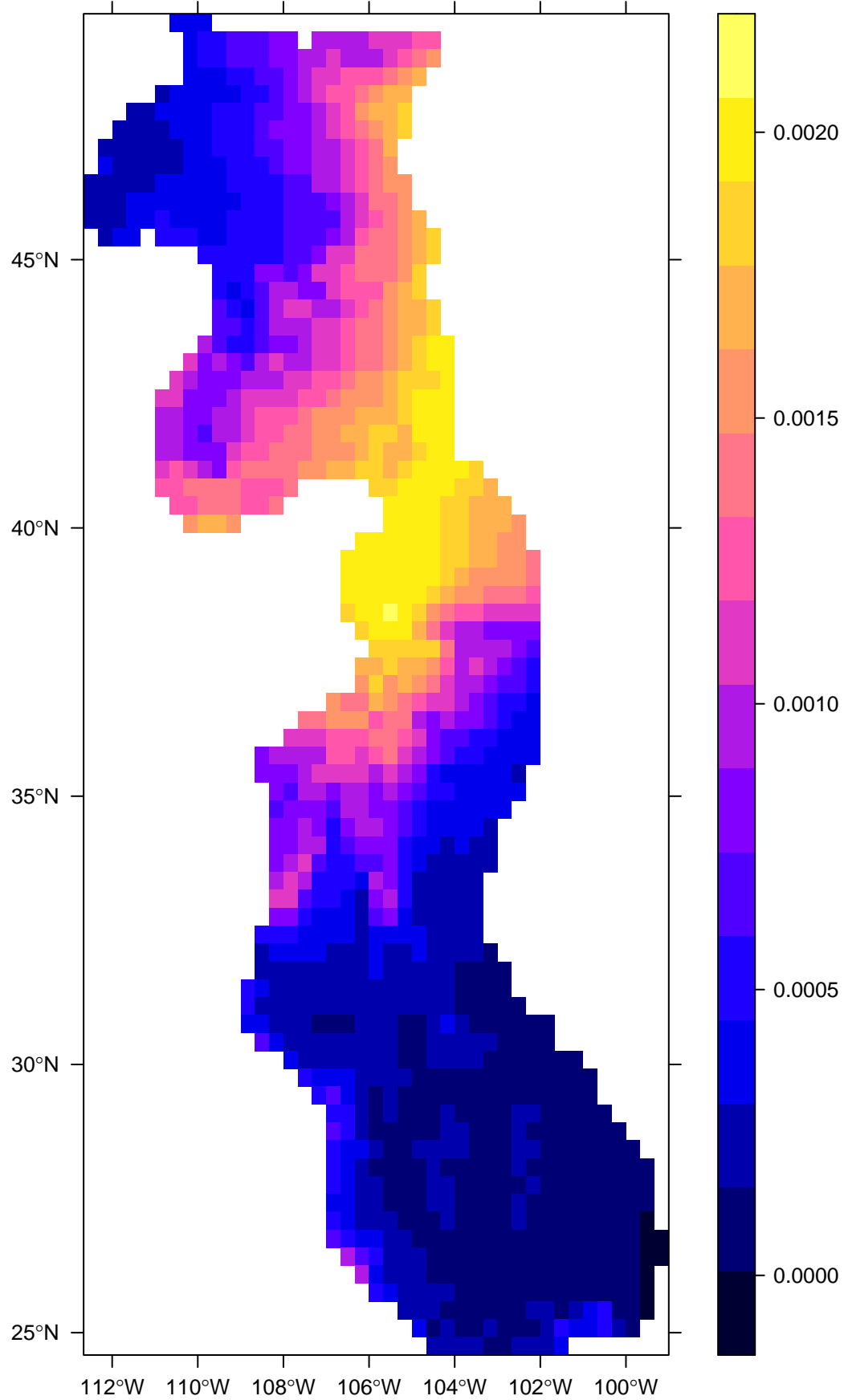
Probability Density Surface for juv_YR02_22



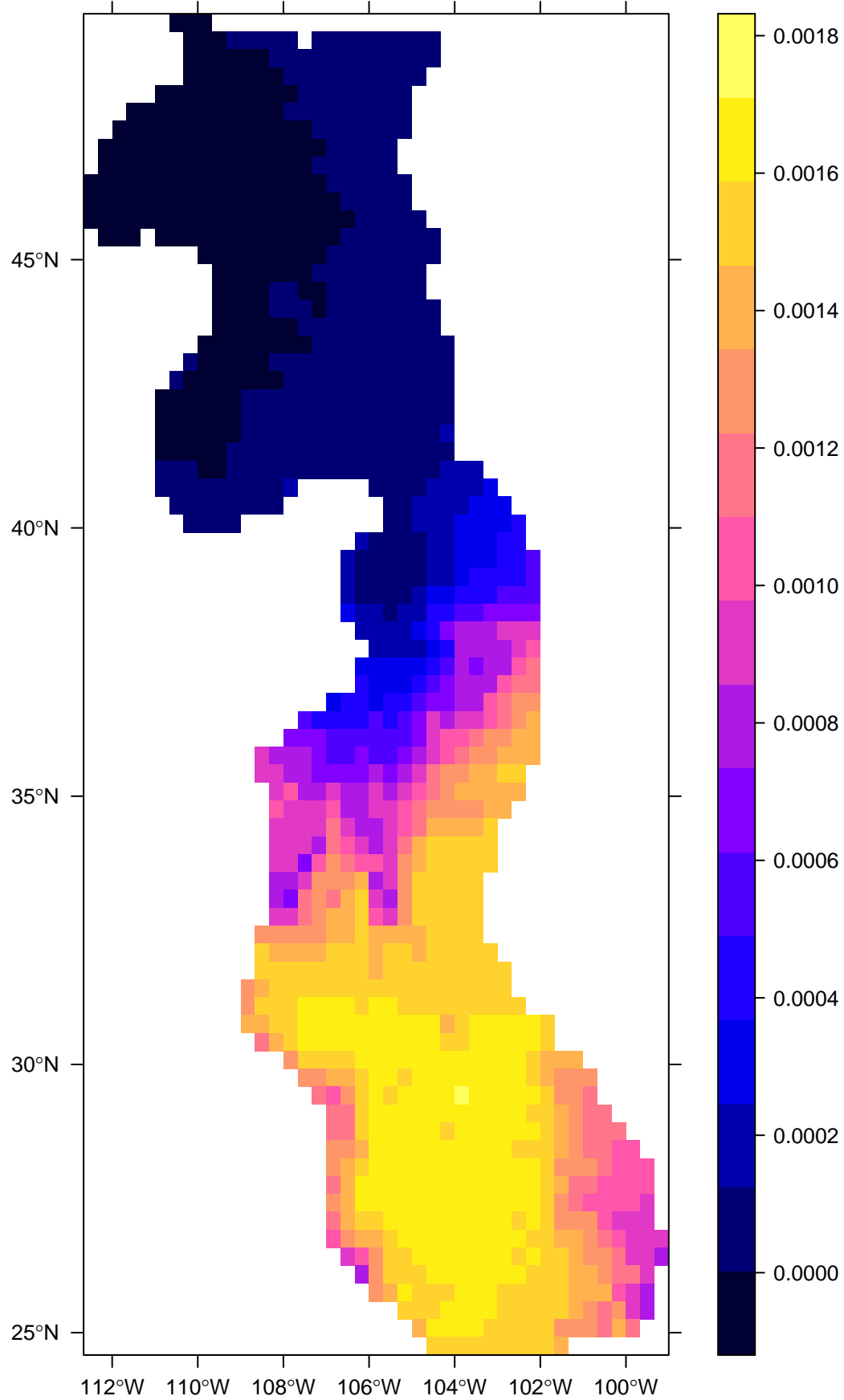
Probability Density Surface for juv_YR02_23



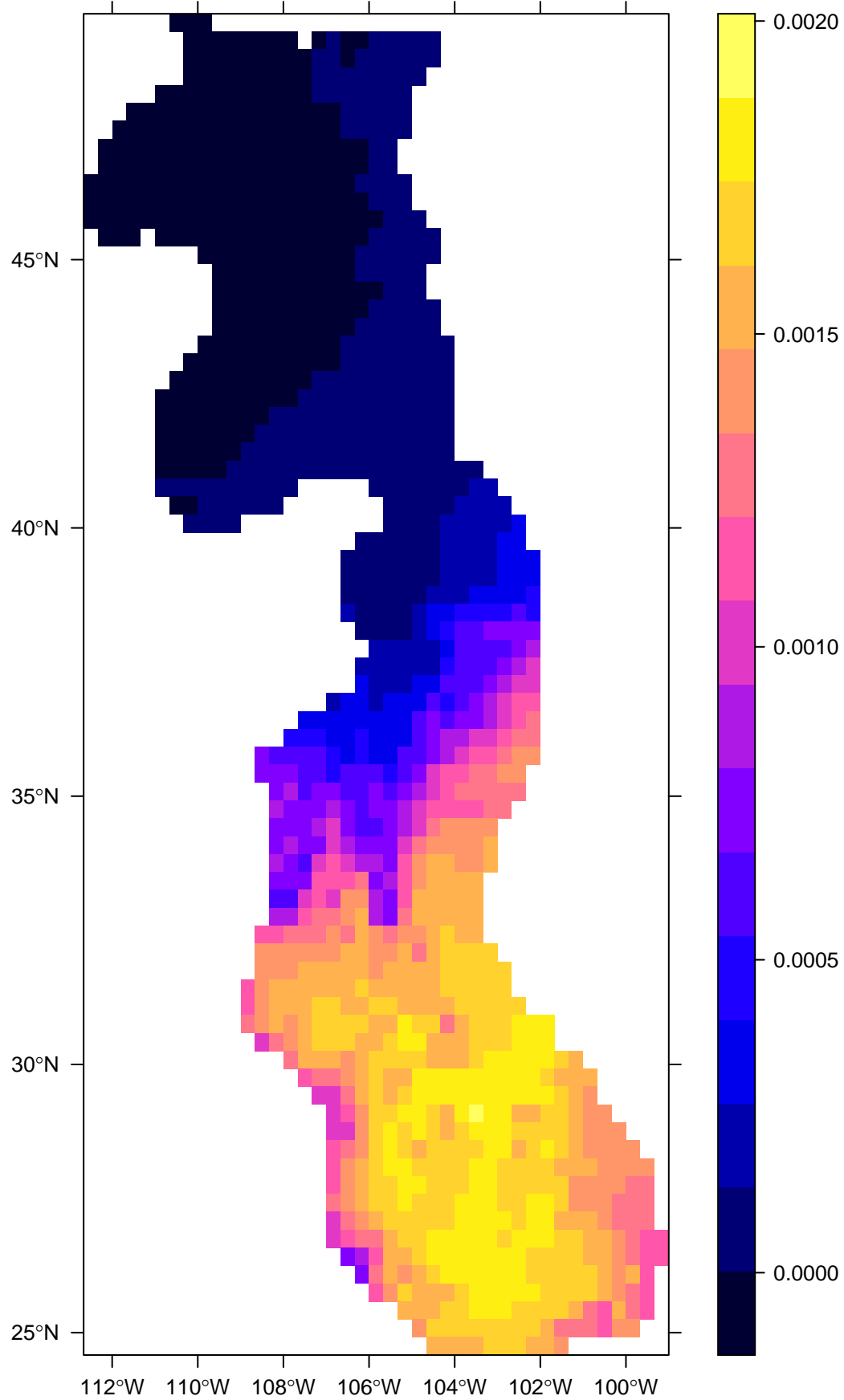
Probability Density Surface for juv_YR02_24



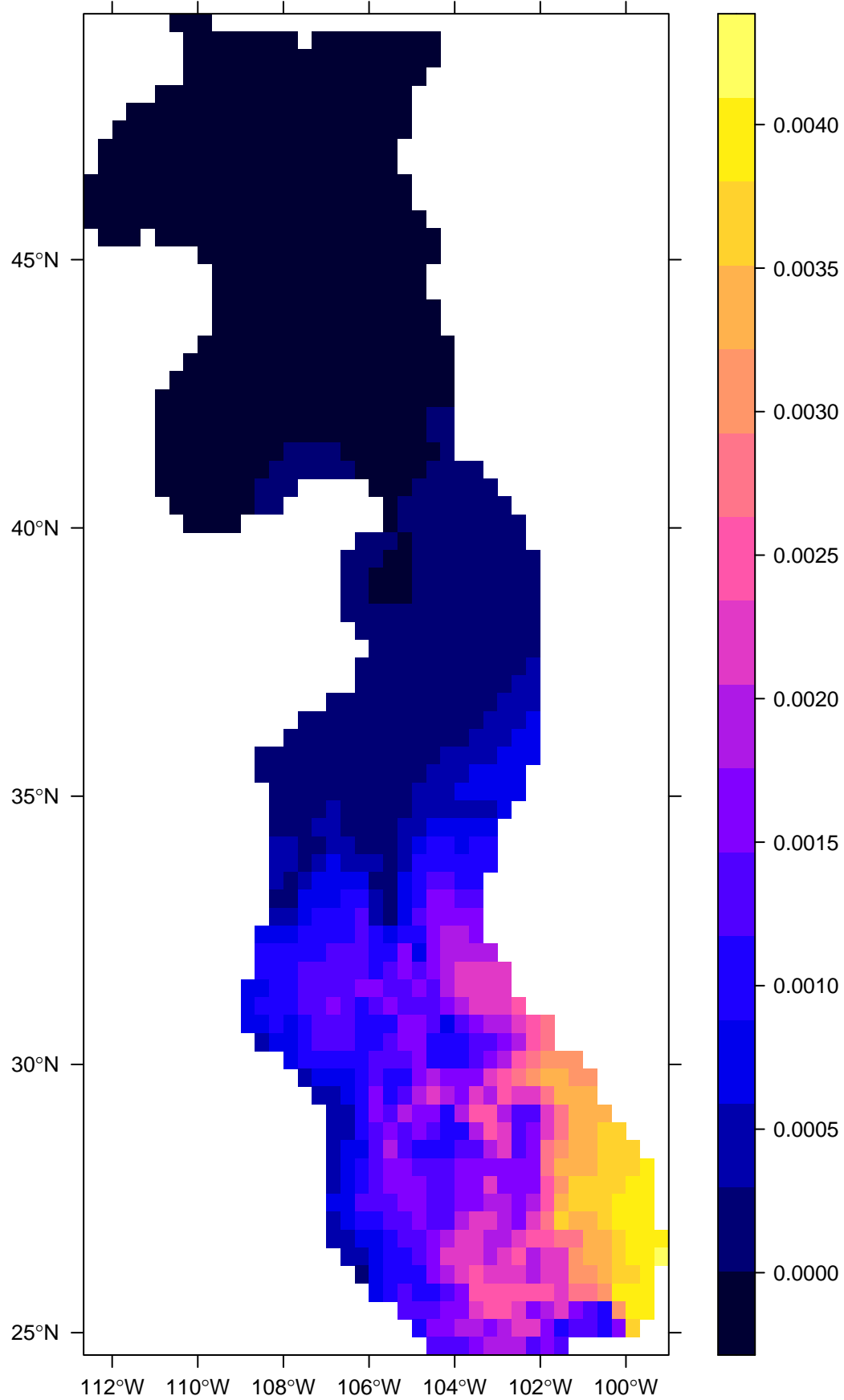
Probability Density Surface for juv_YR02_25



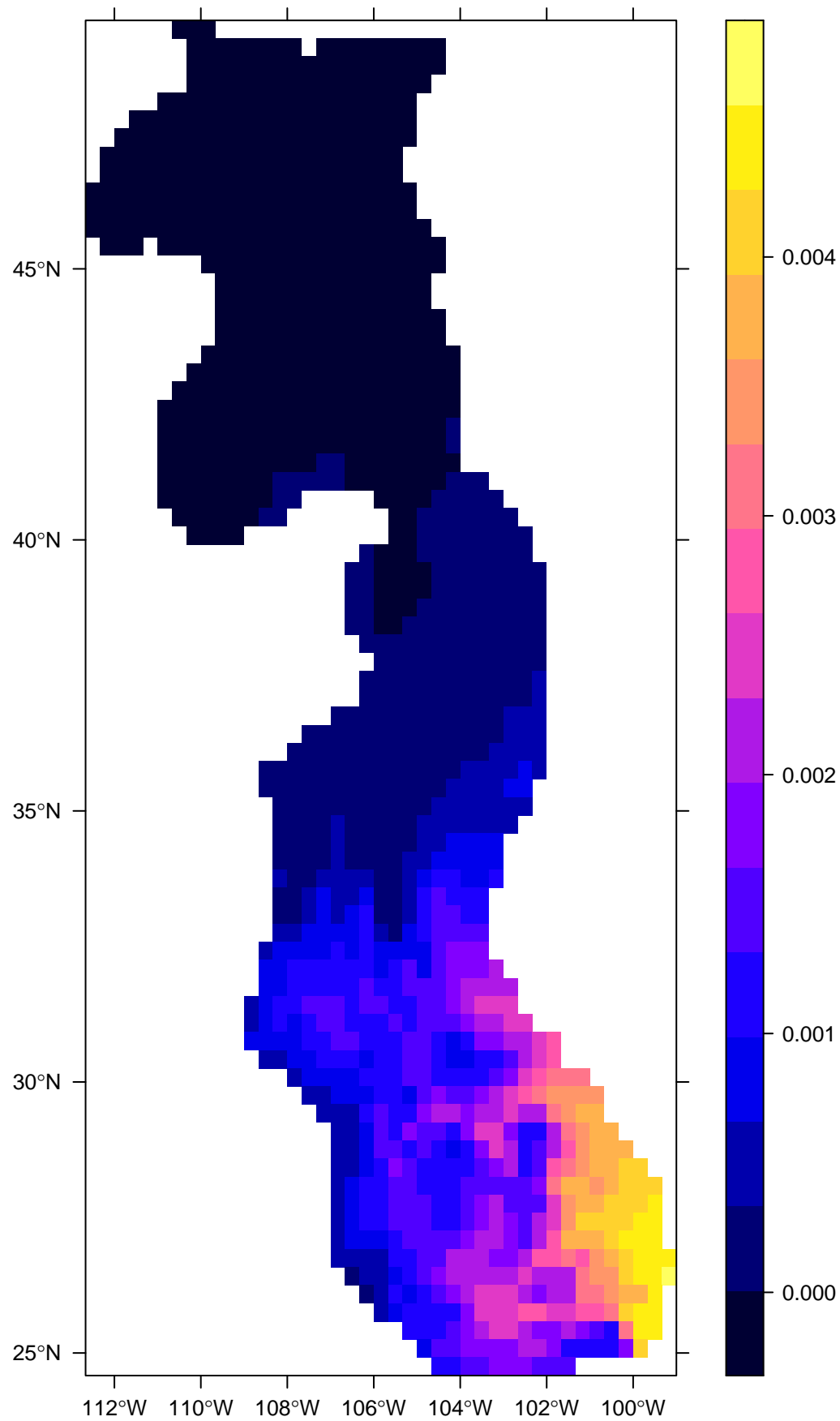
Probability Density Surface for juv_YR02_26



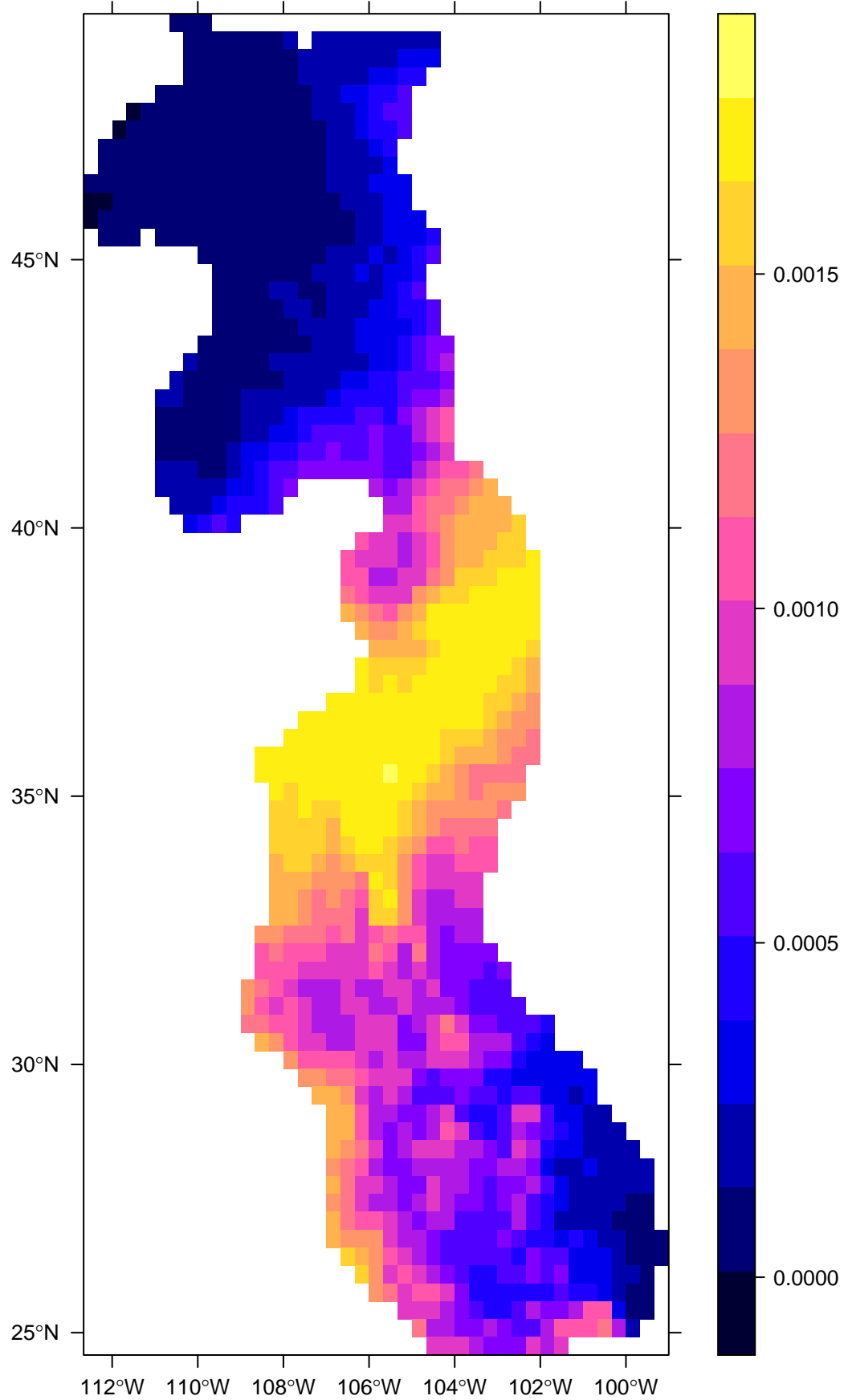
Probability Density Surface for juv_YR02_27



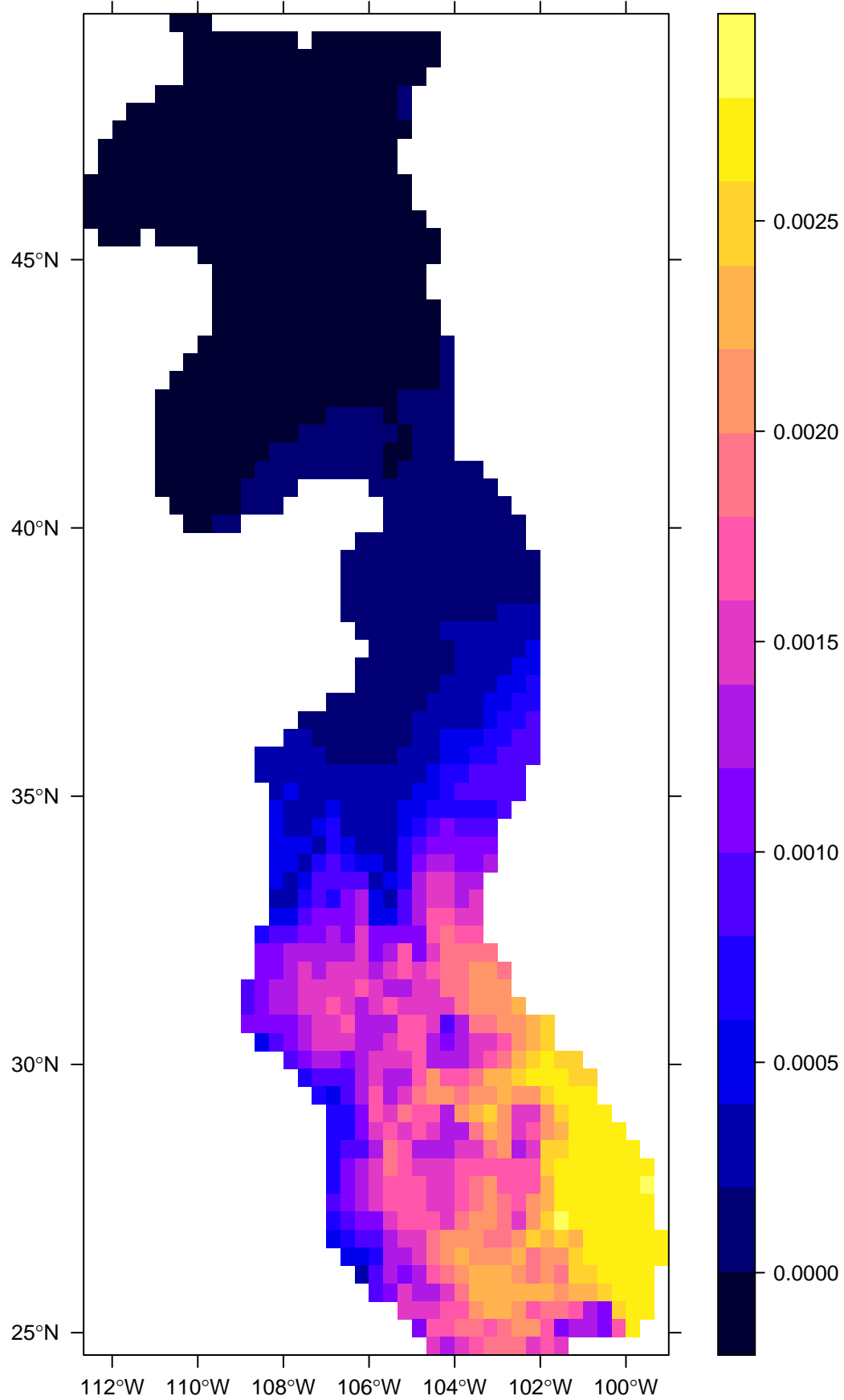
Probability Density Surface for juv_YR02_28



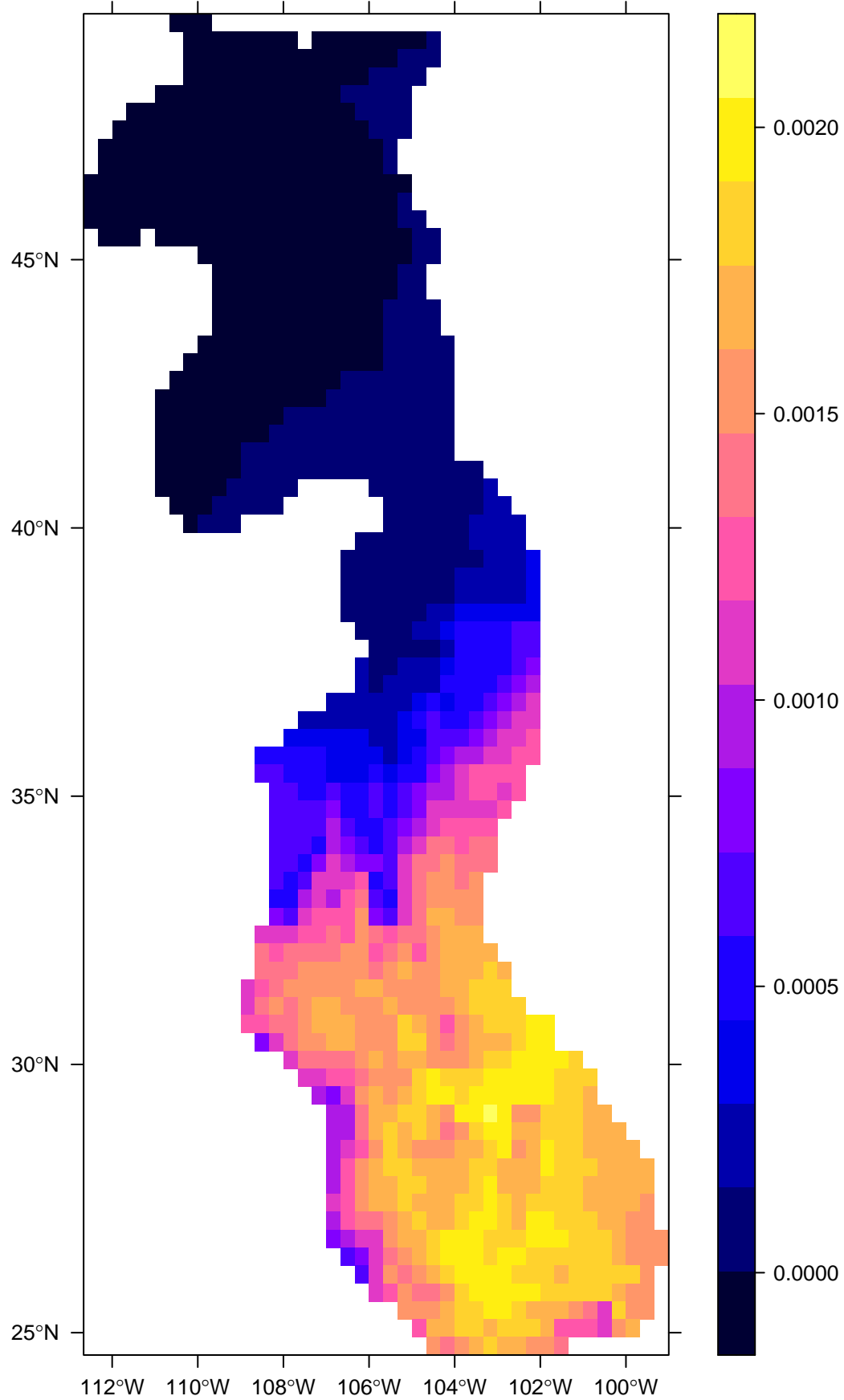
Probability Density Surface for juv_YR02_29



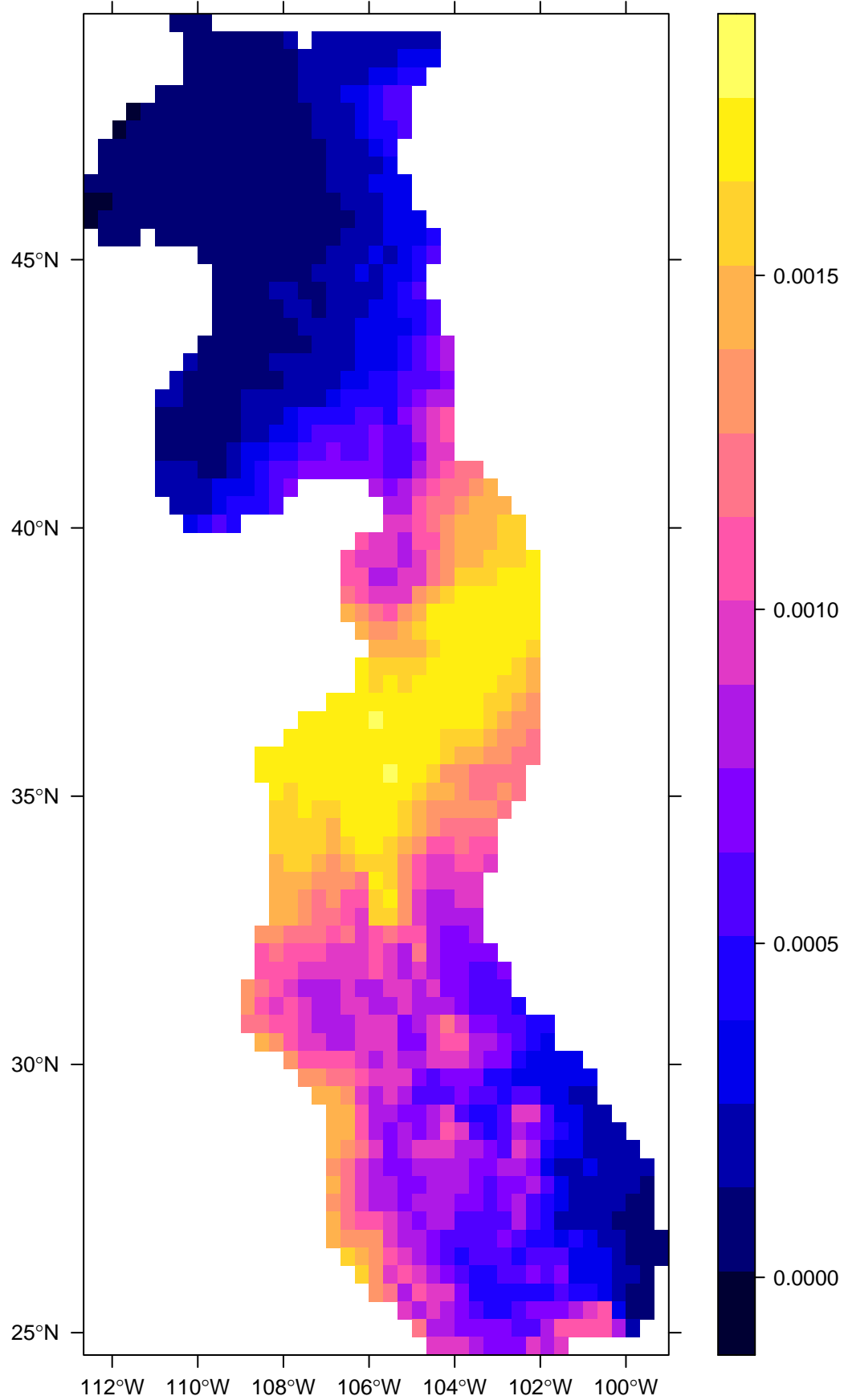
Probability Density Surface for juv_YR02_30



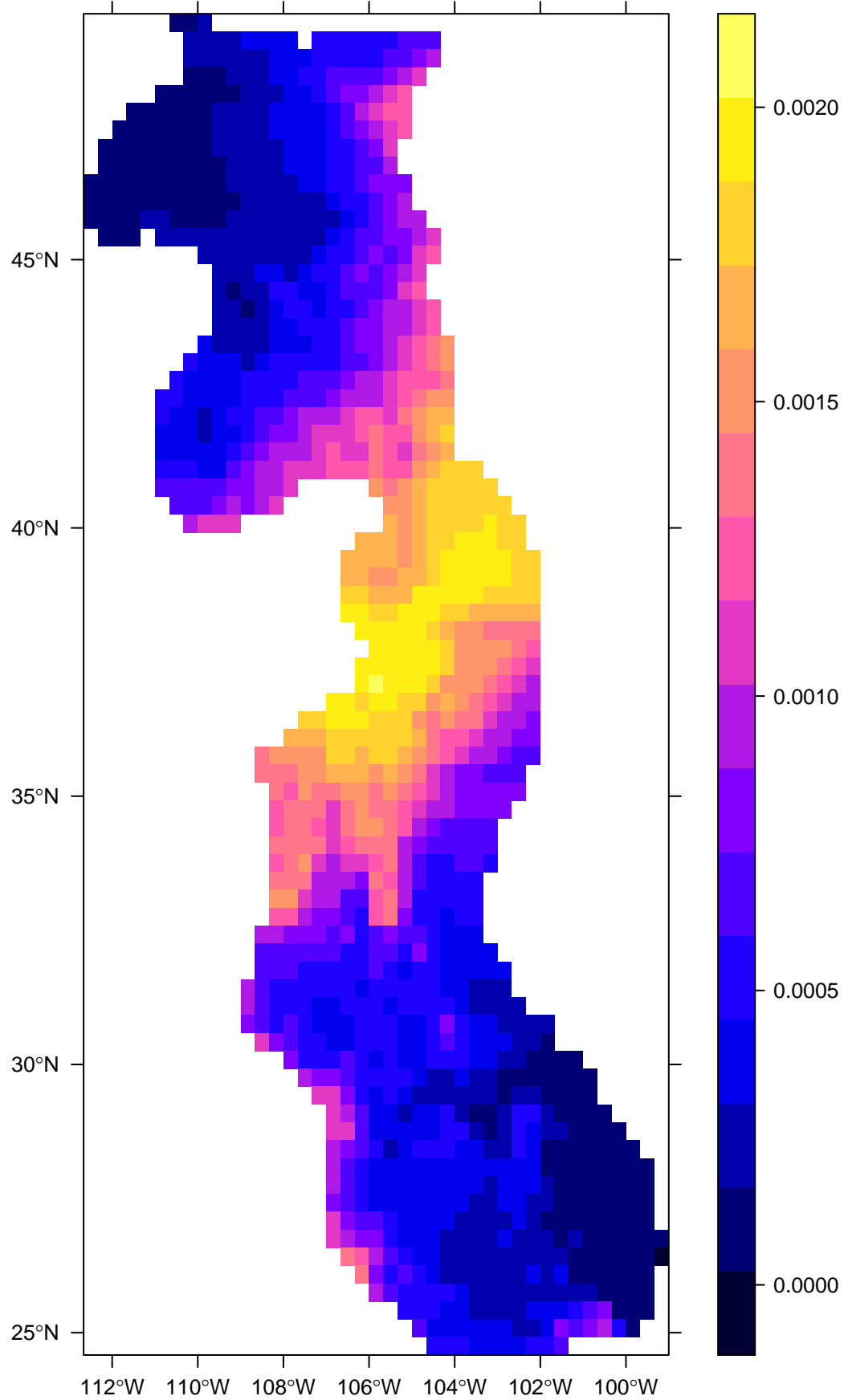
Probability Density Surface for juv_YR02_31



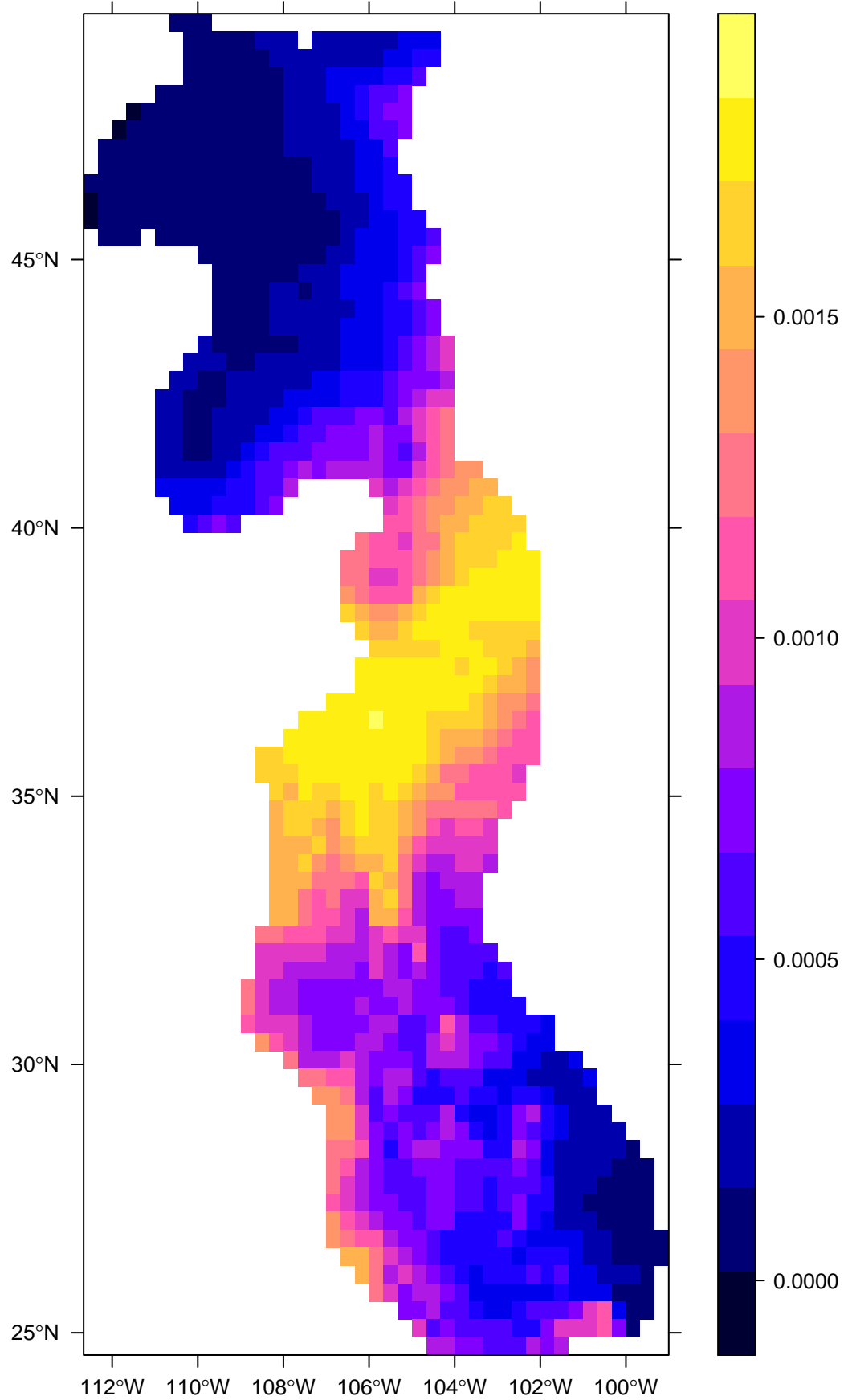
Probability Density Surface for juv_YR02_32



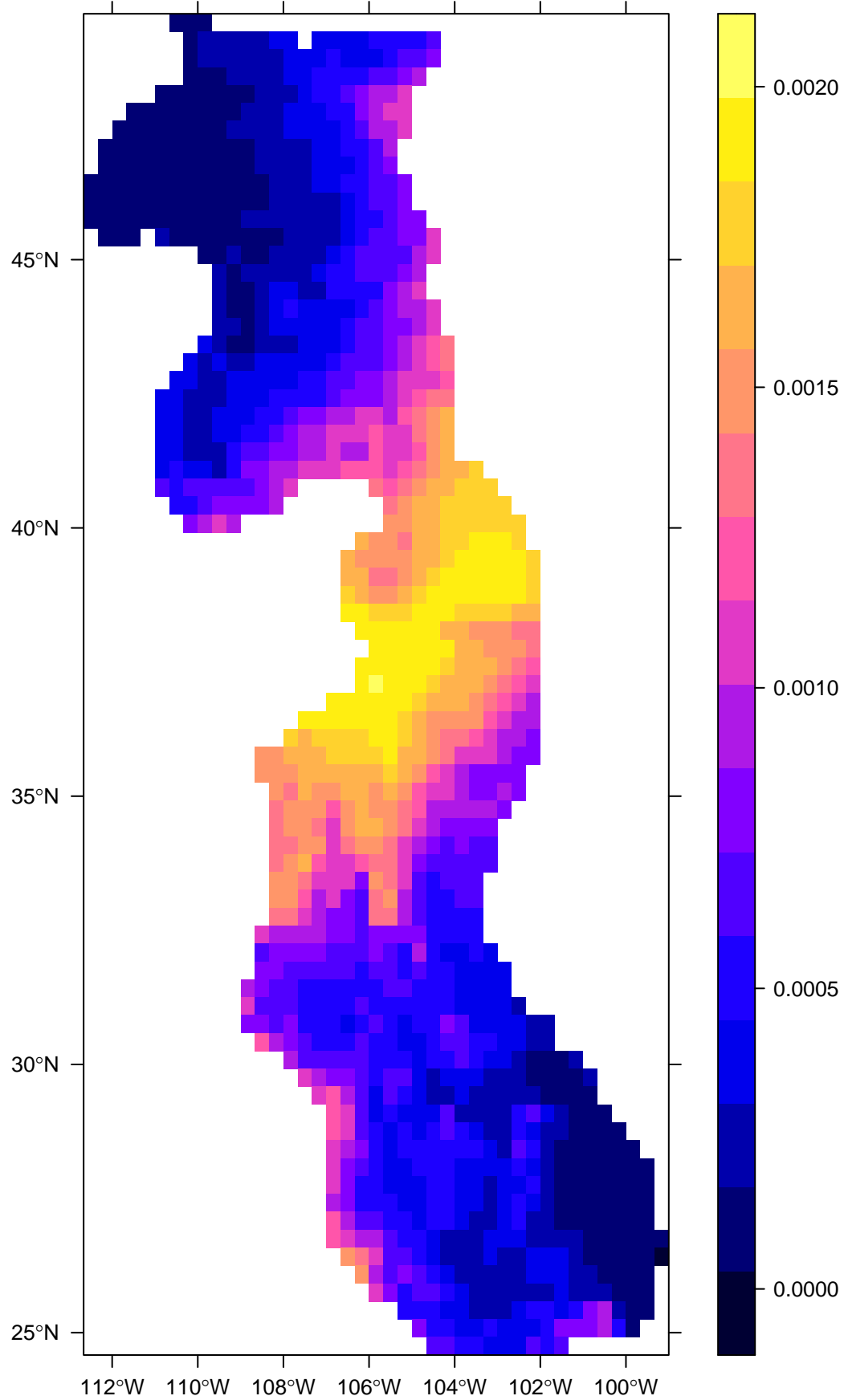
Probability Density Surface for juv_YR02_33



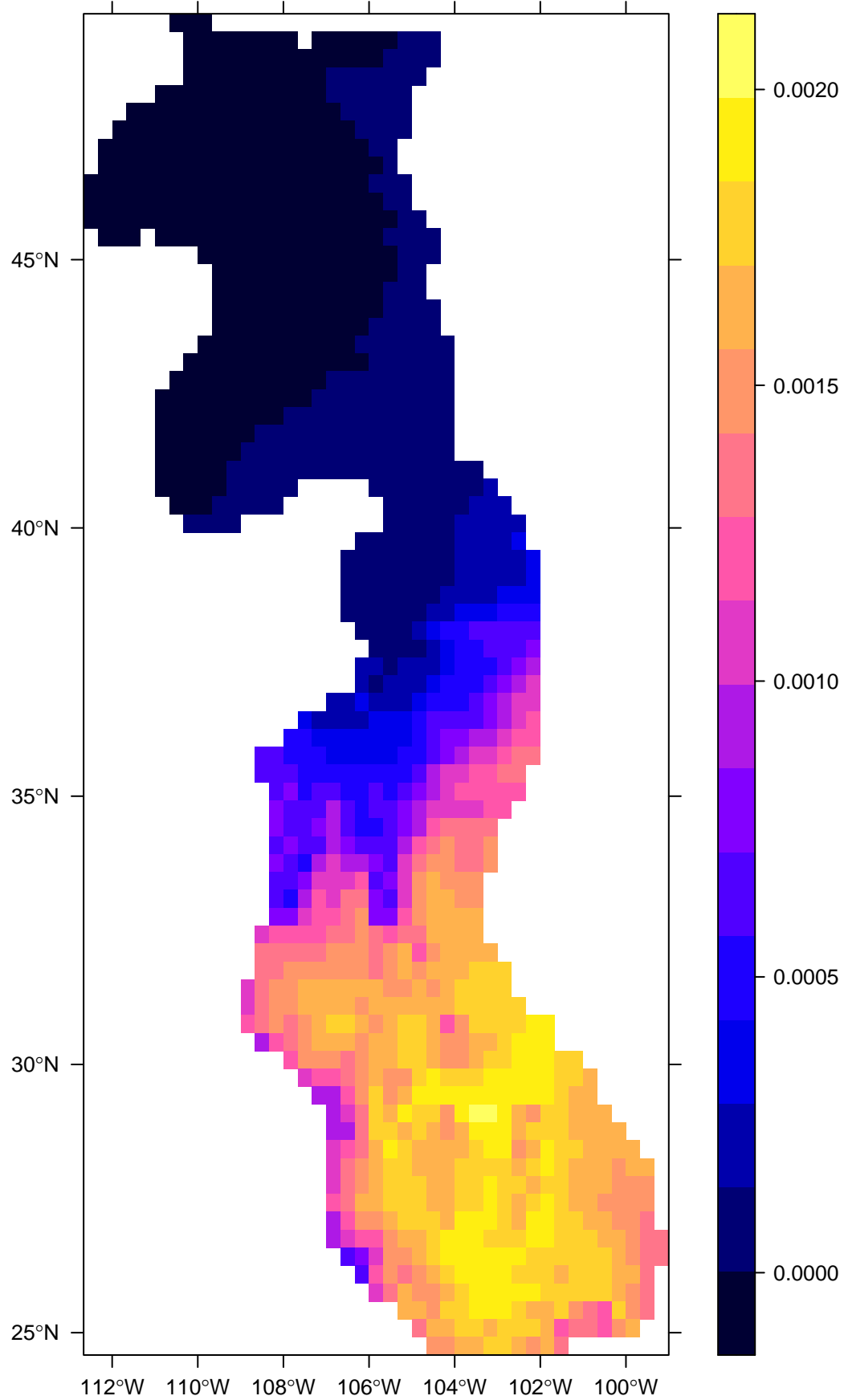
Probability Density Surface for juv_YR02_34



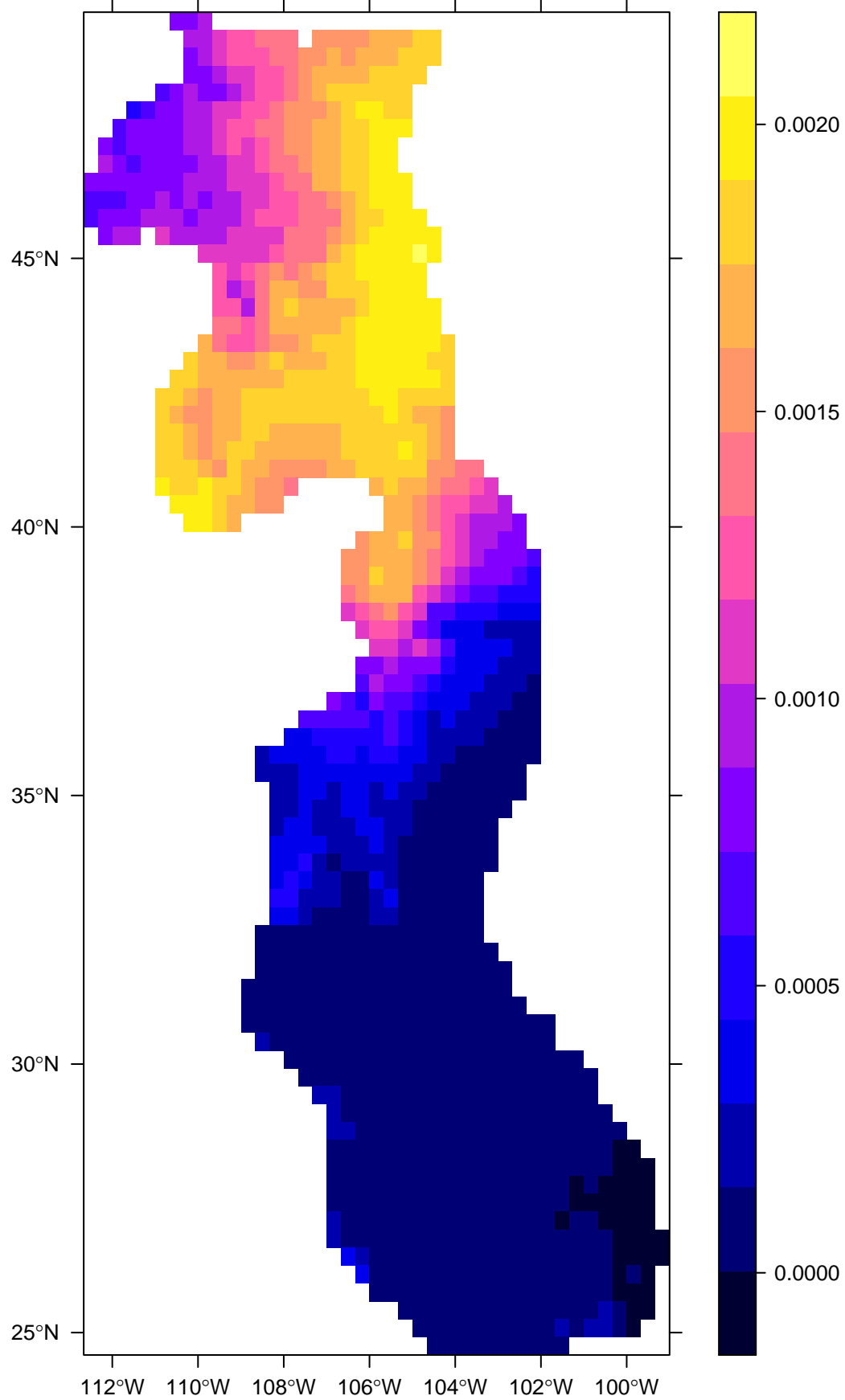
Probability Density Surface for juv_YR02_35



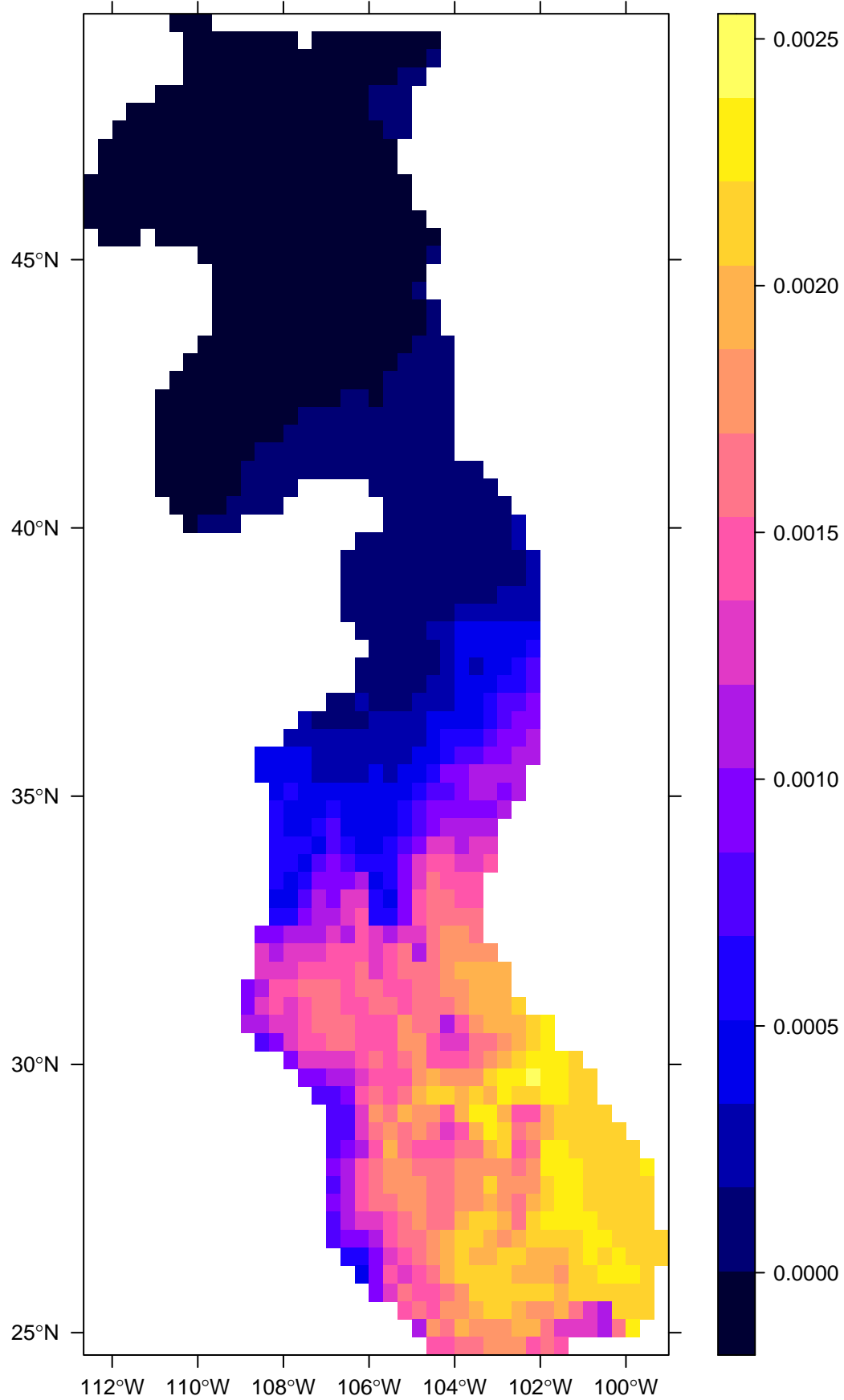
Probability Density Surface for juv_YR02_36



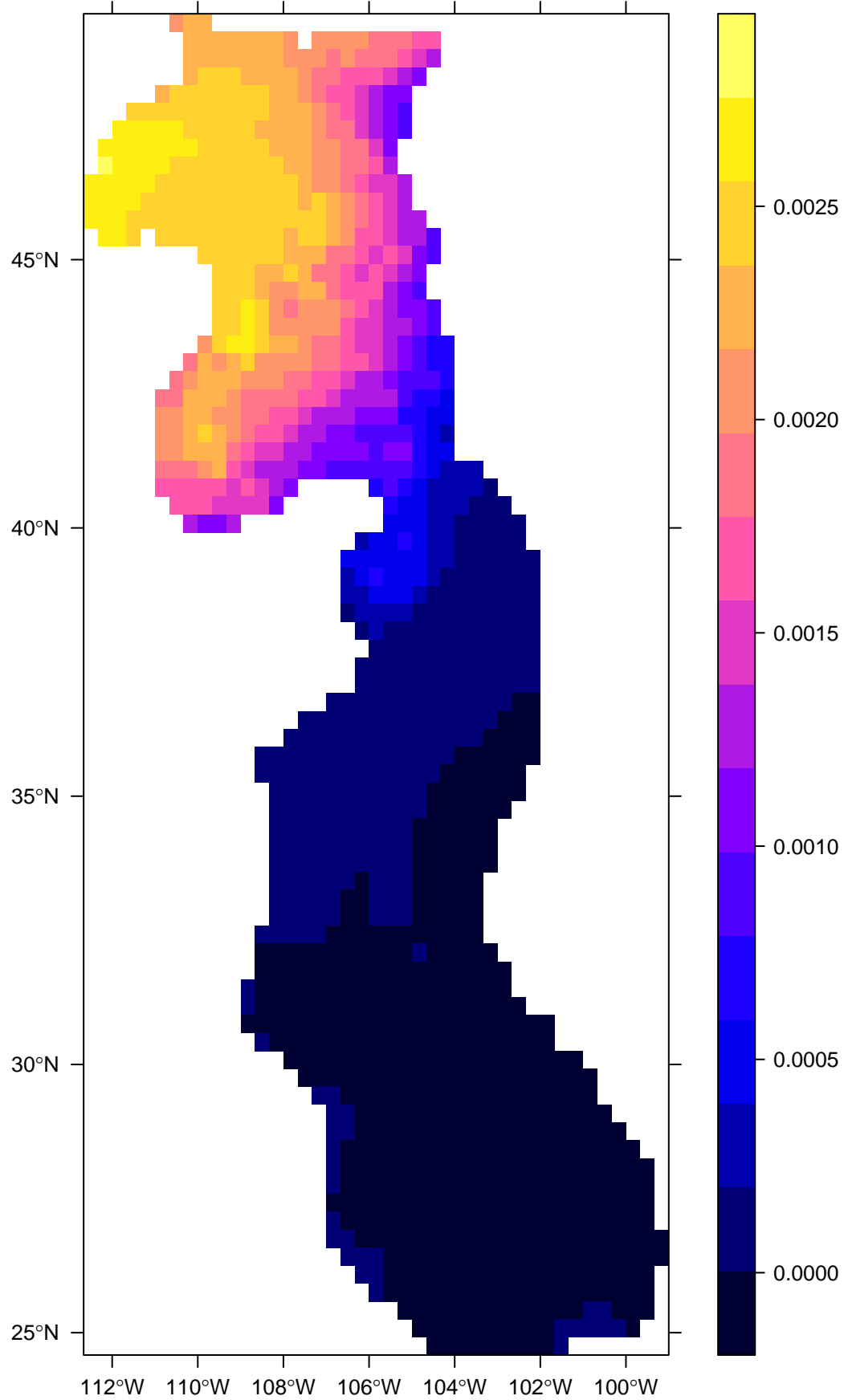
Probability Density Surface for juv_YR02_37



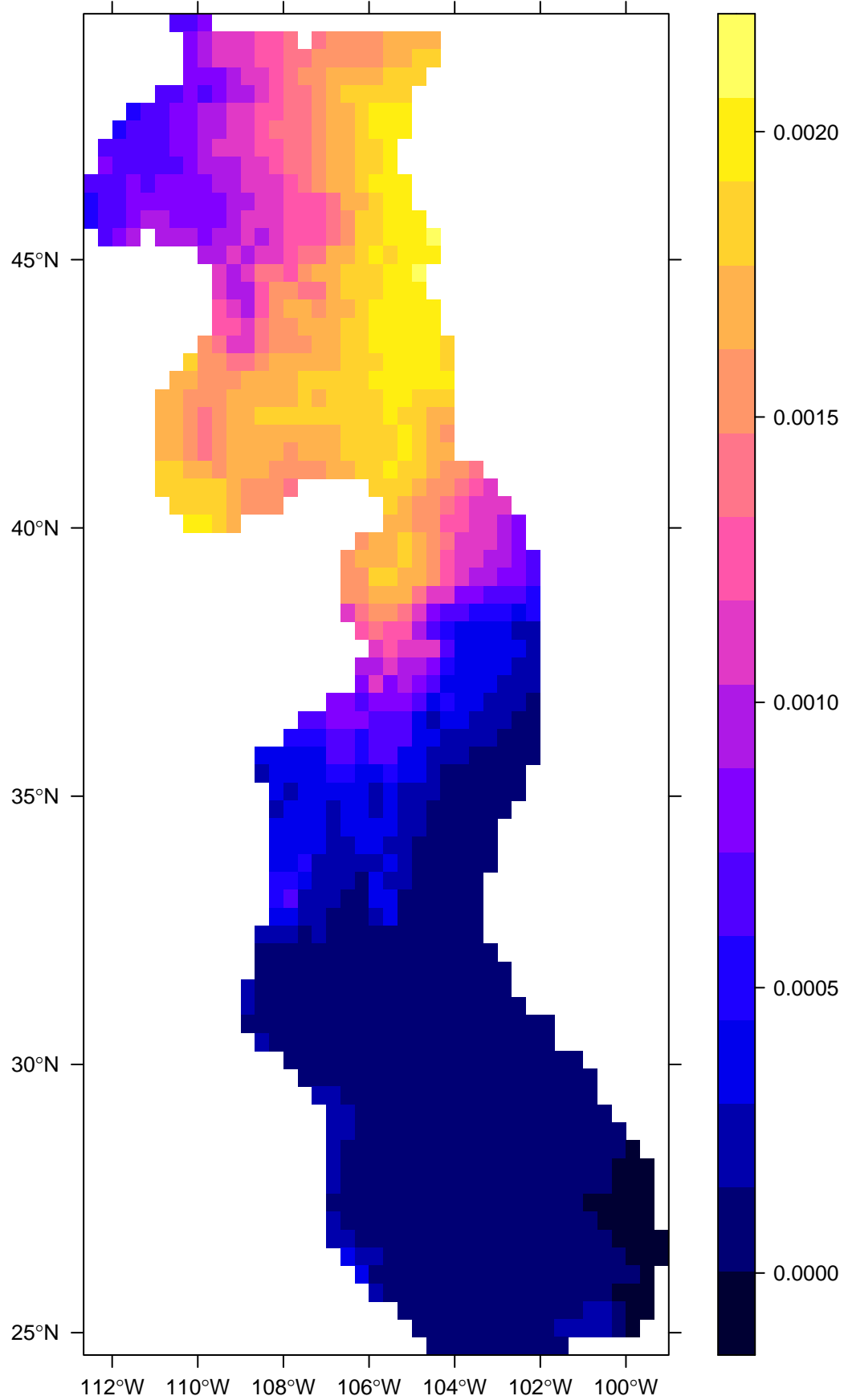
Probability Density Surface for juv_YR02_38



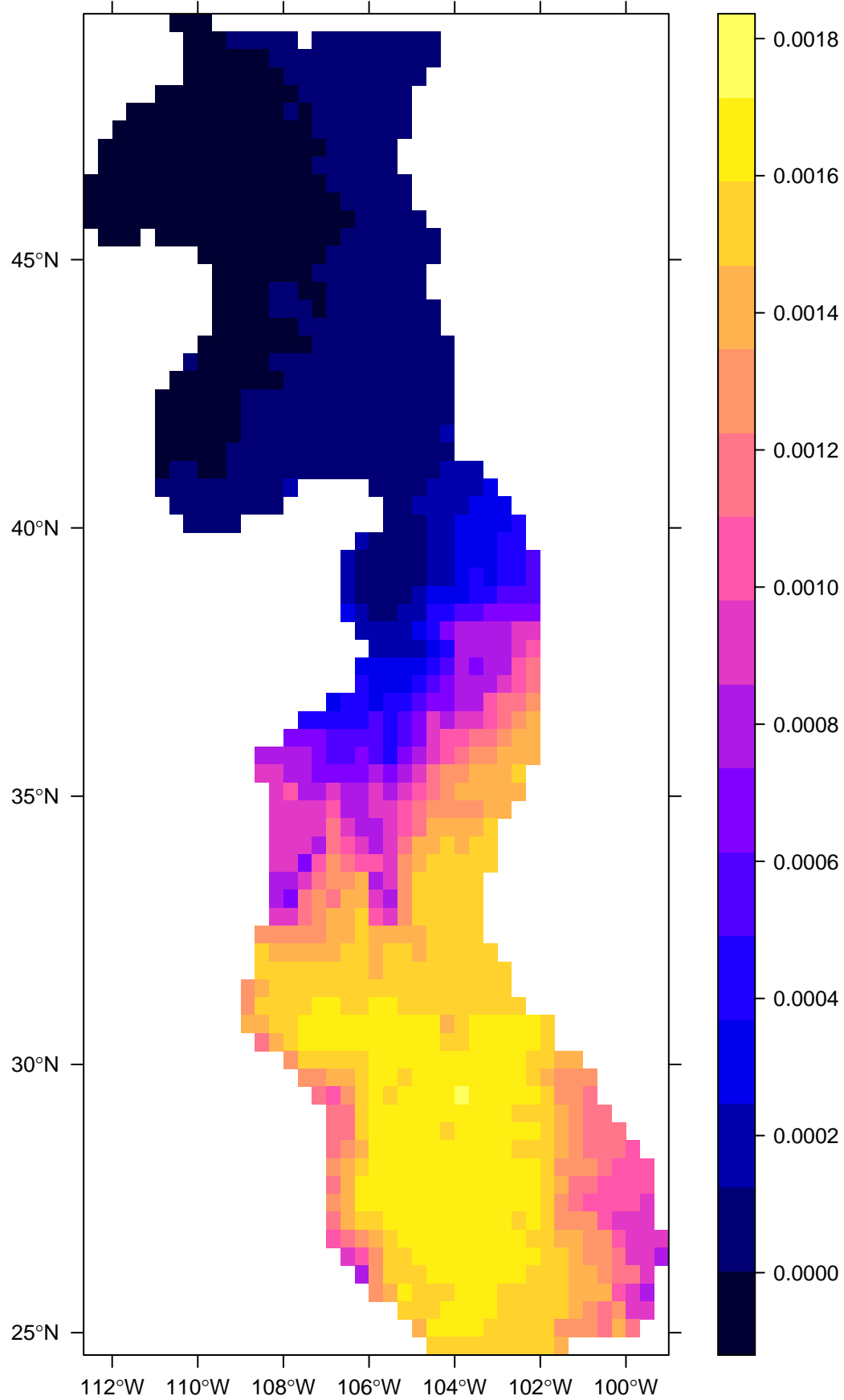
Probability Density Surface for juv_YR02_39



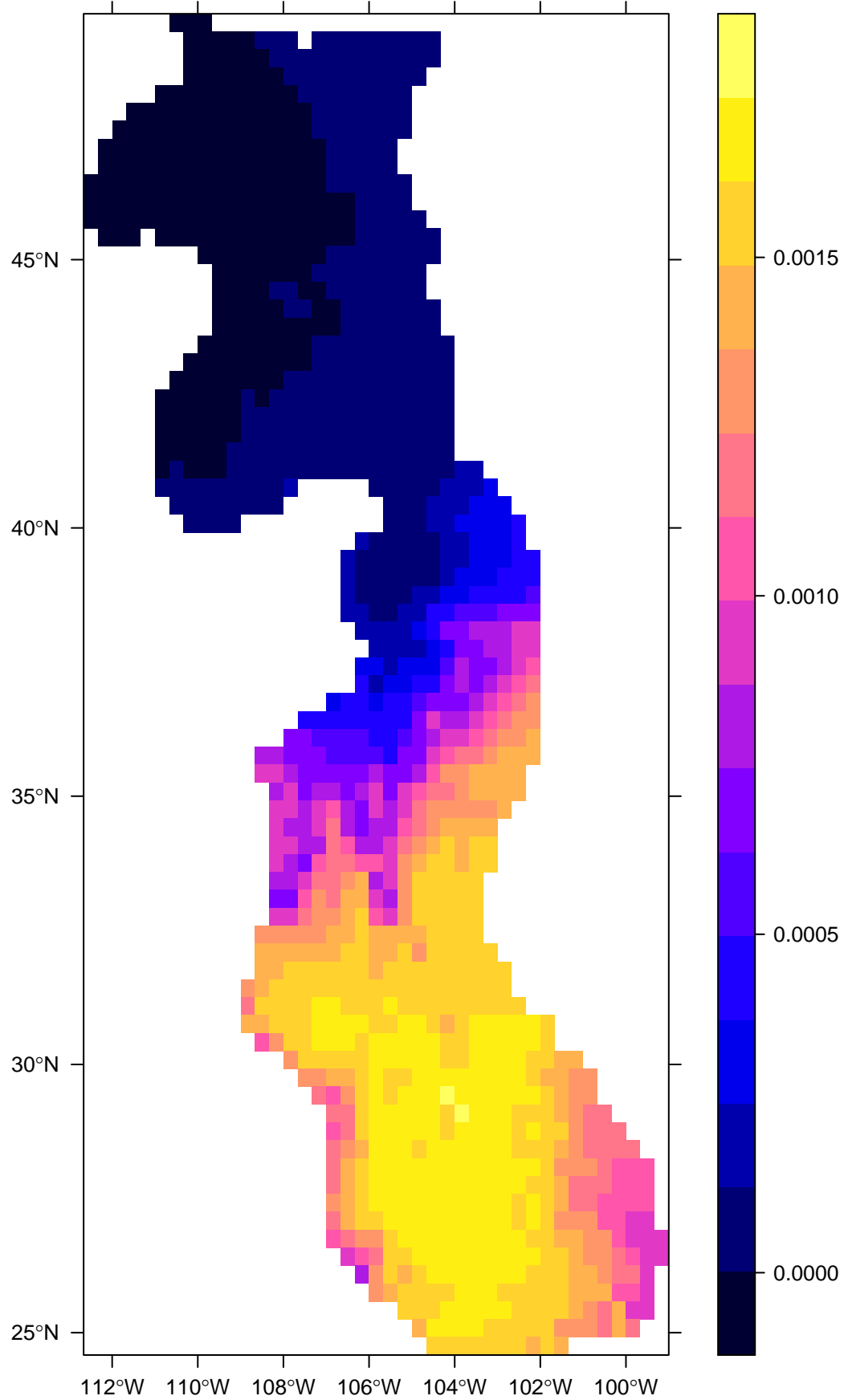
Probability Density Surface for juv_YR02_40



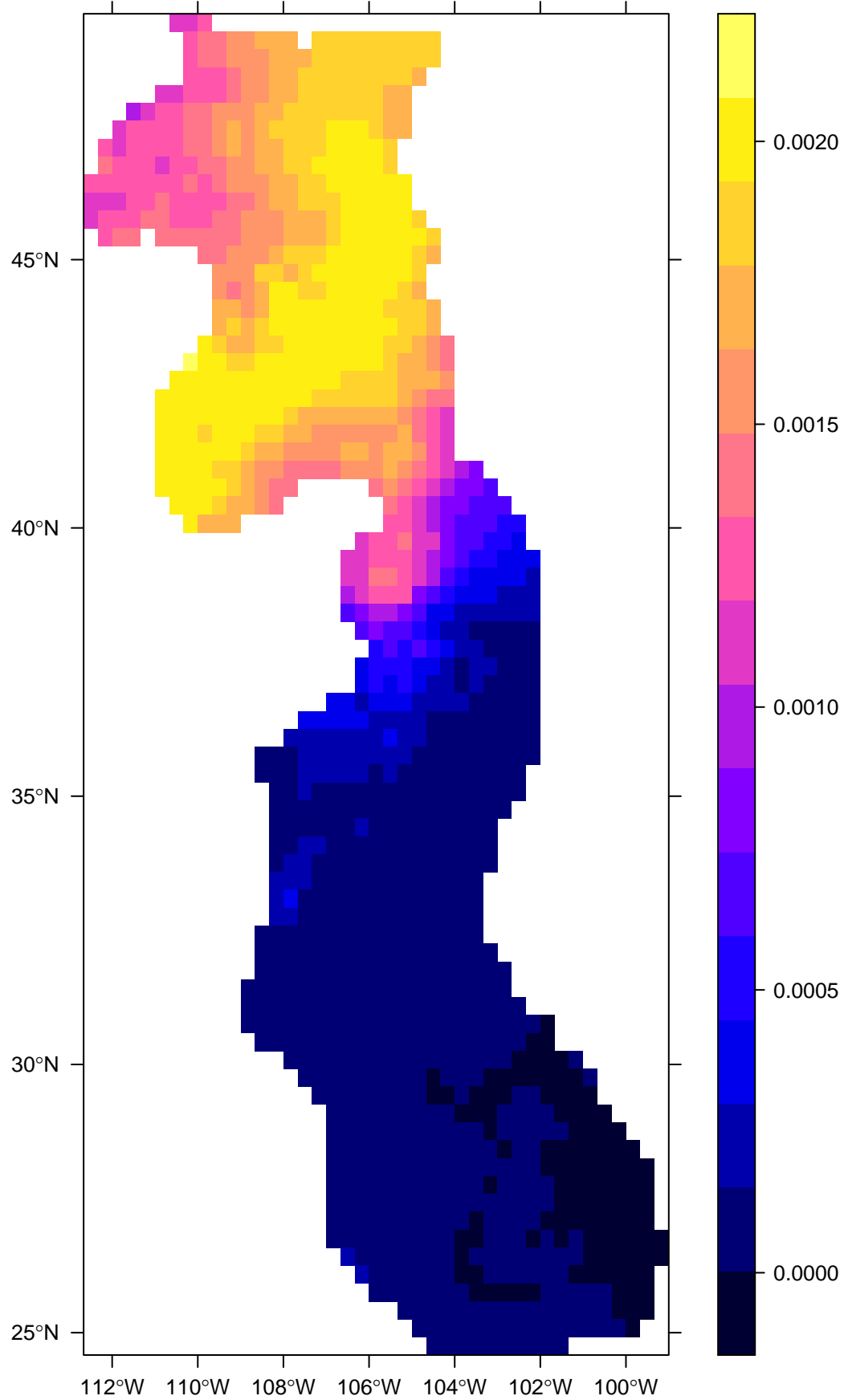
Probability Density Surface for juv_YR02_41



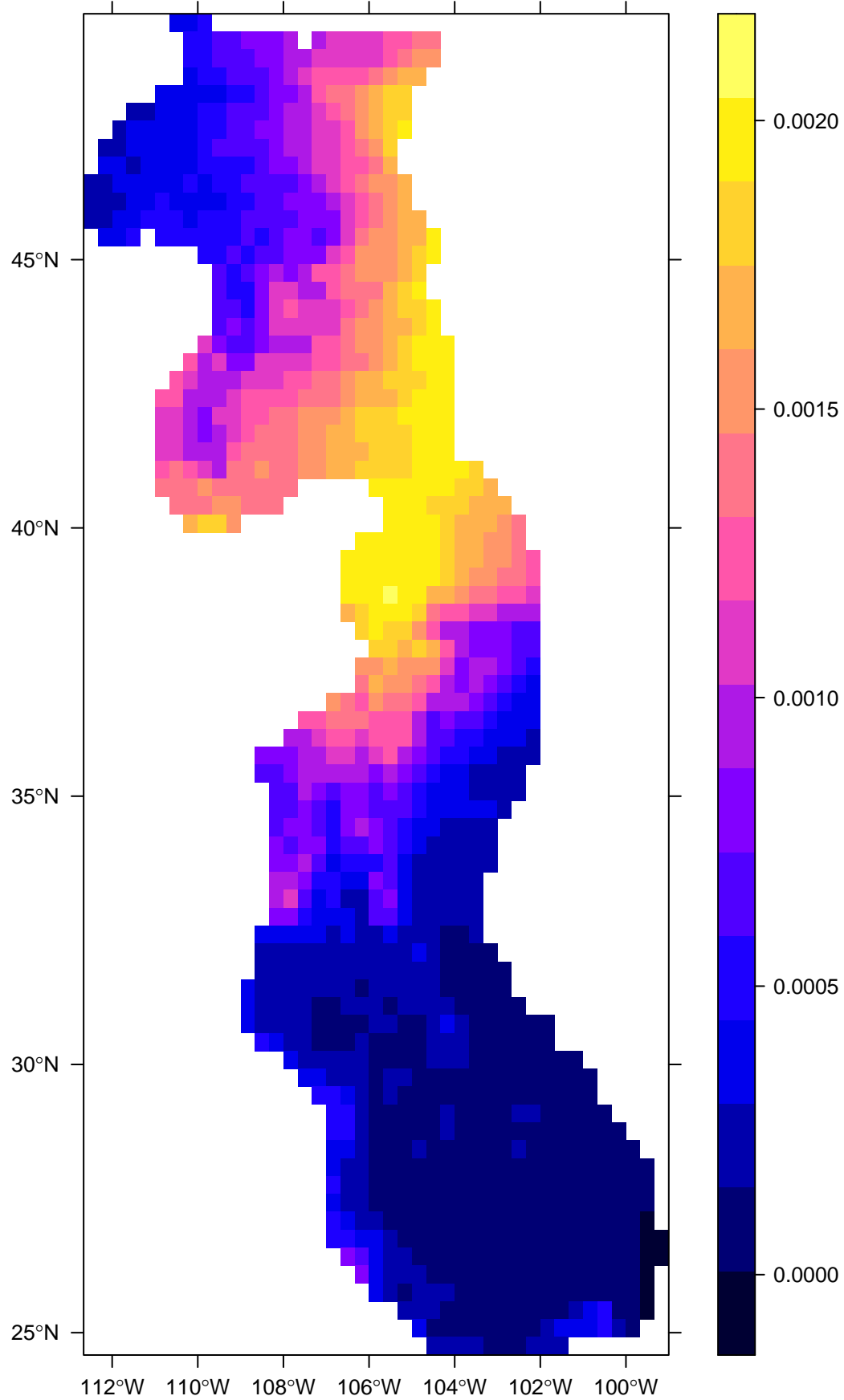
Probability Density Surface for juv_YR02_42



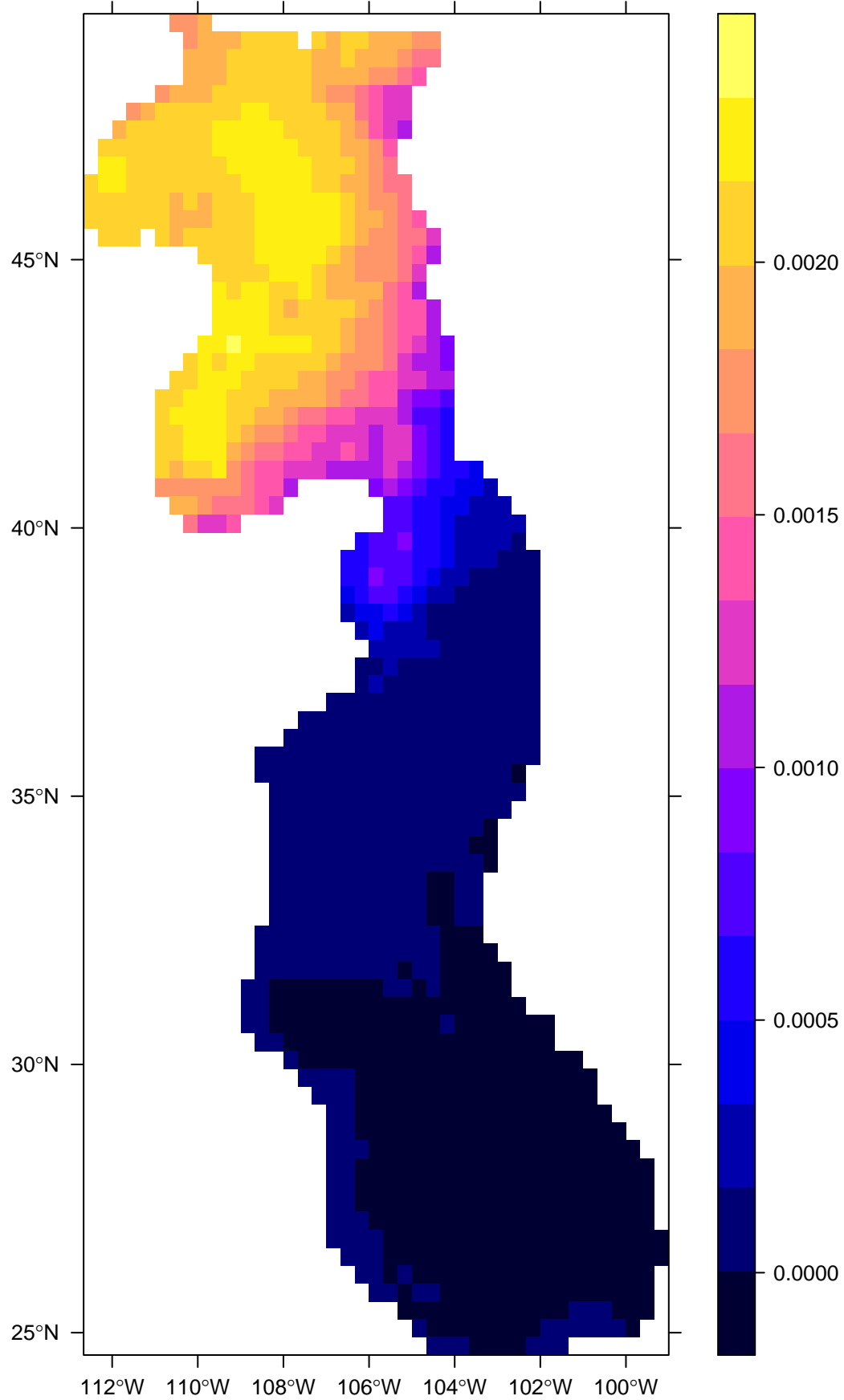
Probability Density Surface for juv_YR02_43



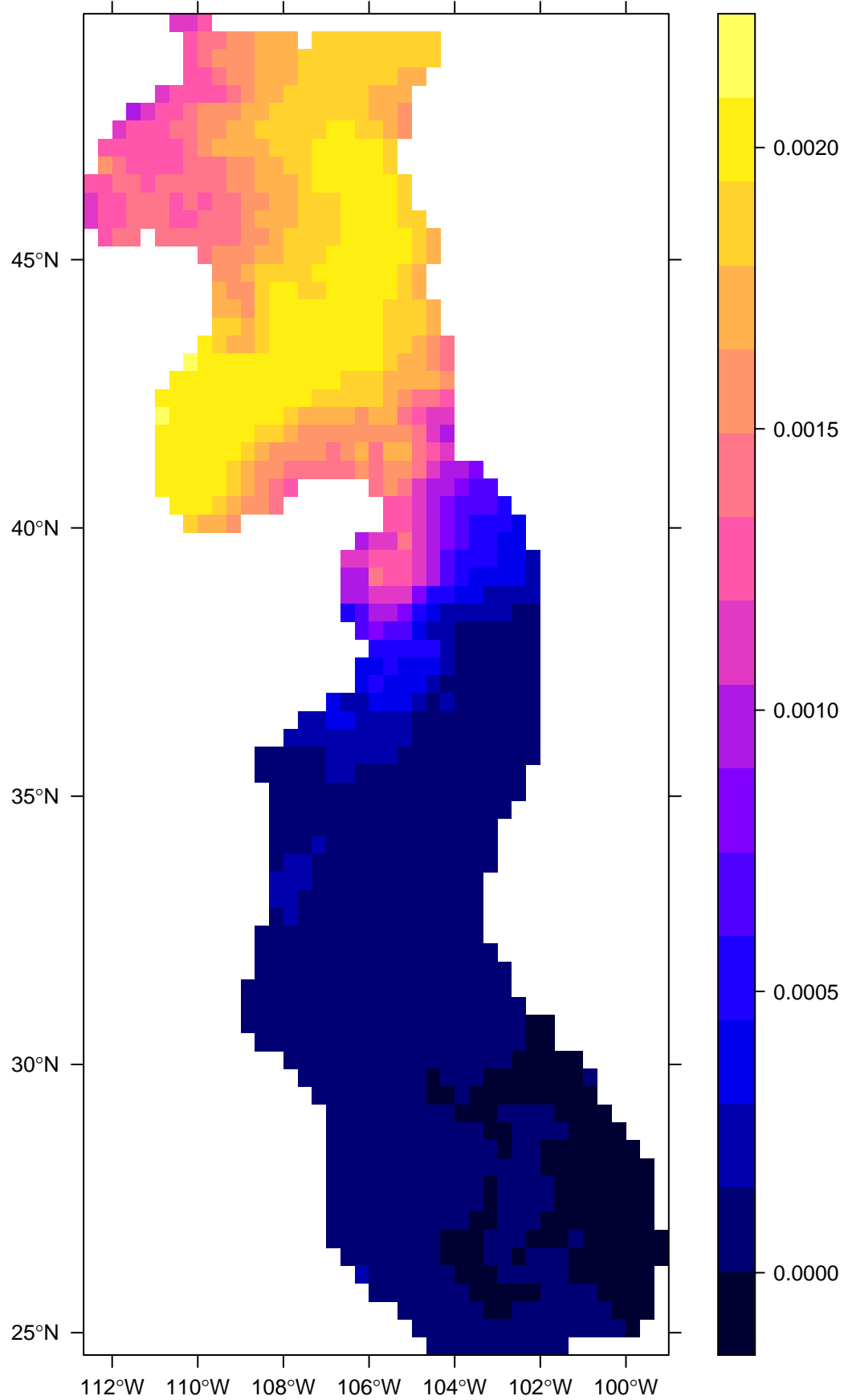
Probability Density Surface for juv_YR02_44



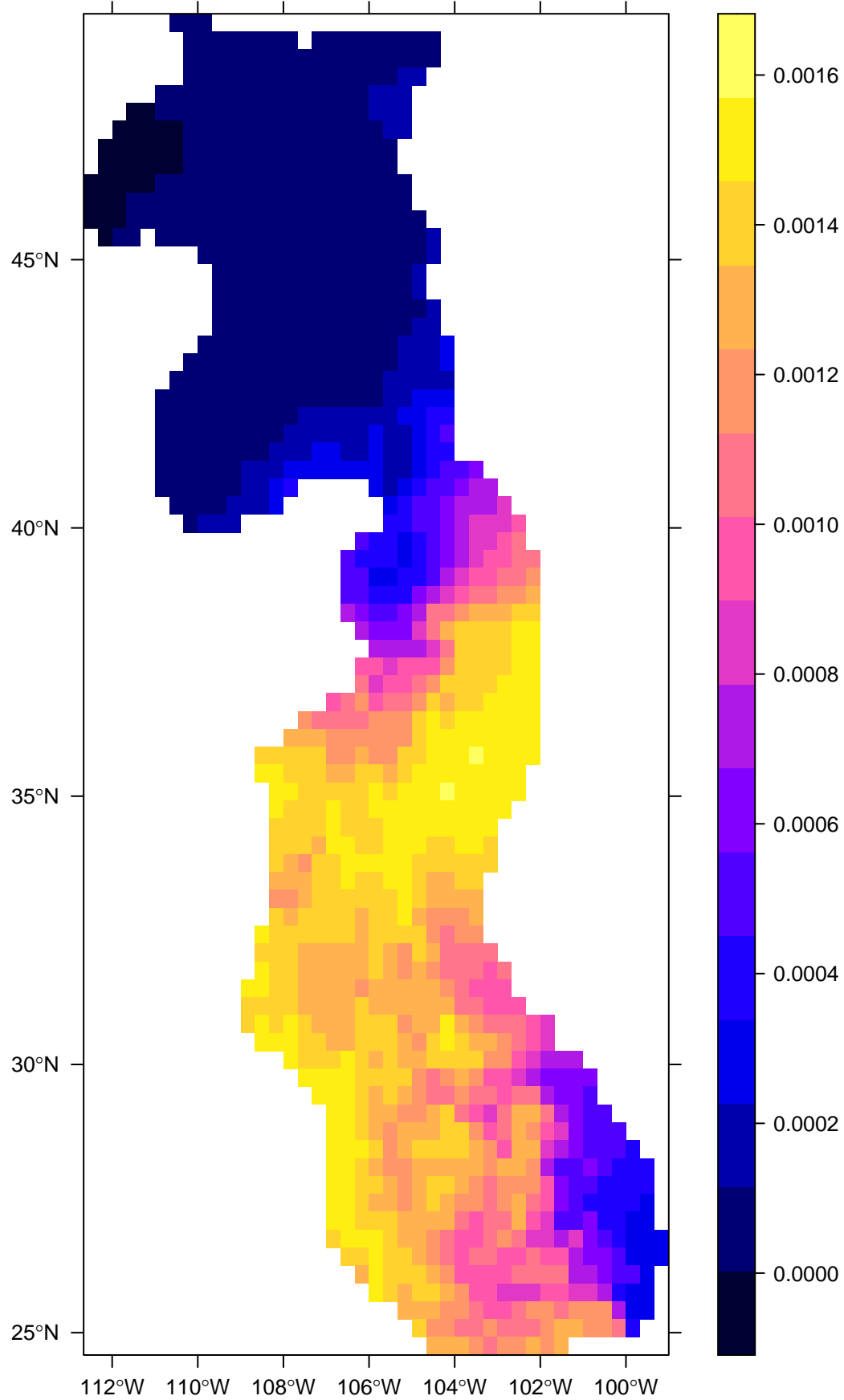
Probability Density Surface for juv_YR02_45



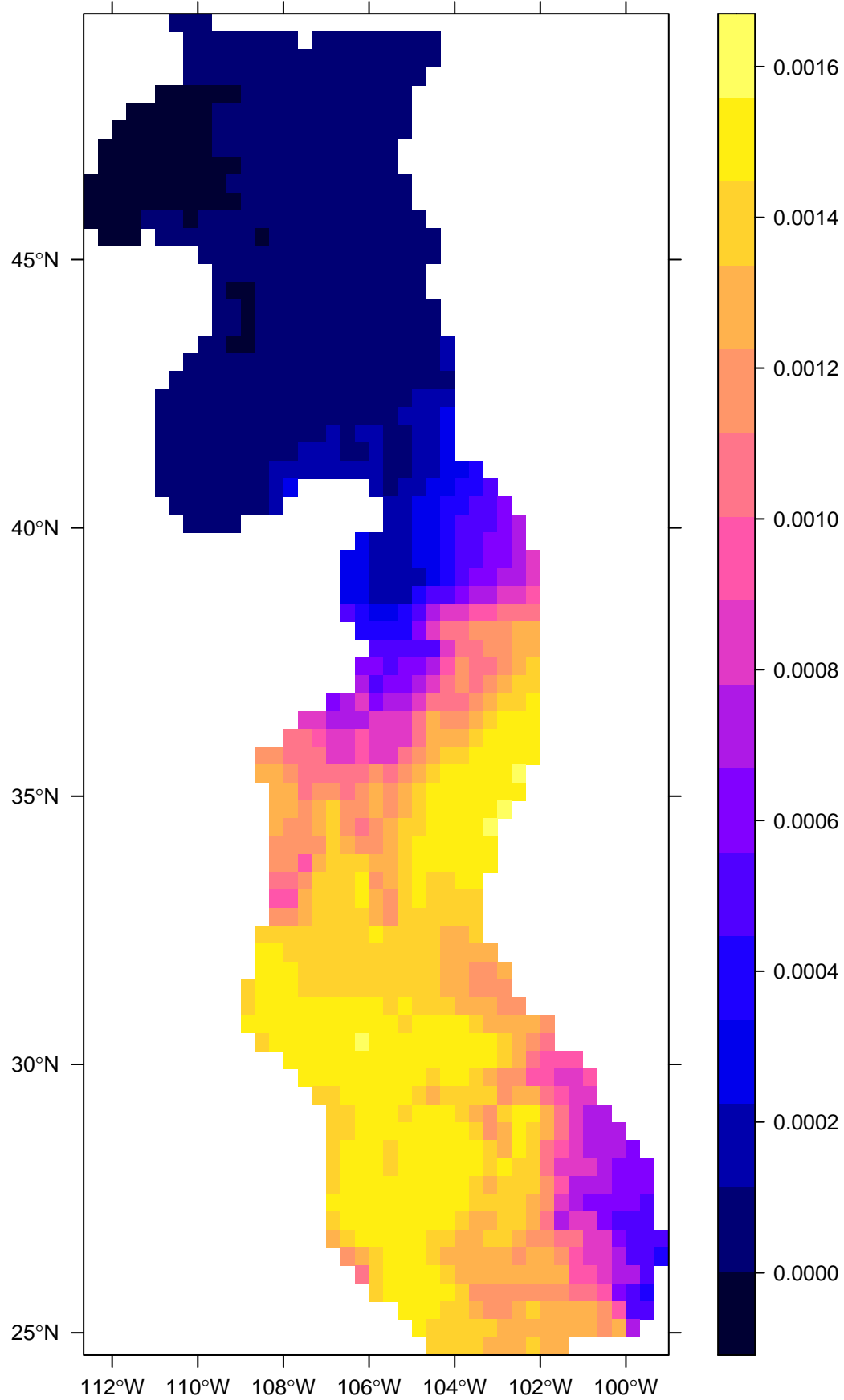
Probability Density Surface for juv_YR02_46



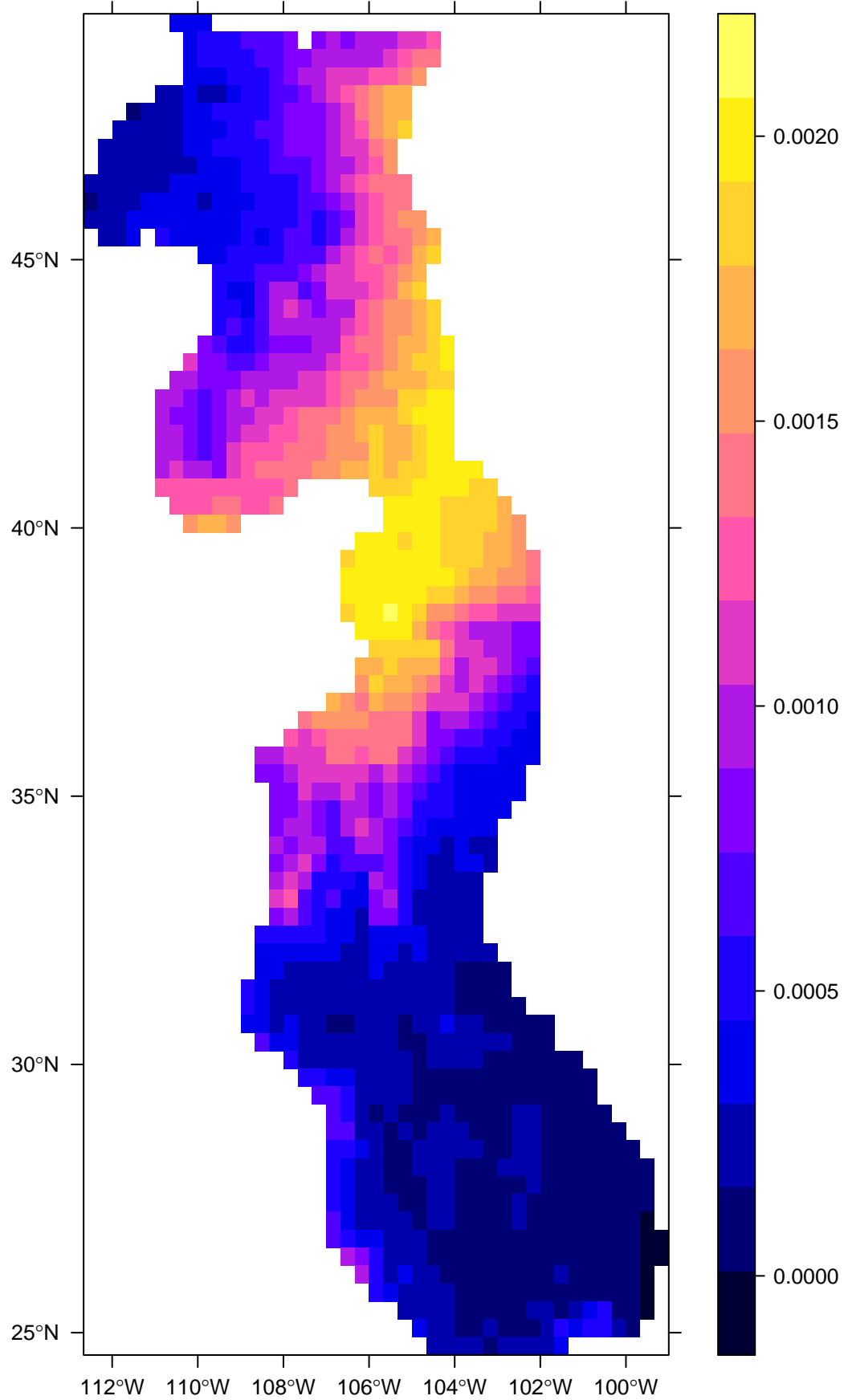
Probability Density Surface for juv_YR02_47



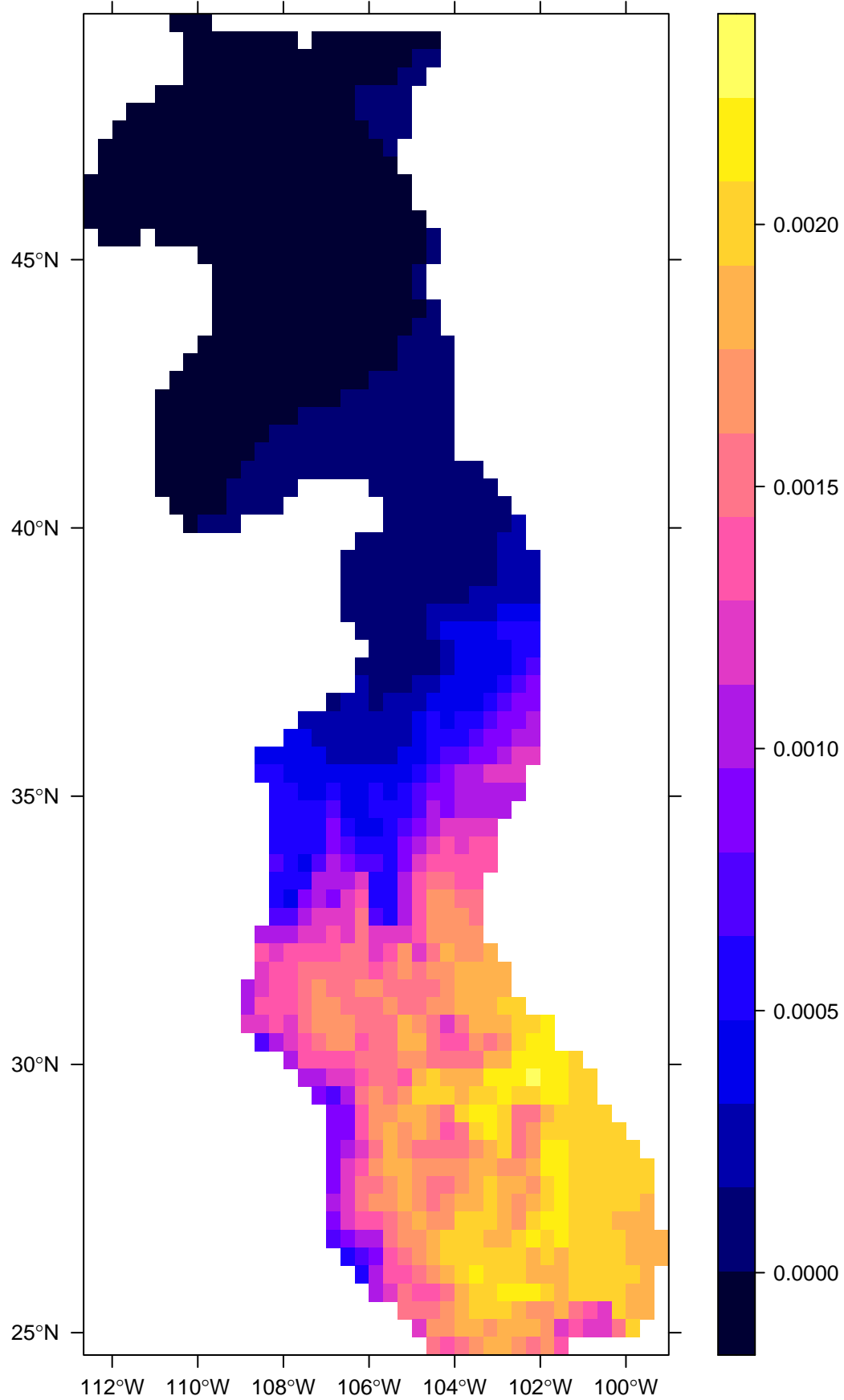
Probability Density Surface for juv_YR02_48



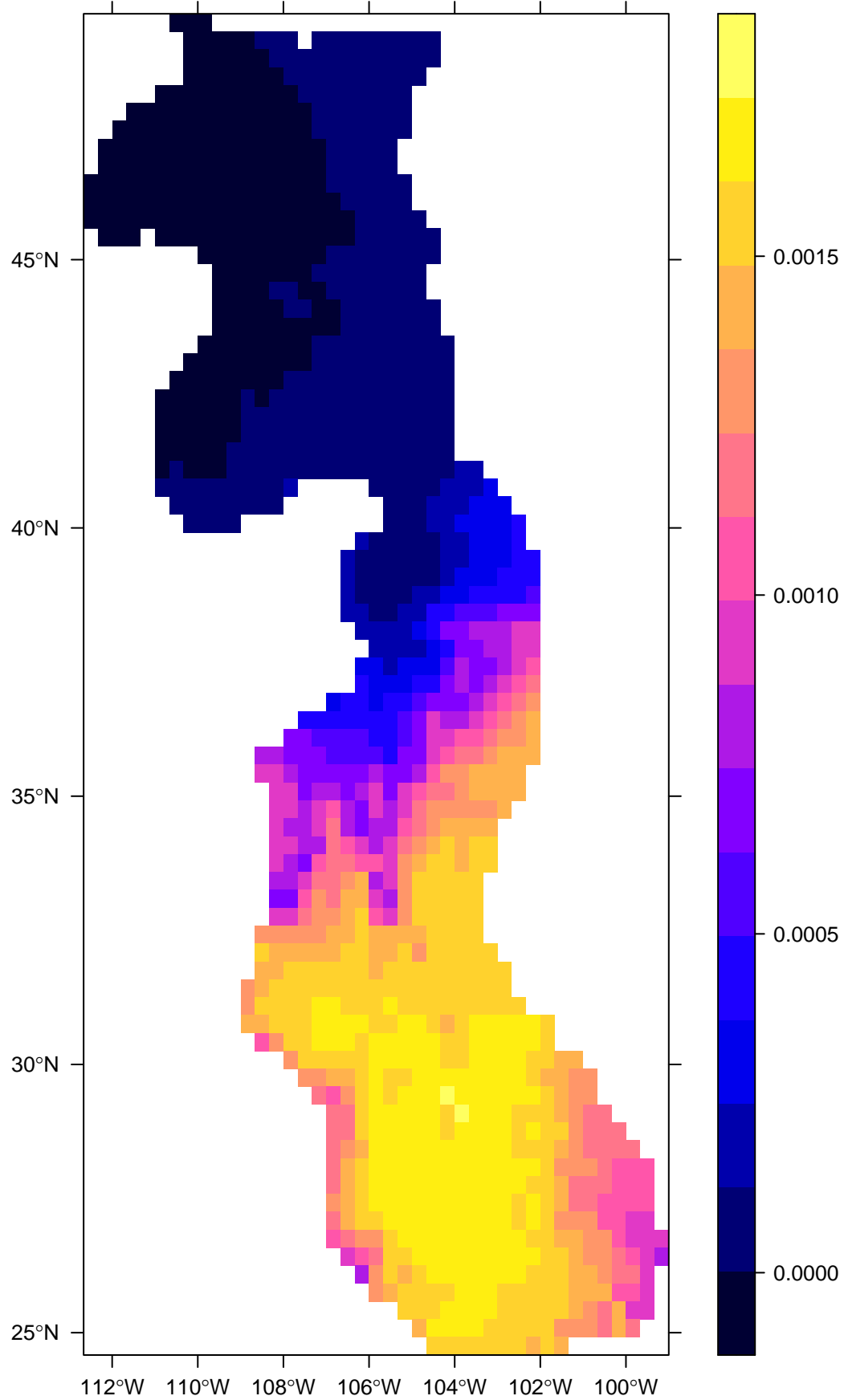
Probability Density Surface for juv_YR02_49



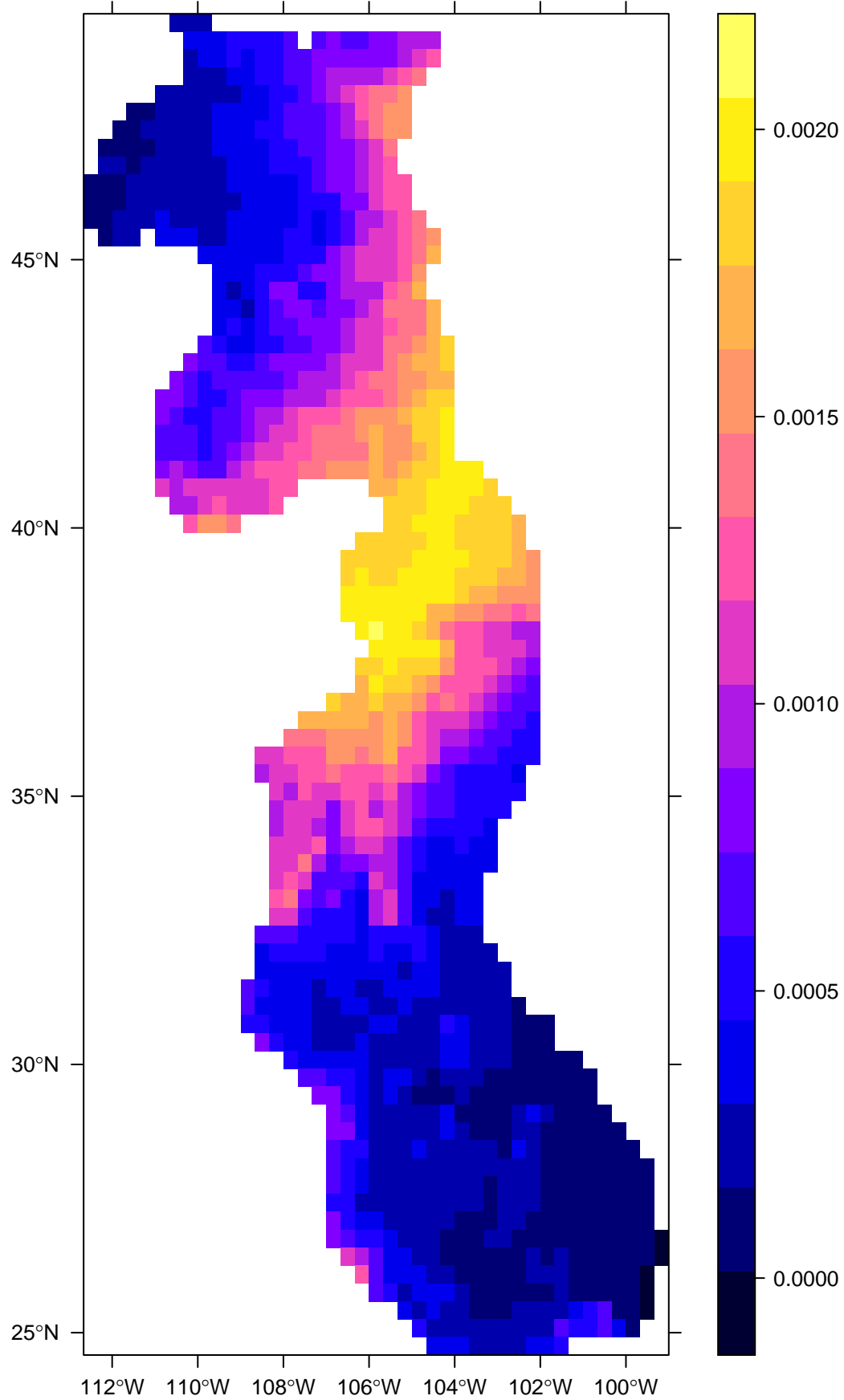
Probability Density Surface for juv_YR02_50



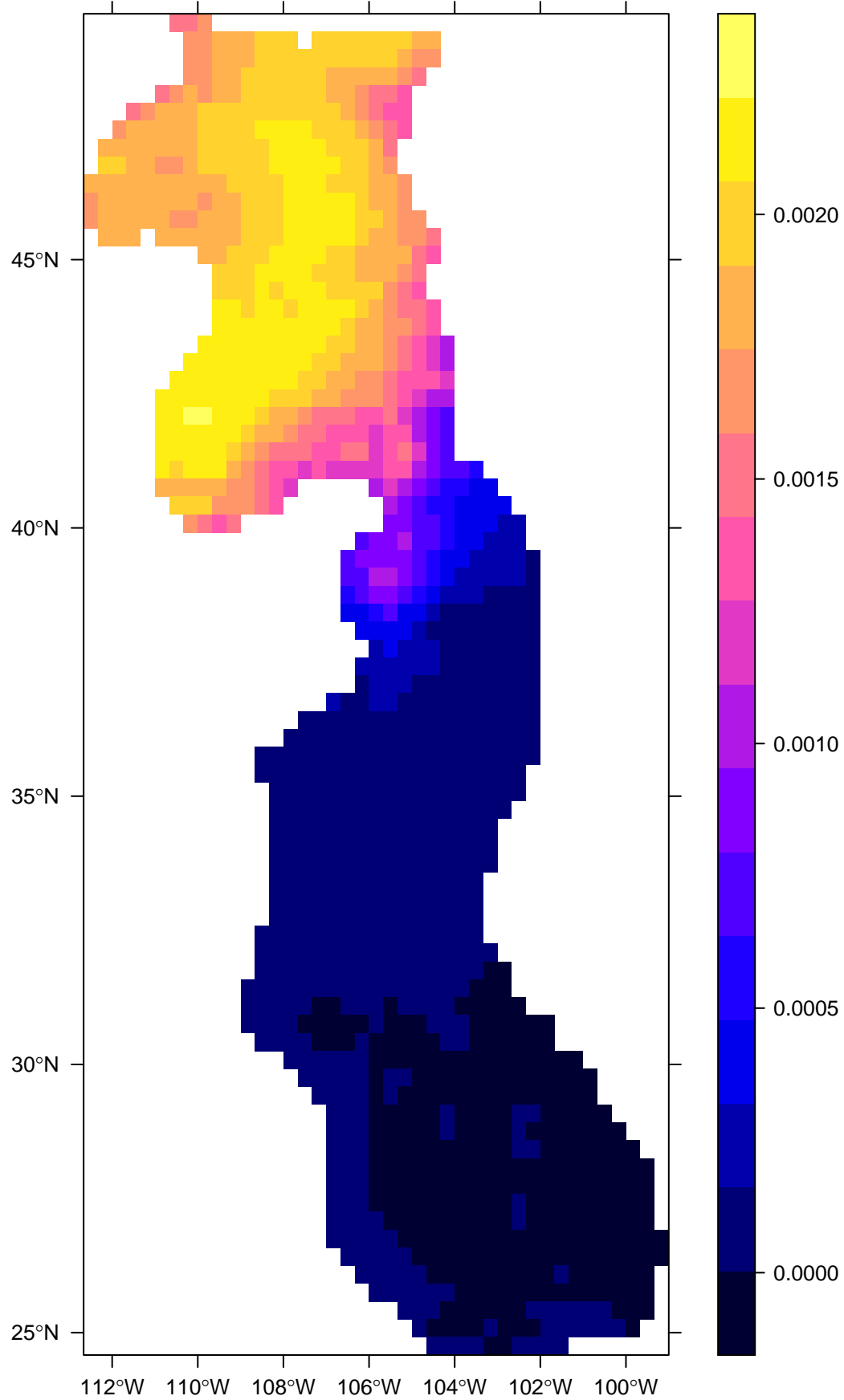
Probability Density Surface for juv_YR02_51



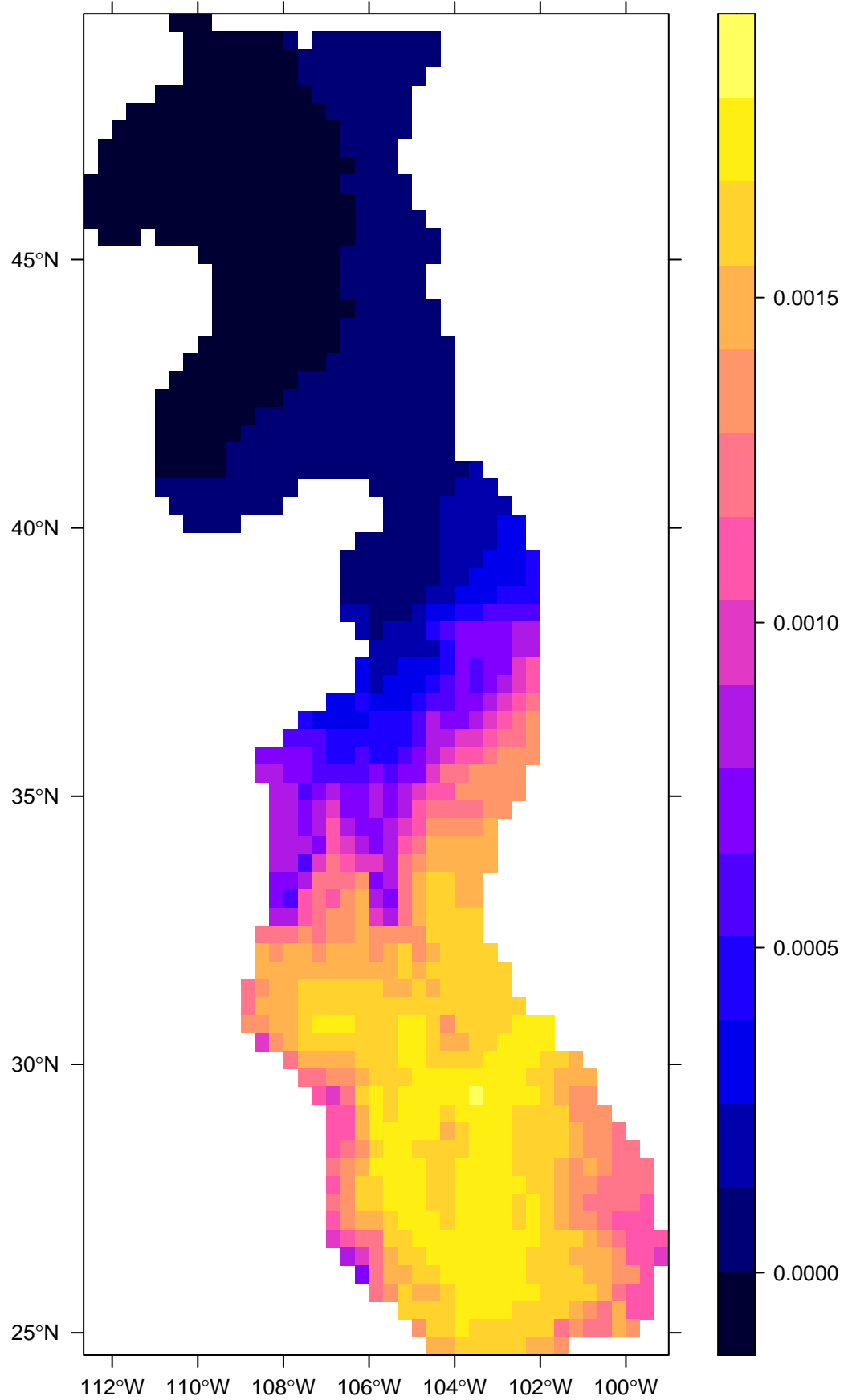
Probability Density Surface for juv_YR02_52



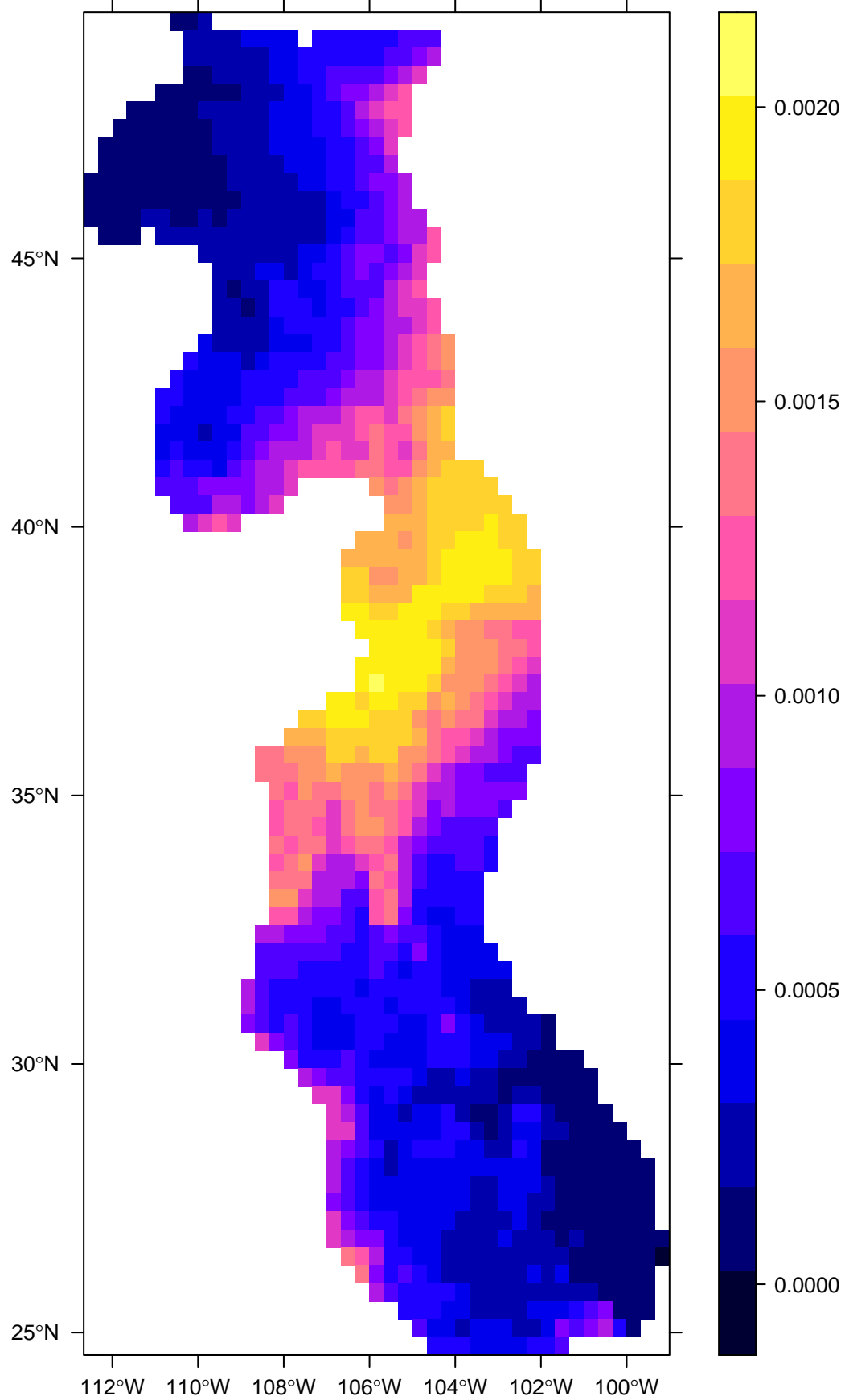
Probability Density Surface for juv_YR02_53



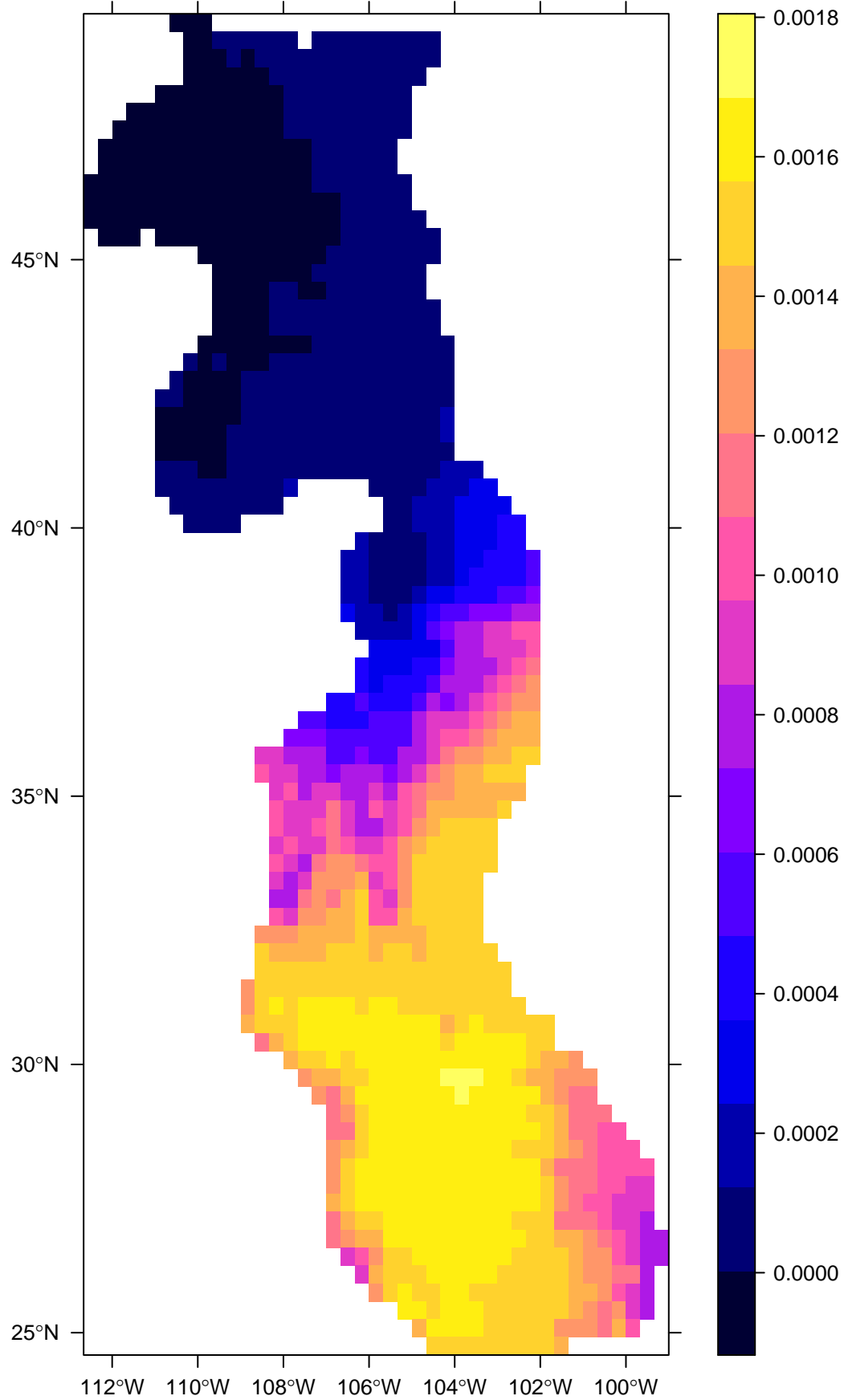
Probability Density Surface for juv_YR02_54



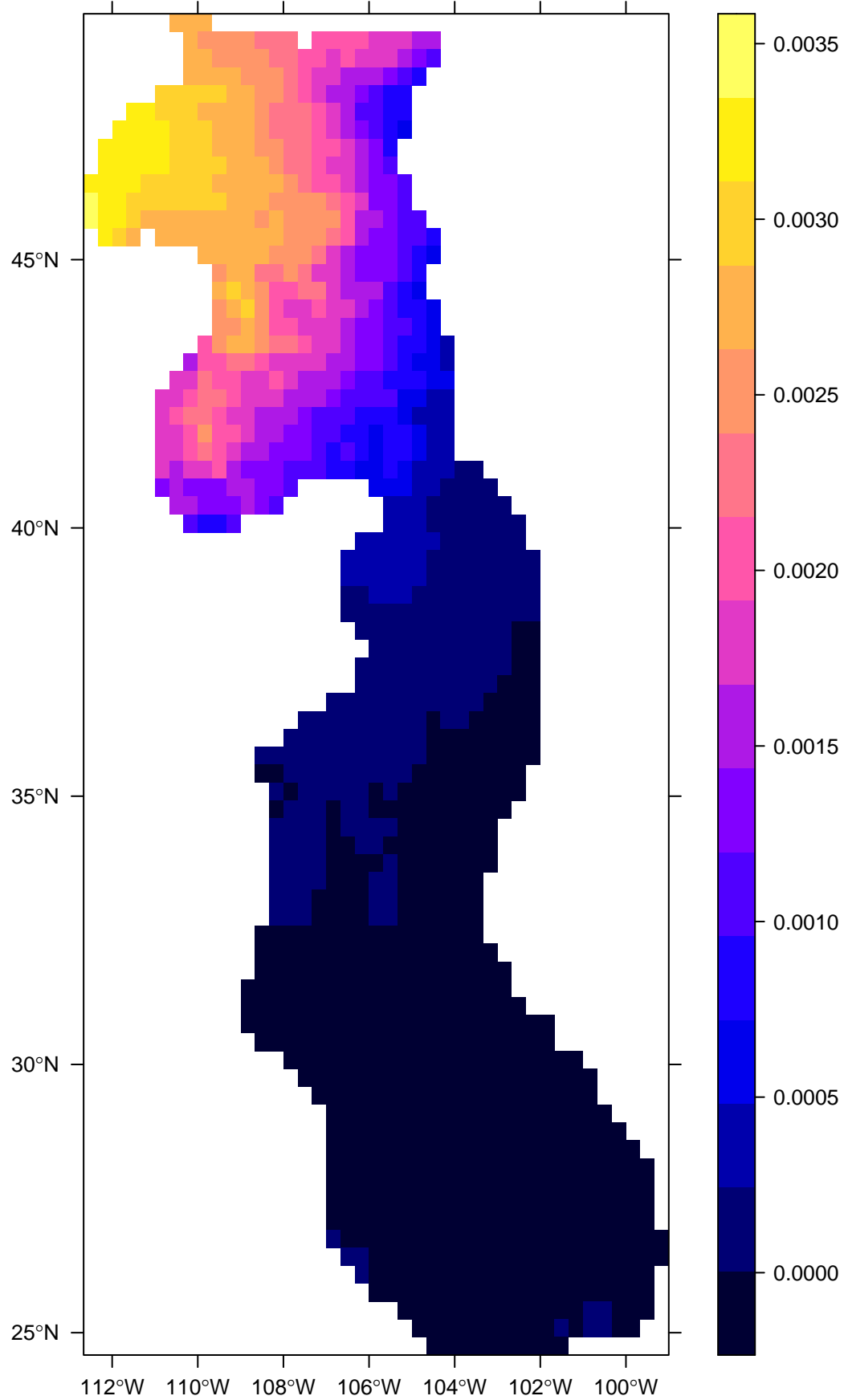
Probability Density Surface for juv_YR02_55



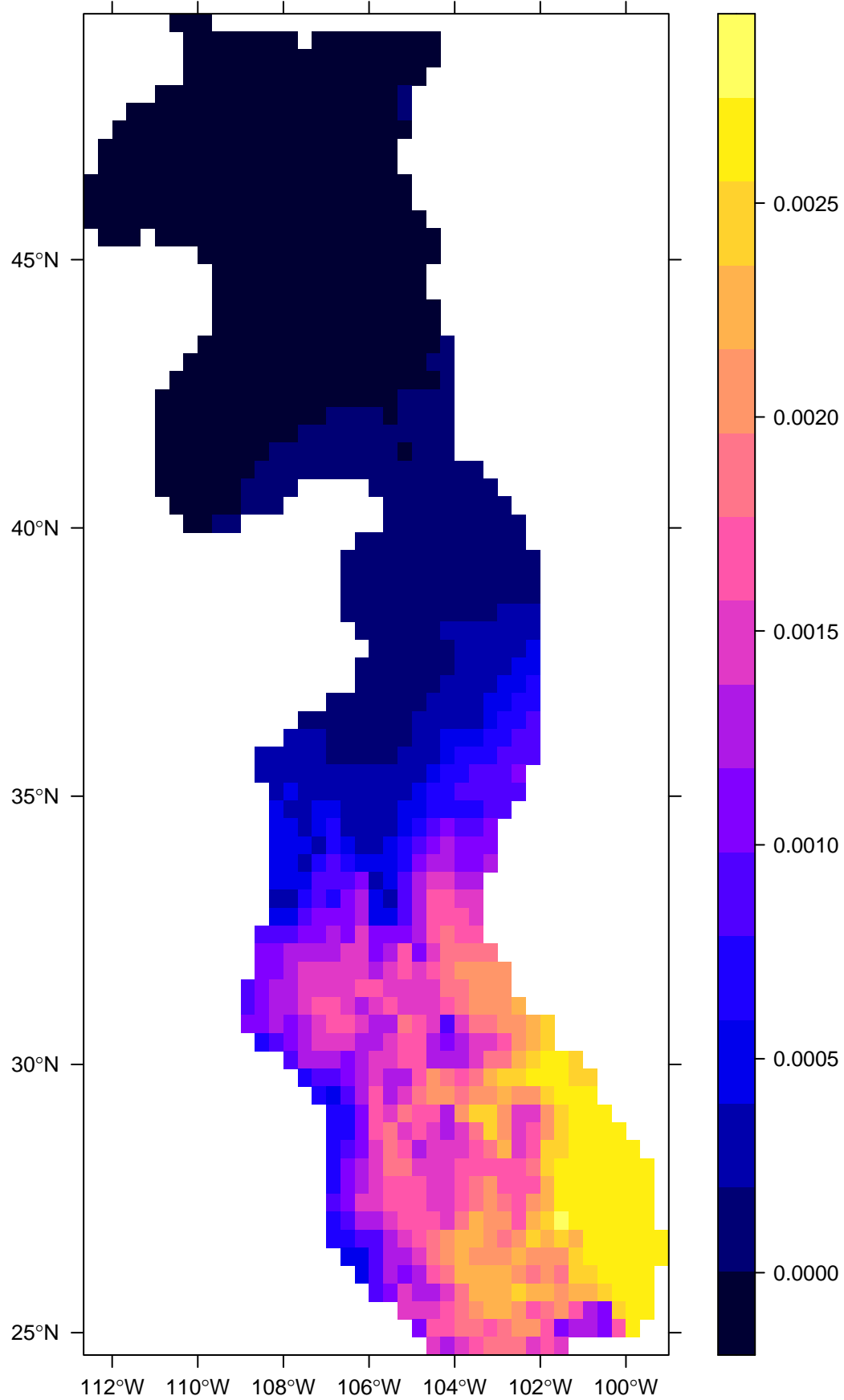
Probability Density Surface for juv_YR02_56



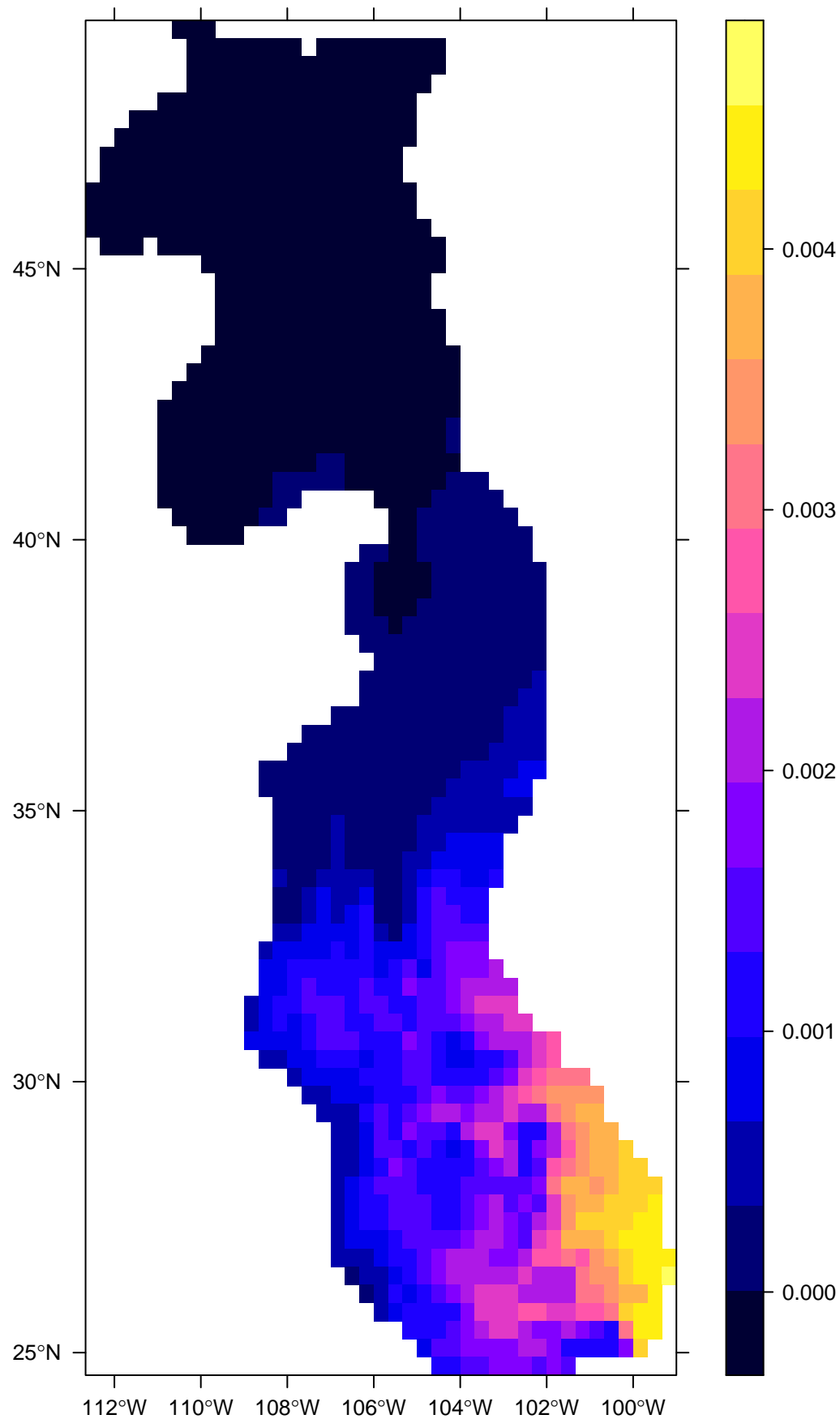
Probability Density Surface for juv_YR02_57



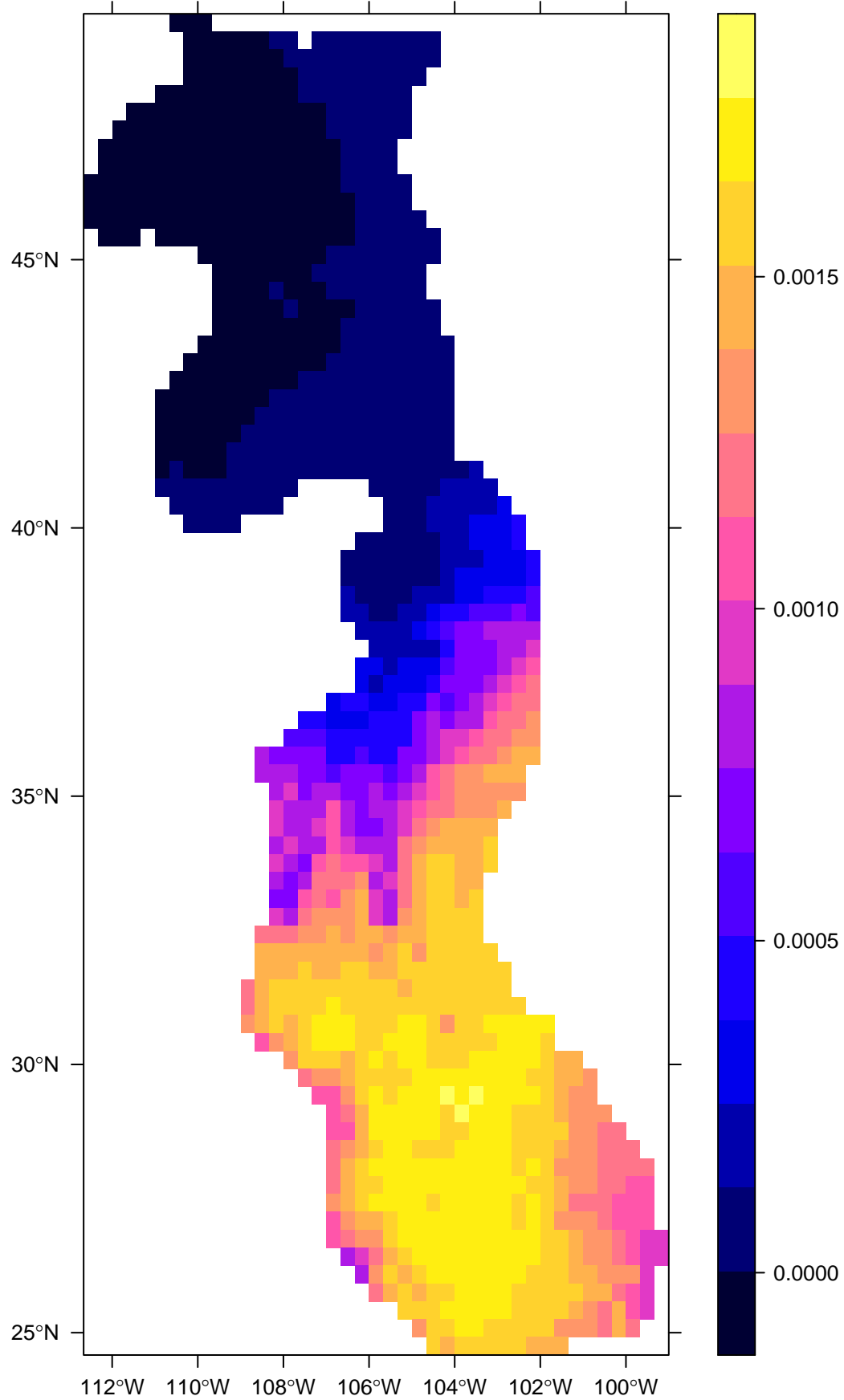
Probability Density Surface for juv_YR02_58



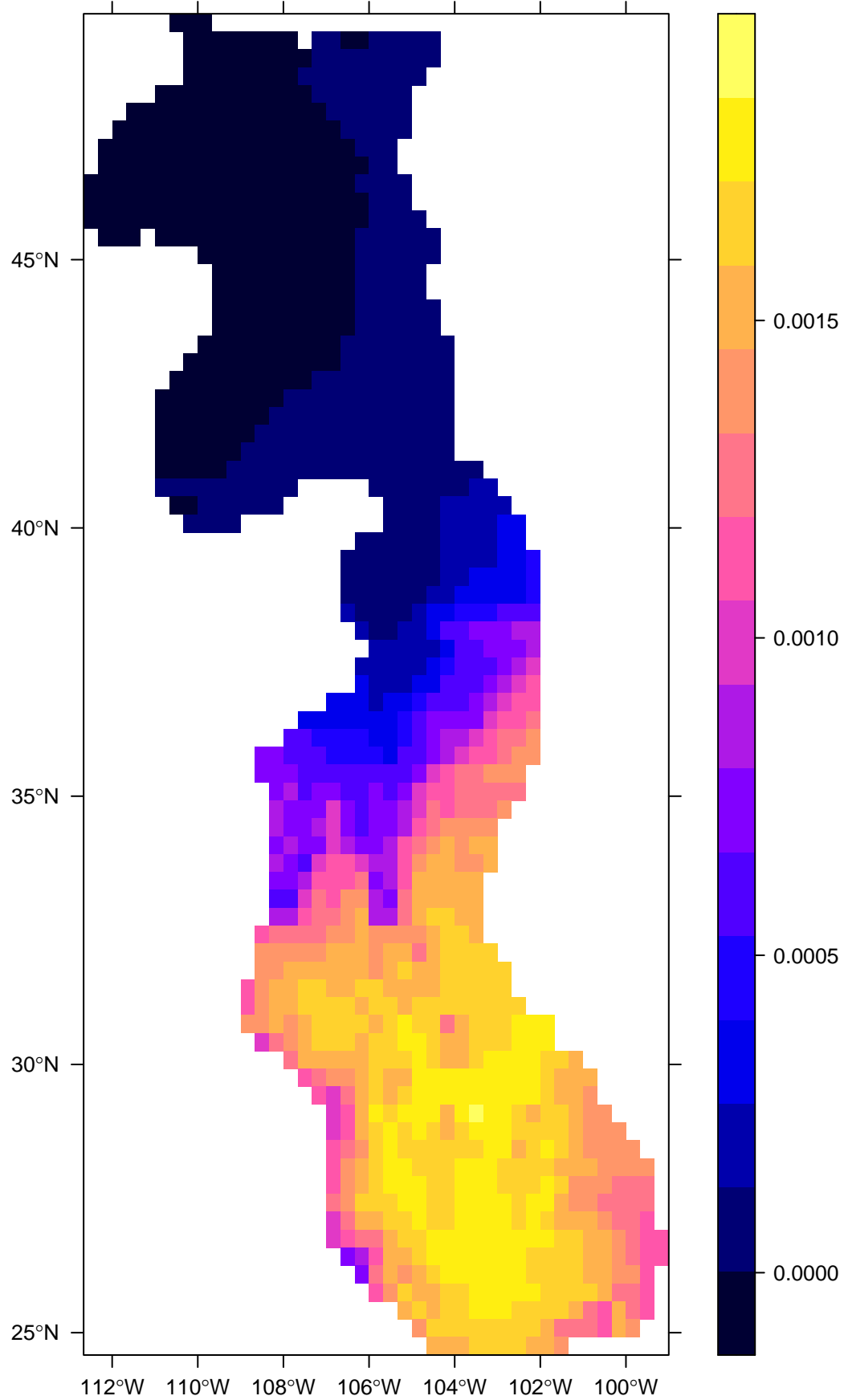
Probability Density Surface for juv_YR02_59



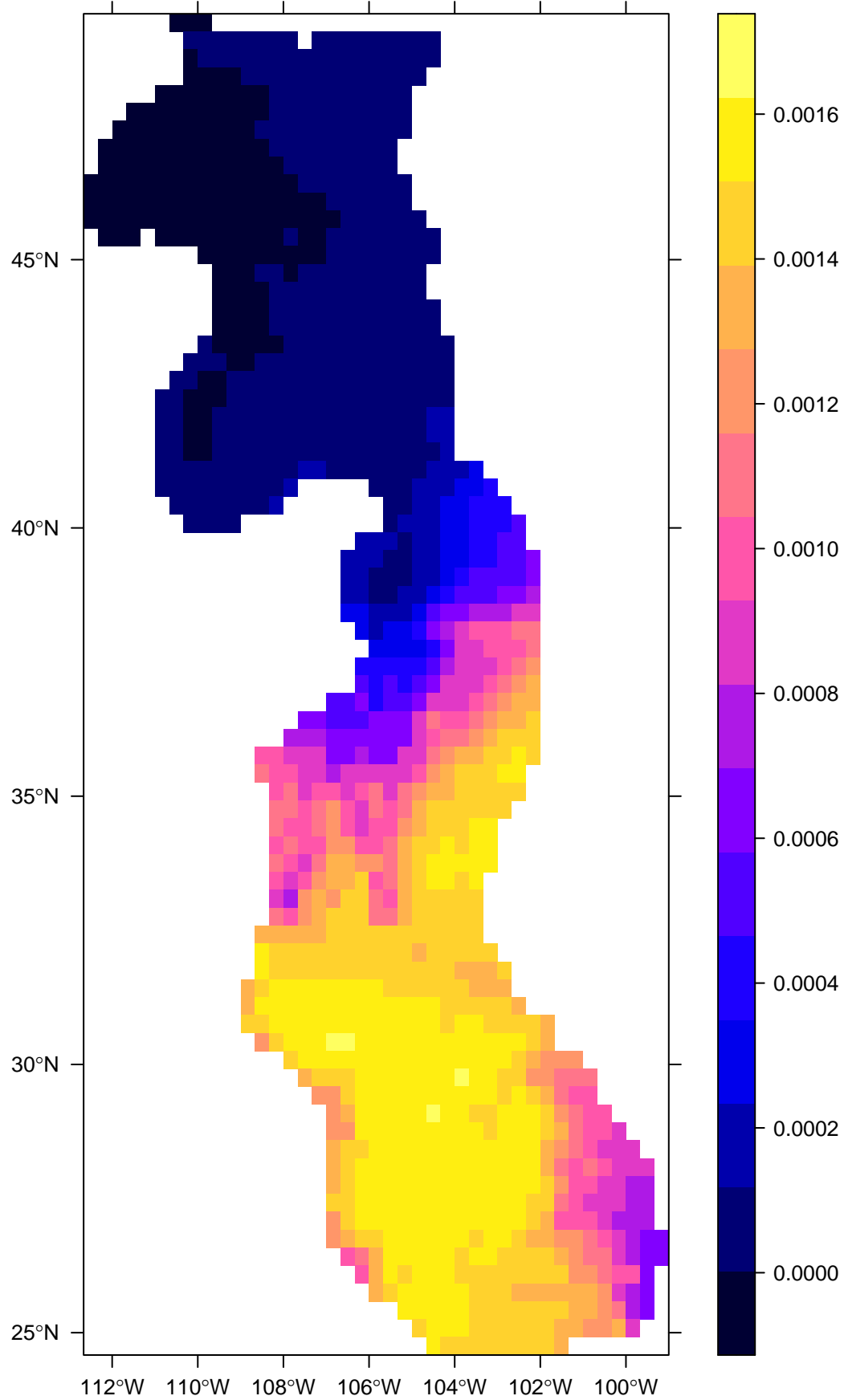
Probability Density Surface for juv_YR02_60



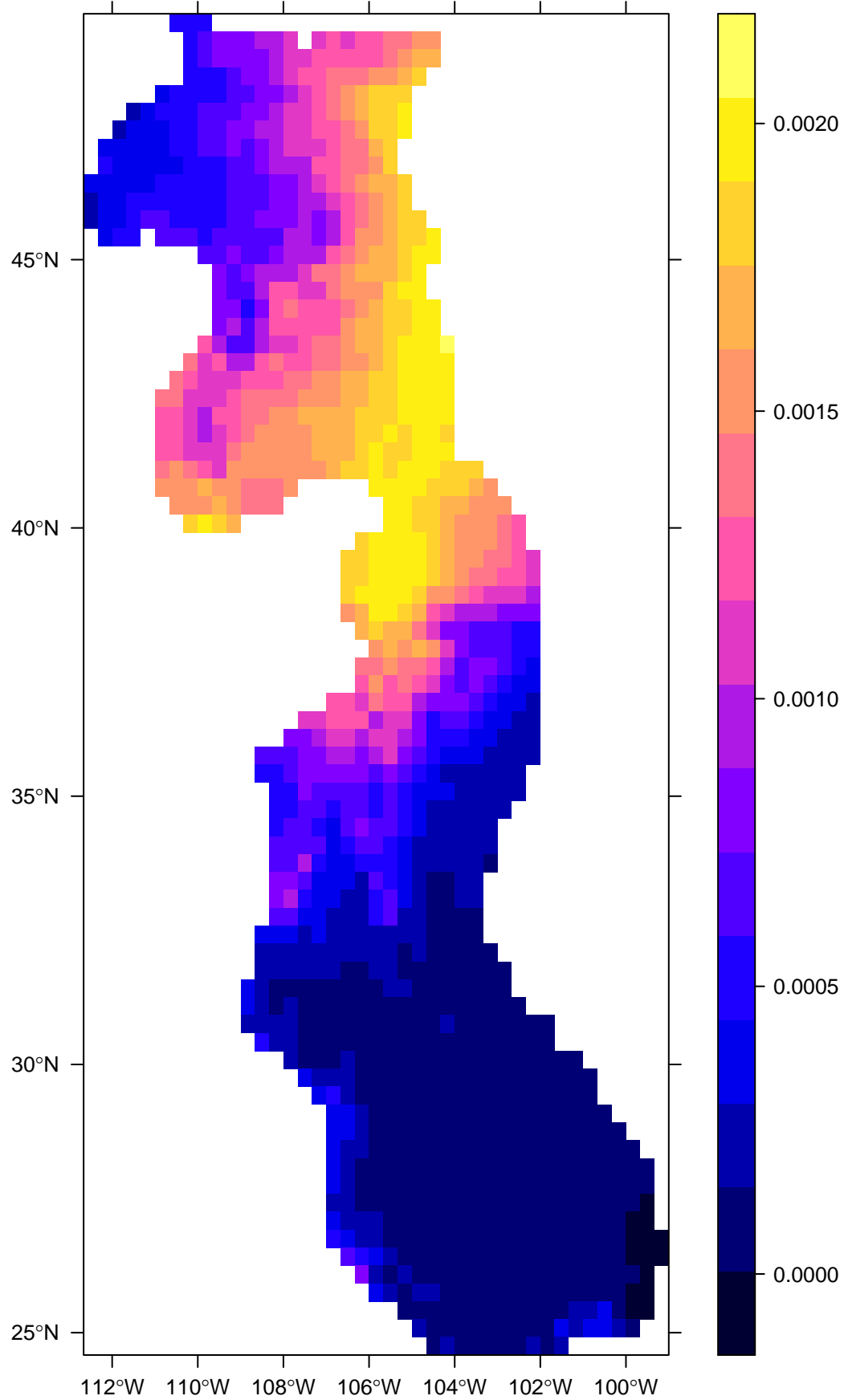
Probability Density Surface for juv_YR02_61



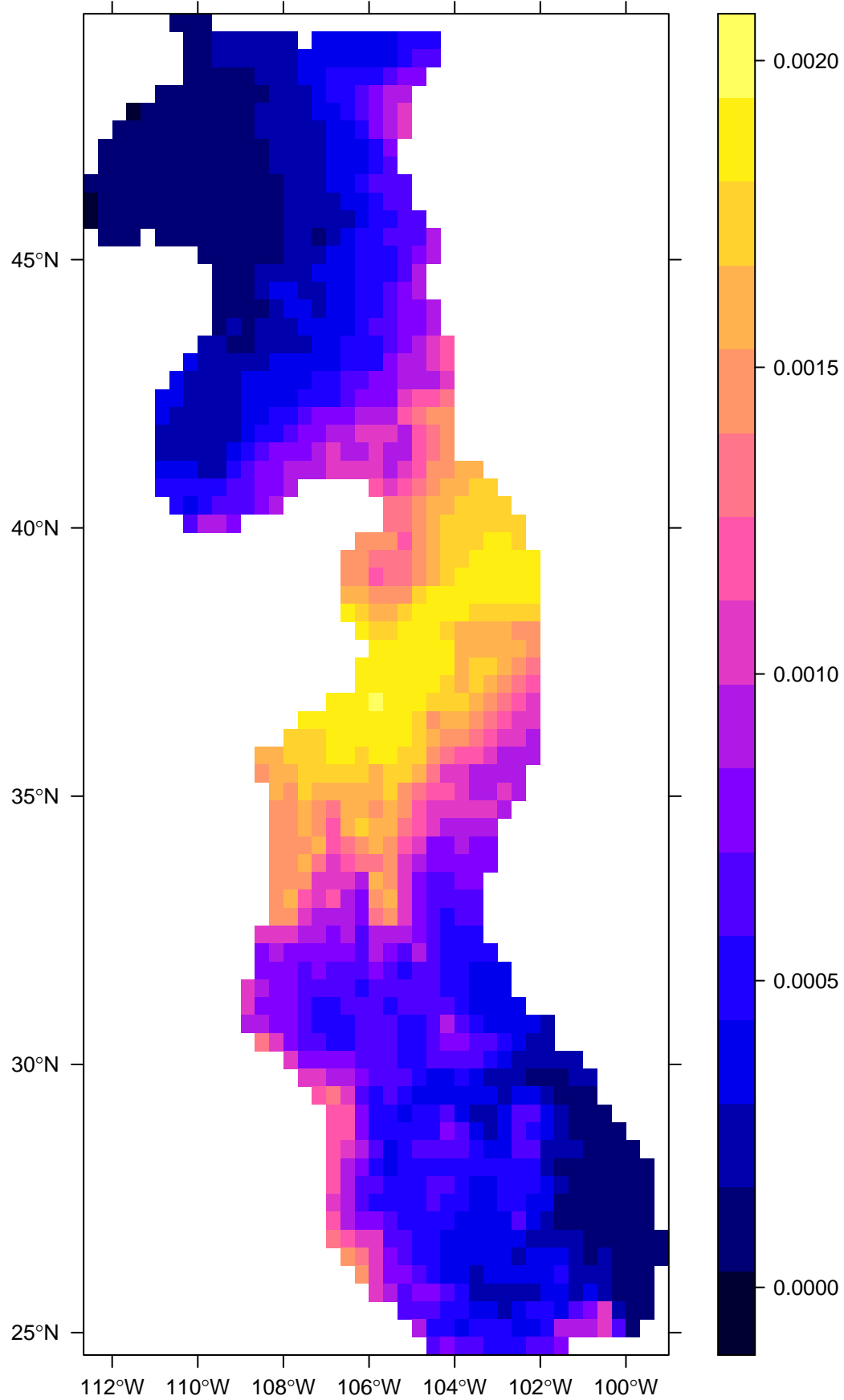
Probability Density Surface for juv_YR02_62



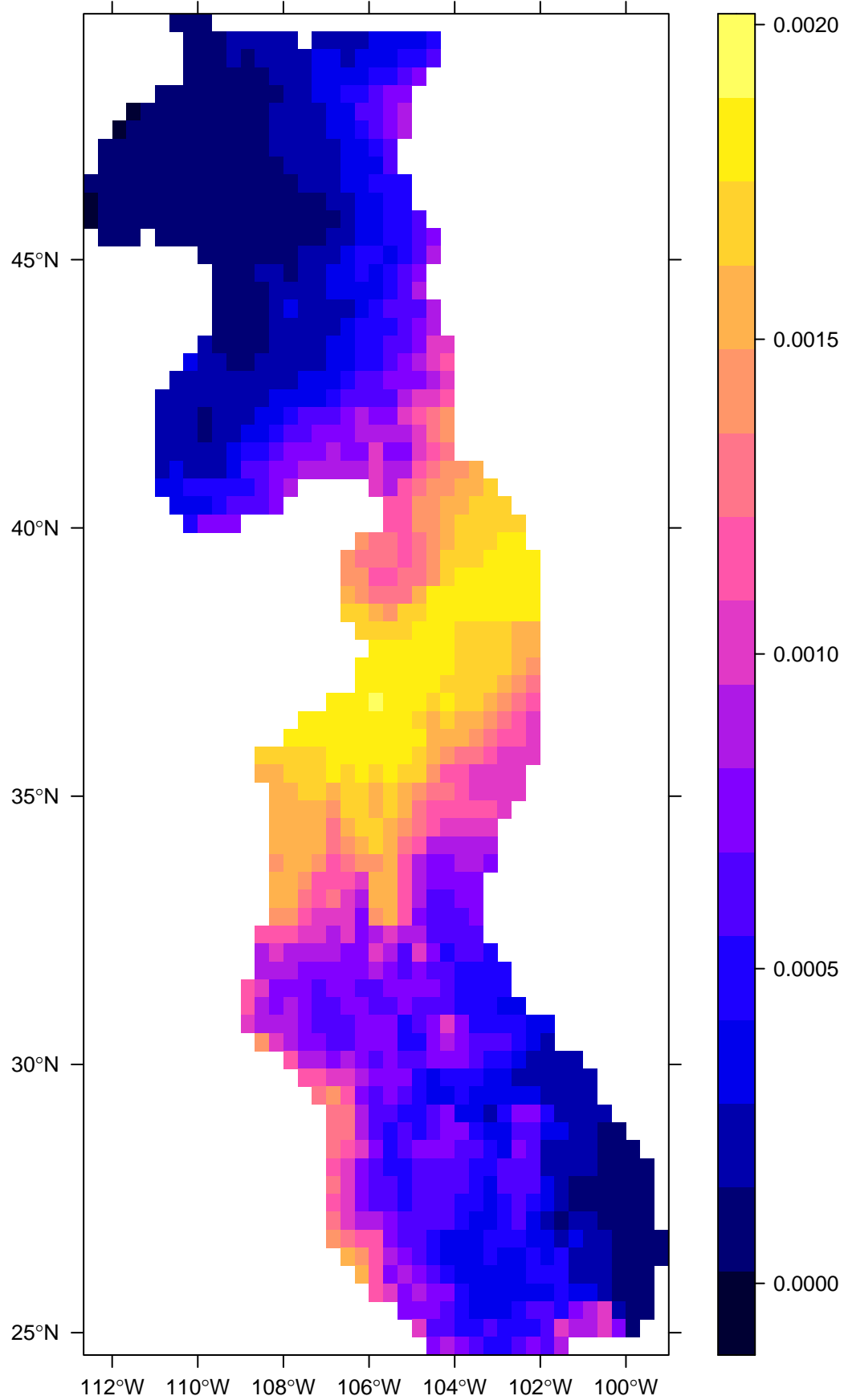
Probability Density Surface for juv_YR02_63



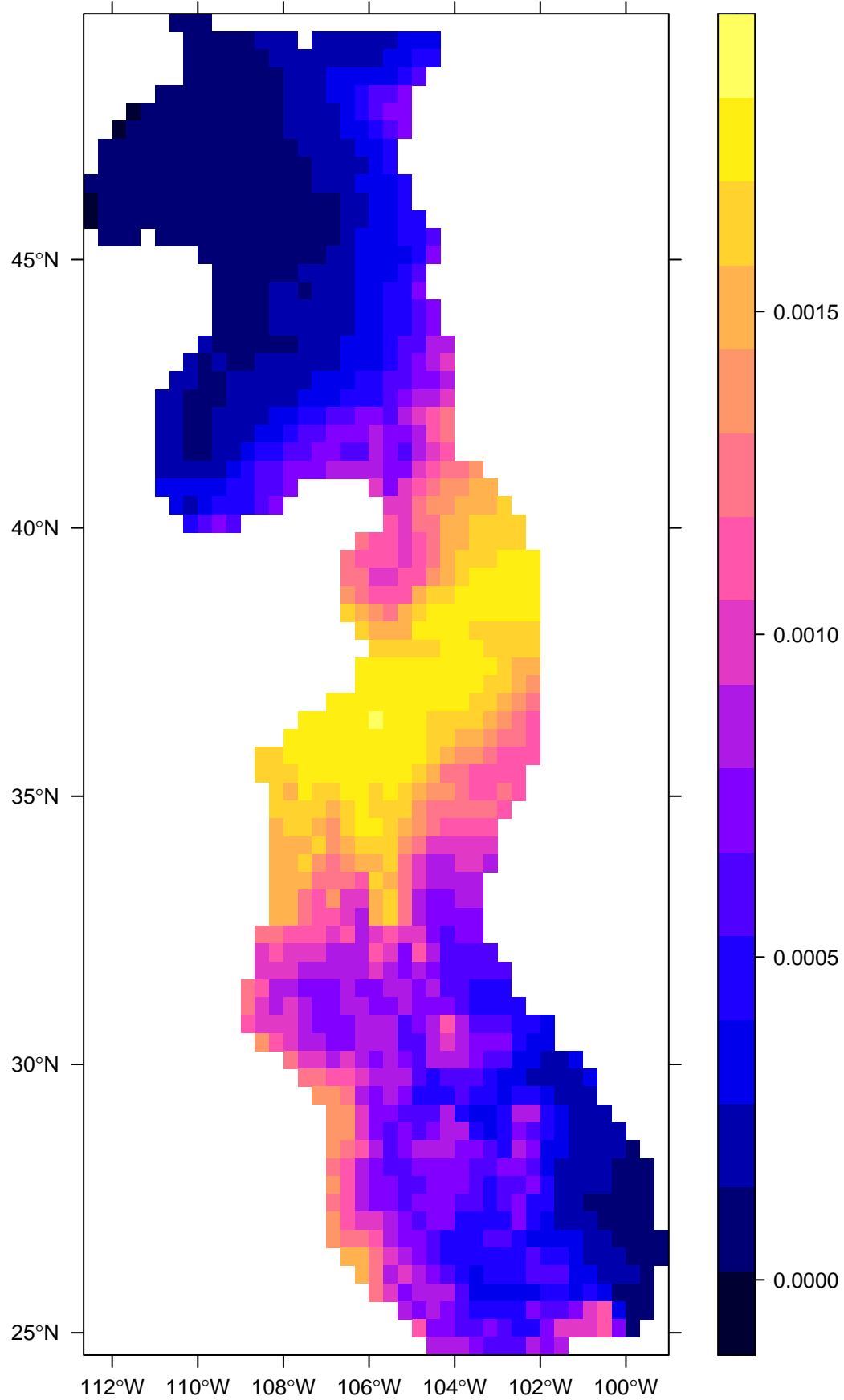
Probability Density Surface for juv_YR03_01



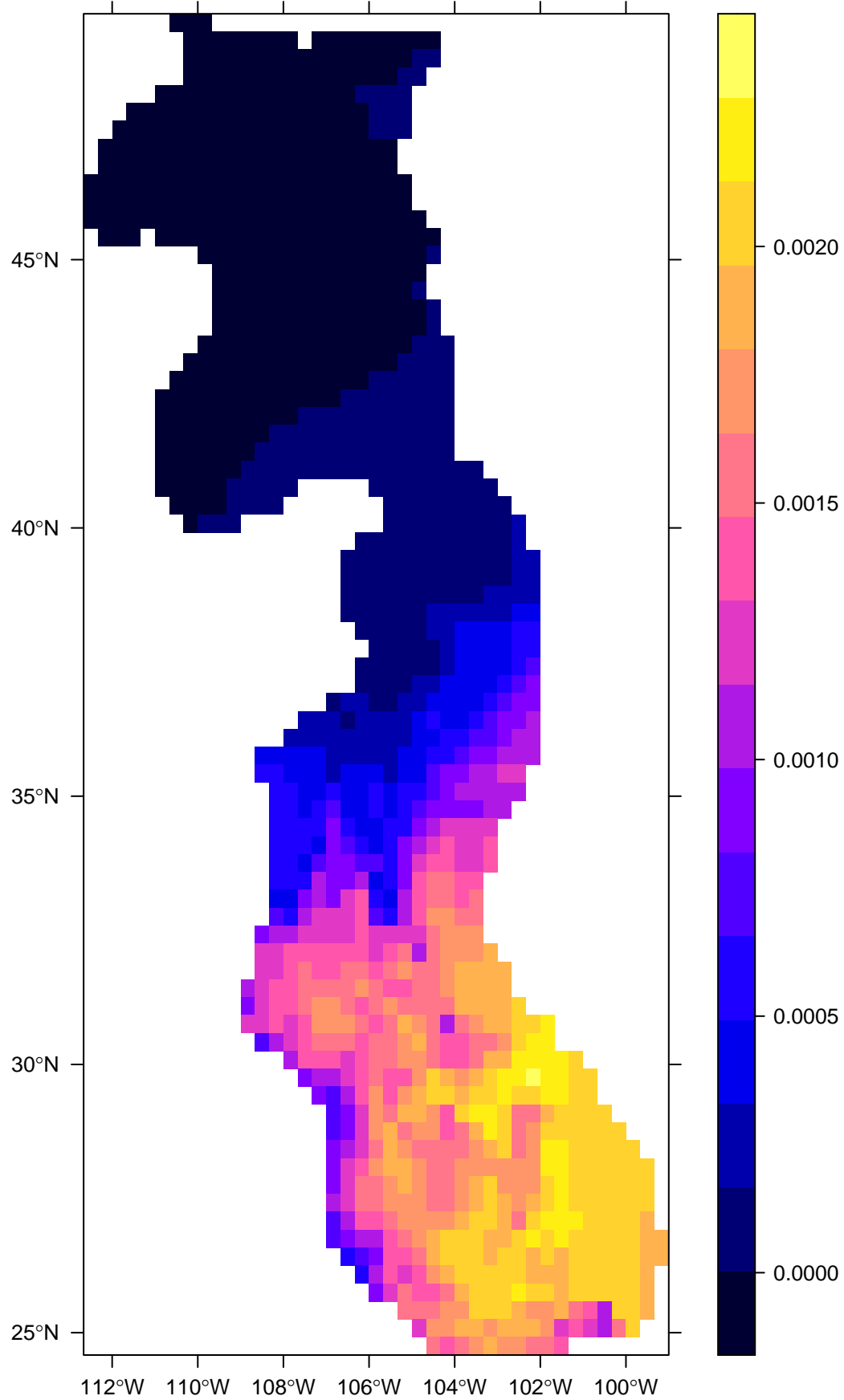
Probability Density Surface for juv_YR03_02



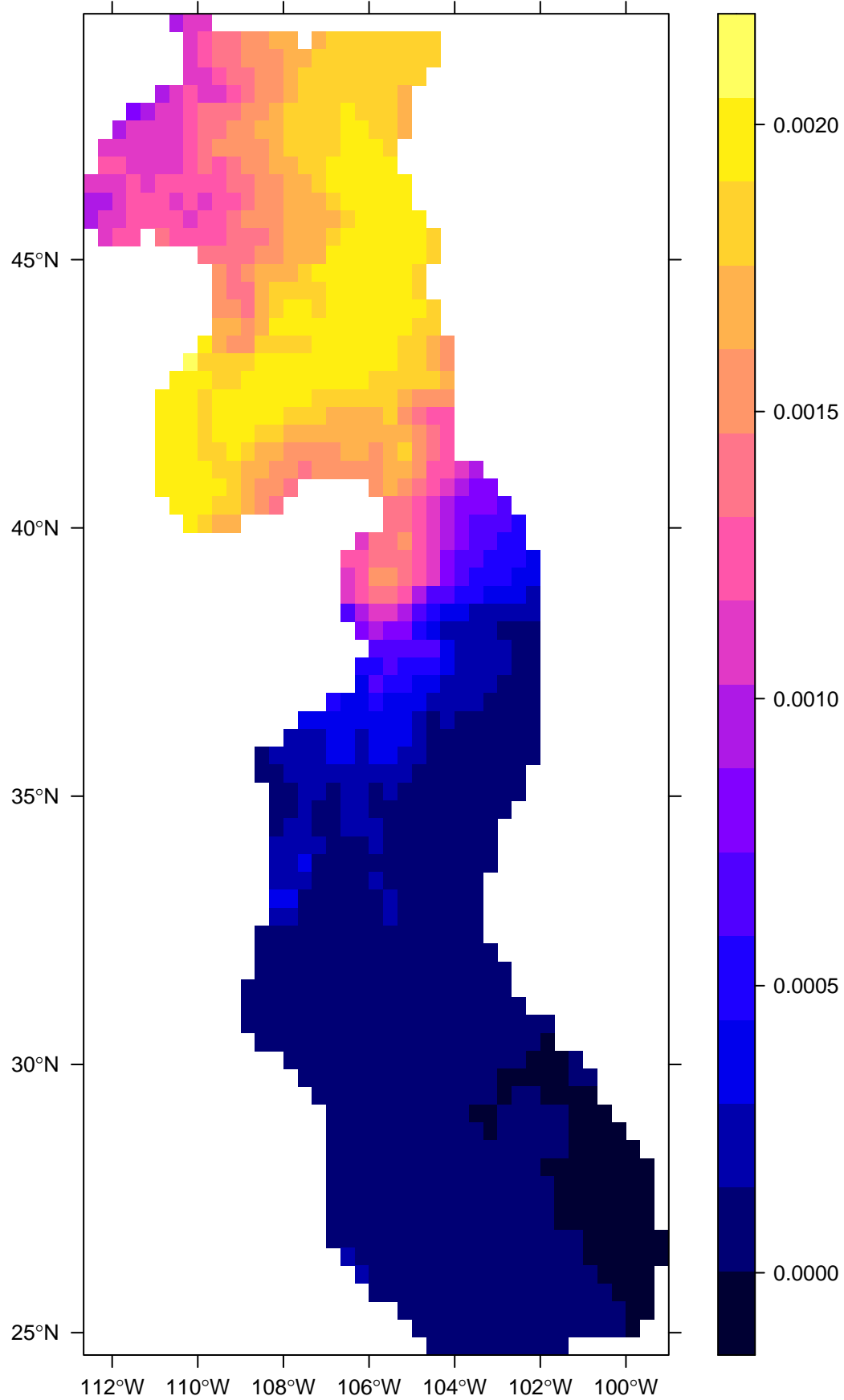
Probability Density Surface for juv_YR03_03



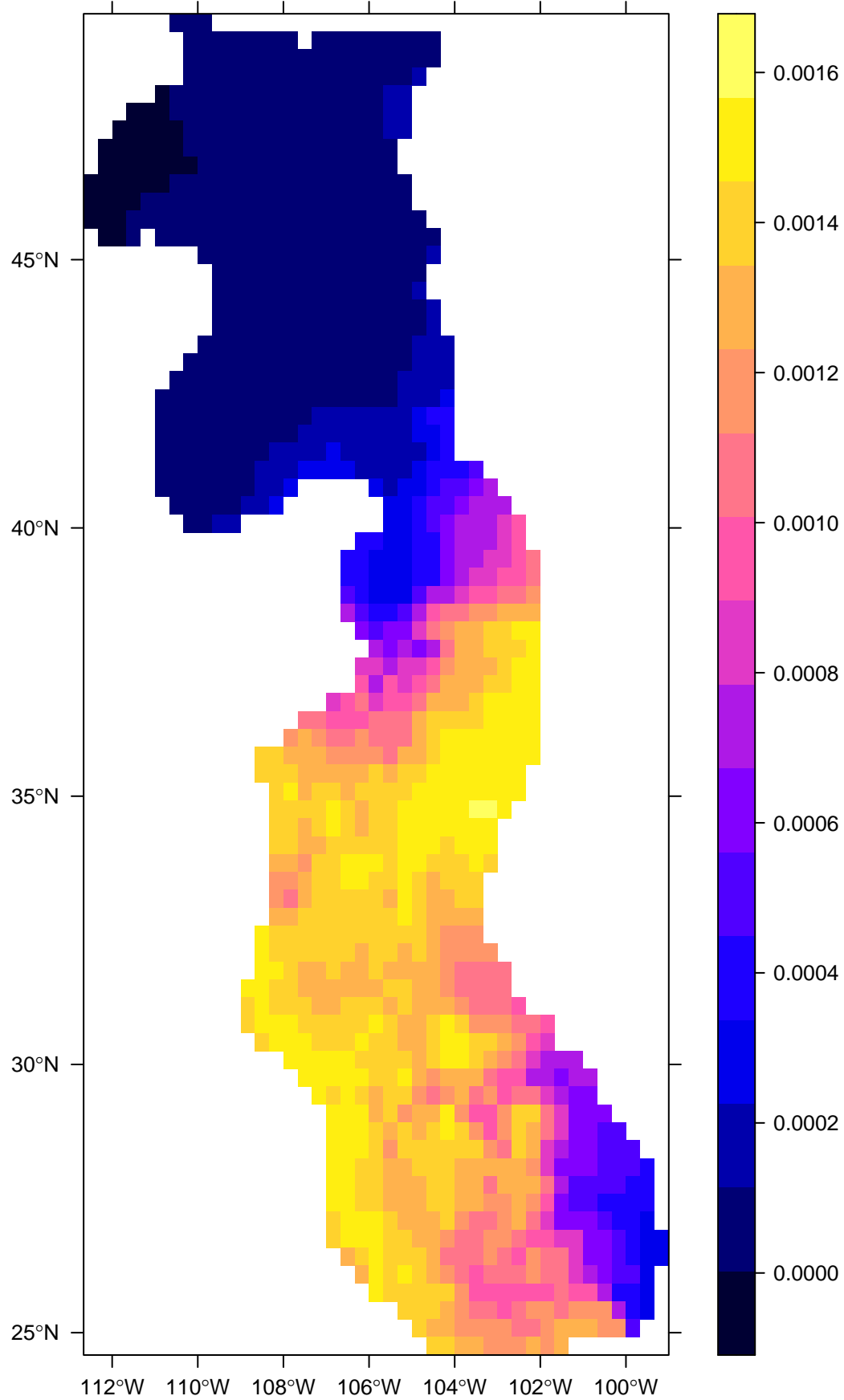
Probability Density Surface for juv_YR03_04



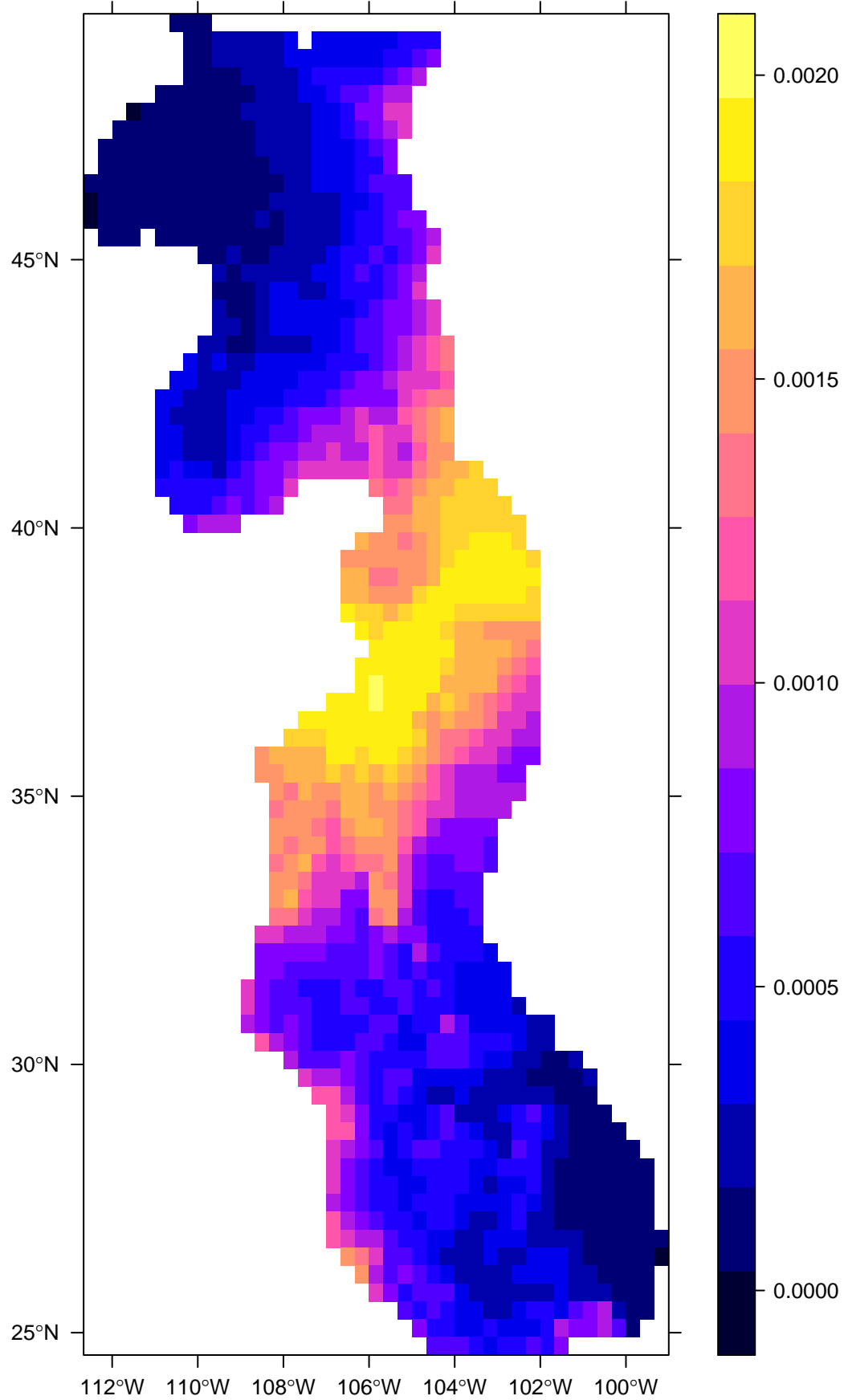
Probability Density Surface for juv_YR03_05



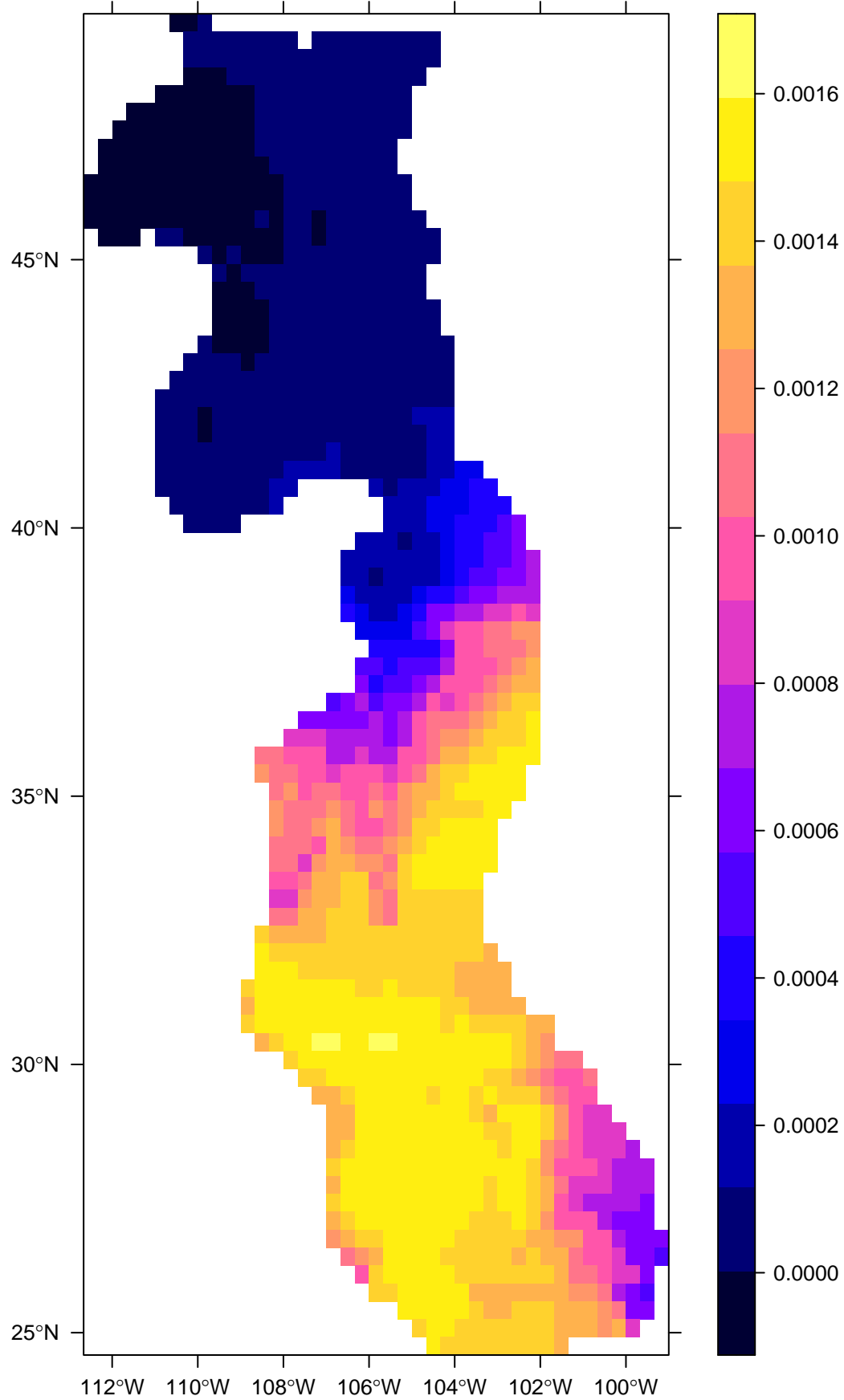
Probability Density Surface for juv_YR03_06



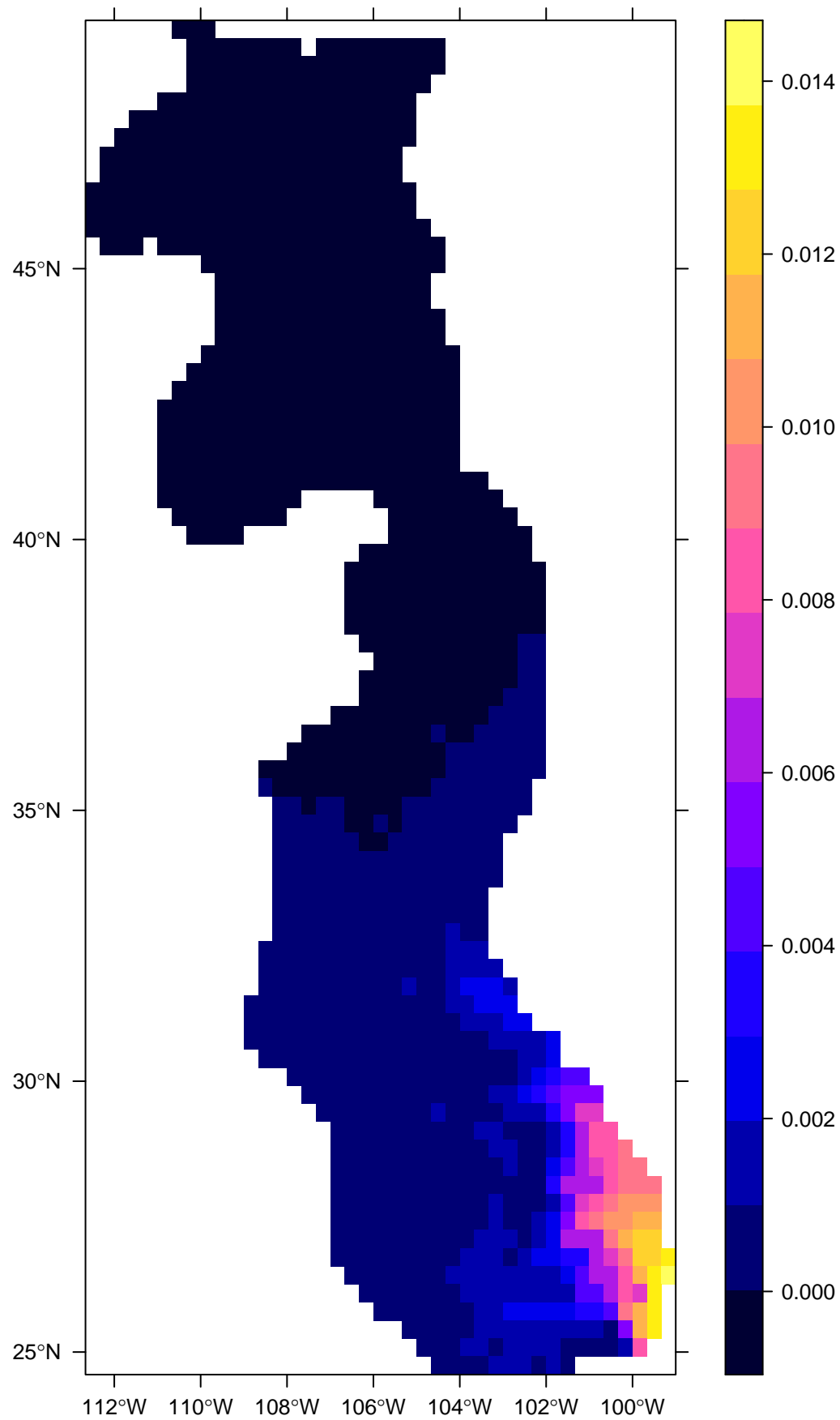
Probability Density Surface for juv_YR03_07



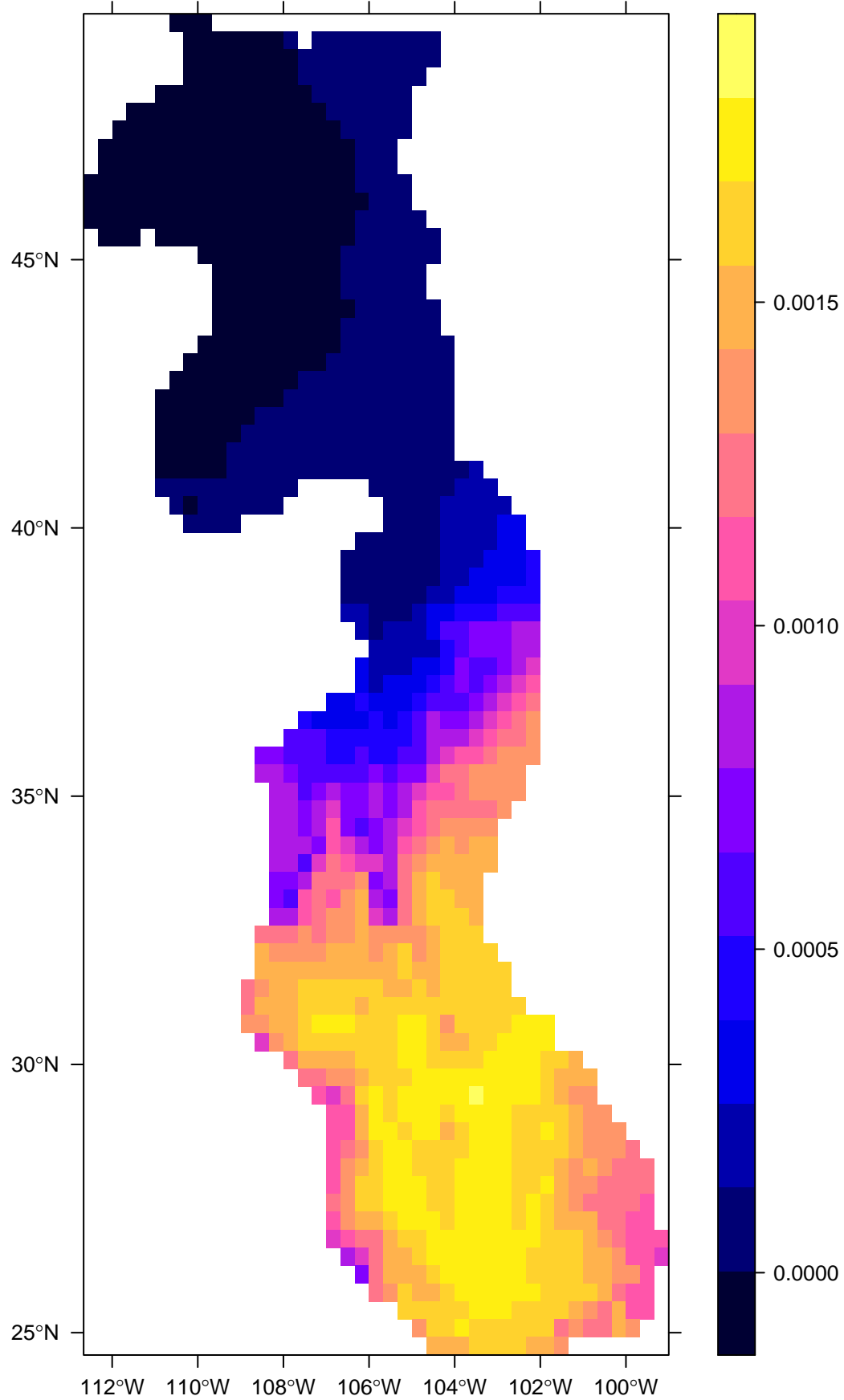
Probability Density Surface for juv_YR03_08



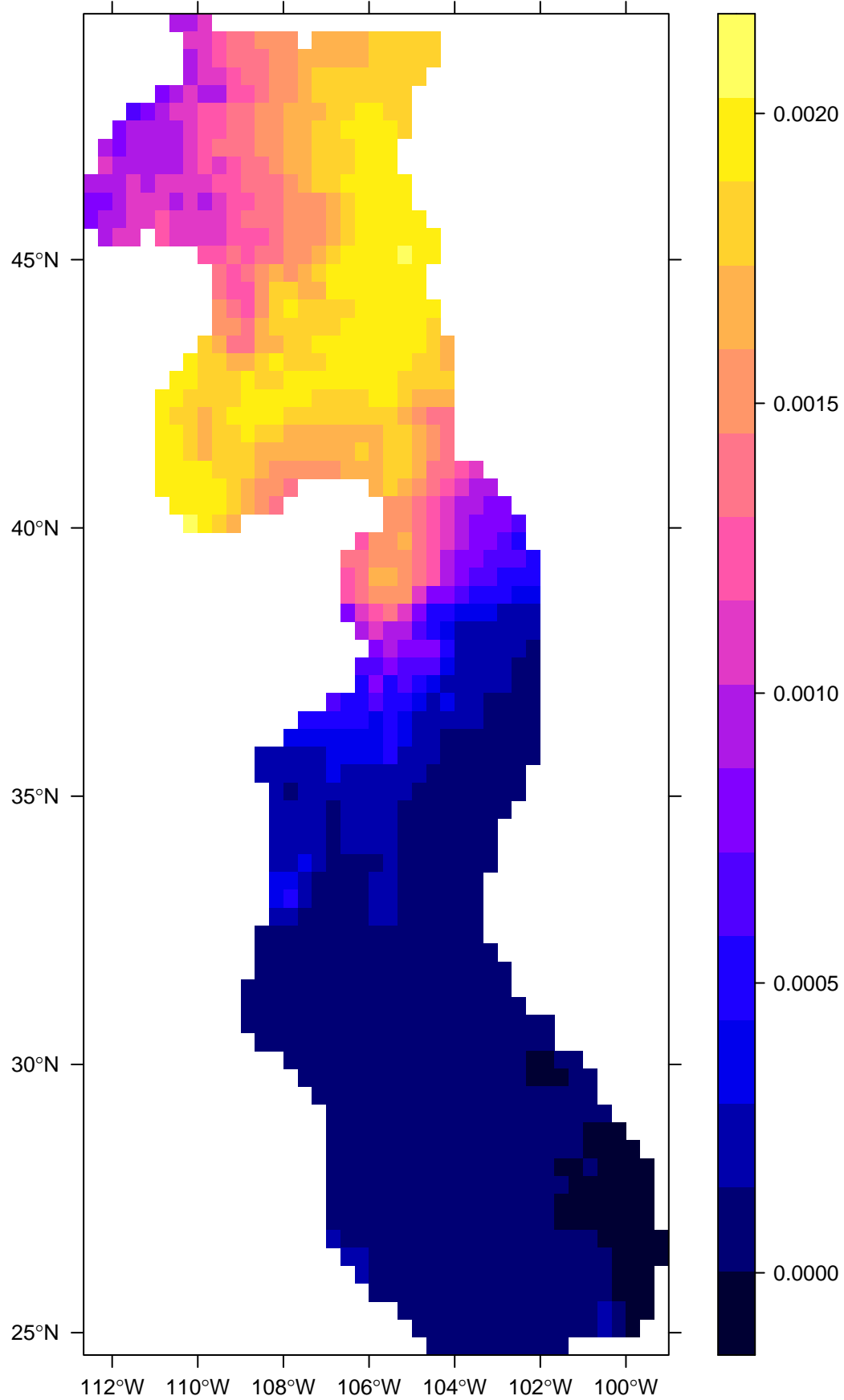
Probability Density Surface for juv_YR03_09



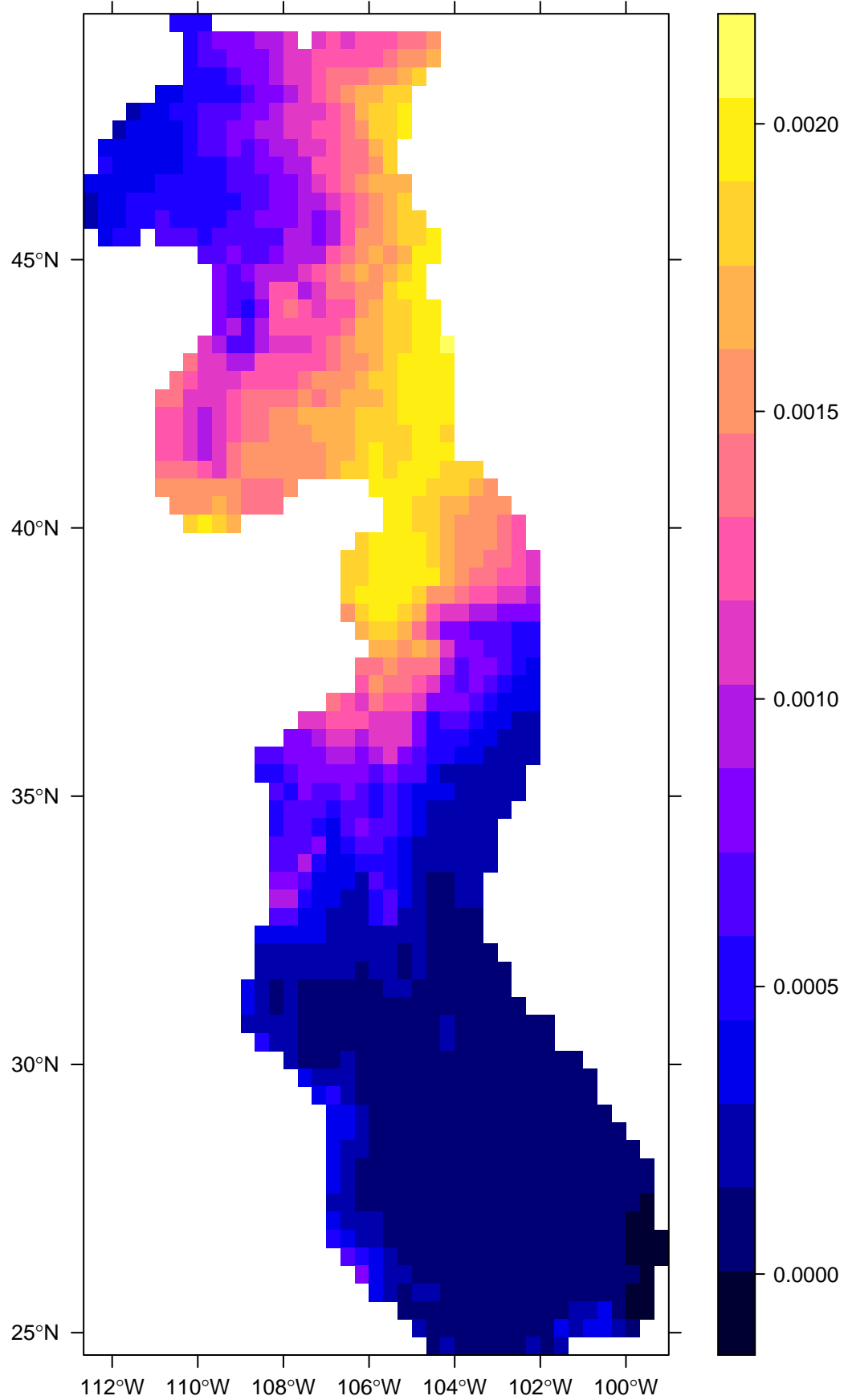
Probability Density Surface for juv_YR03_10



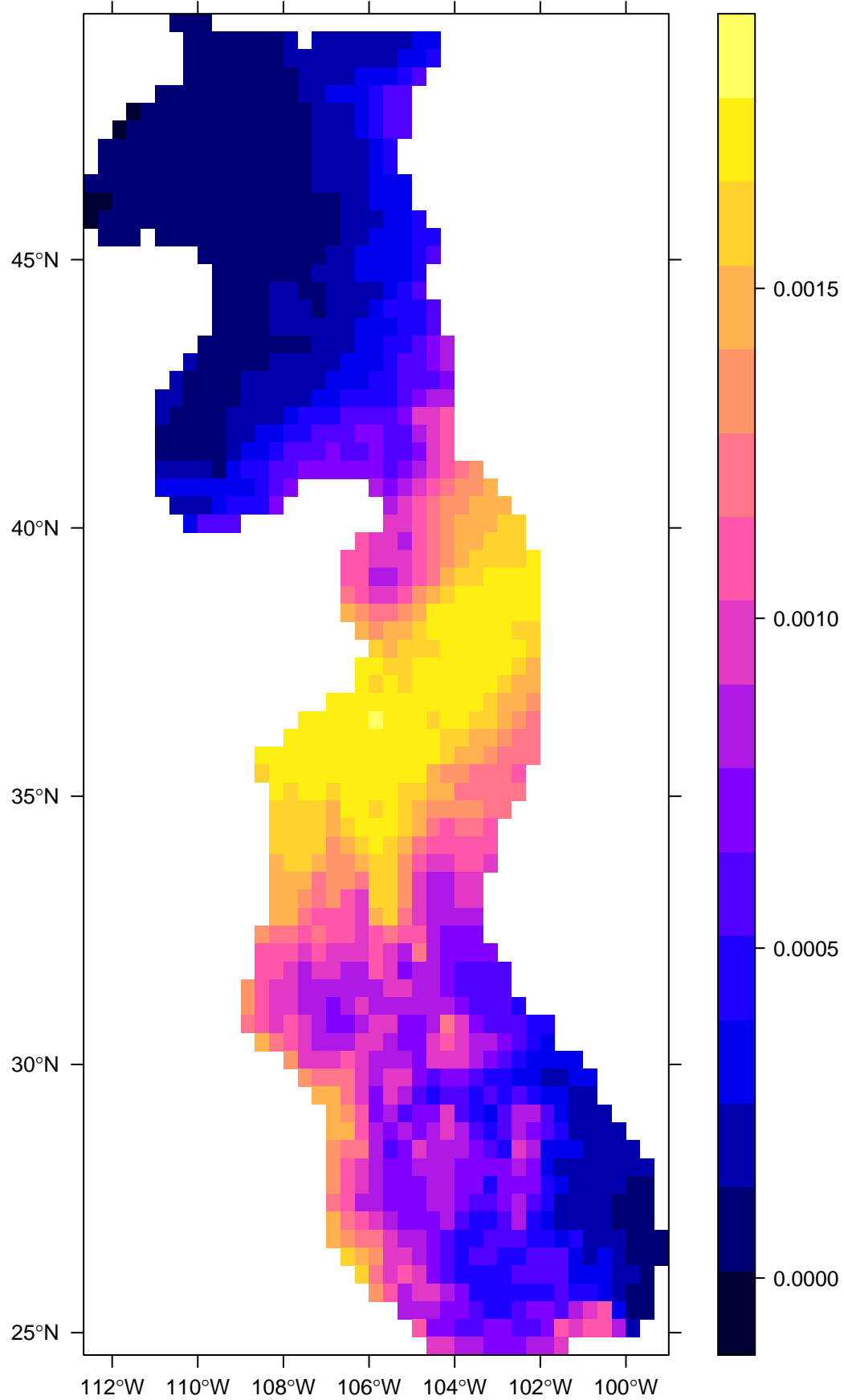
Probability Density Surface for juv_YR03_11



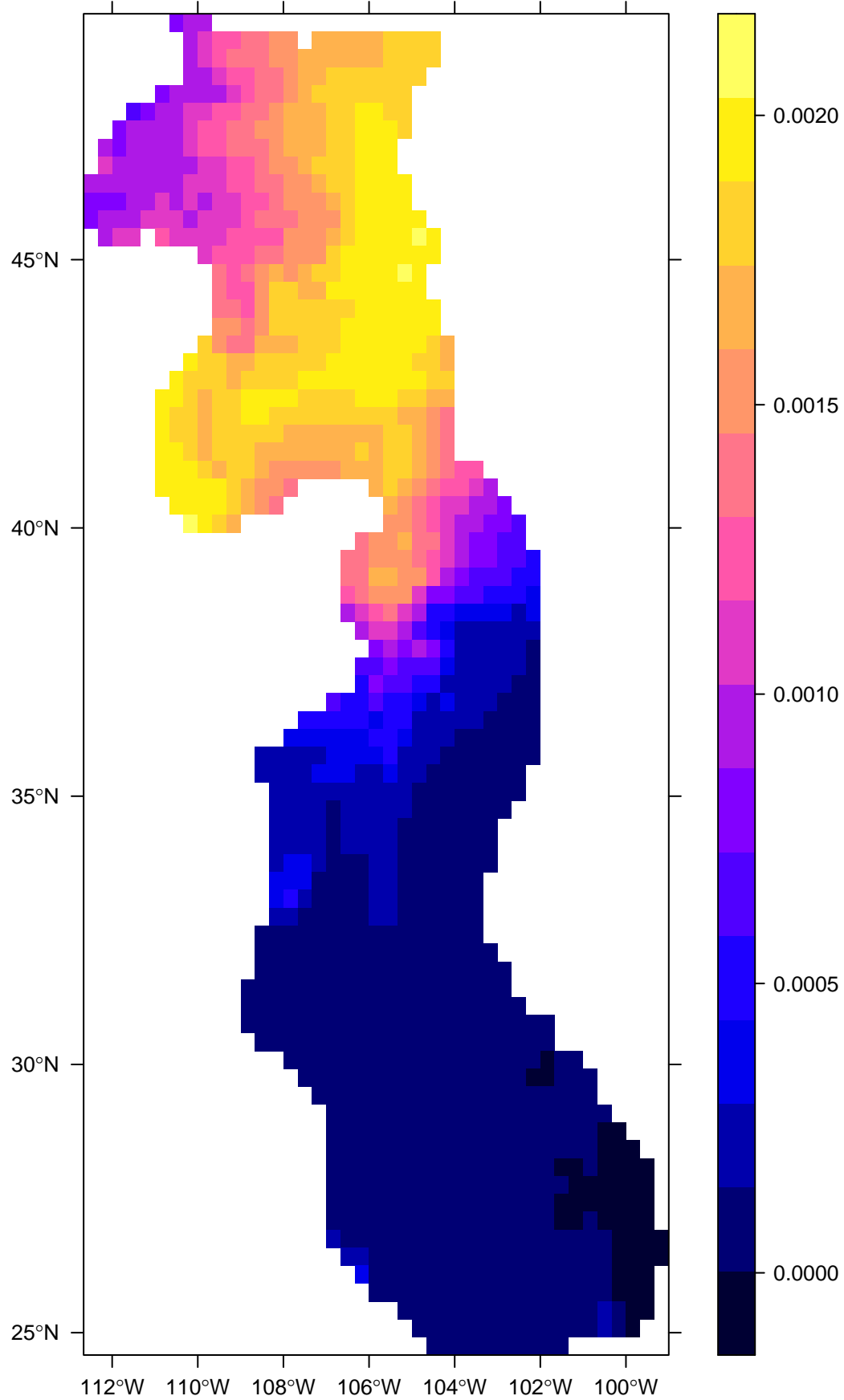
Probability Density Surface for juv_YR03_12



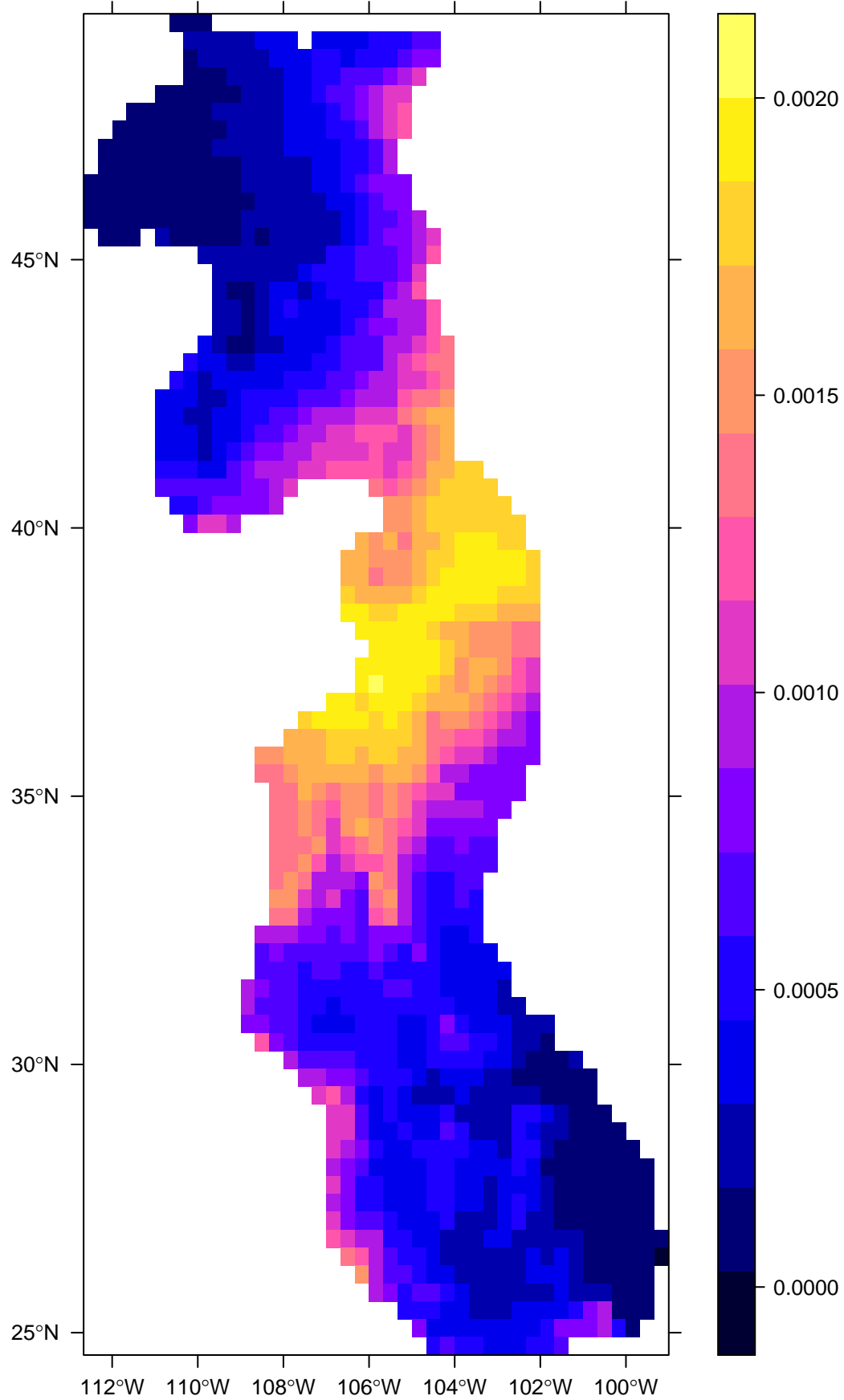
Probability Density Surface for juv_YR03_13



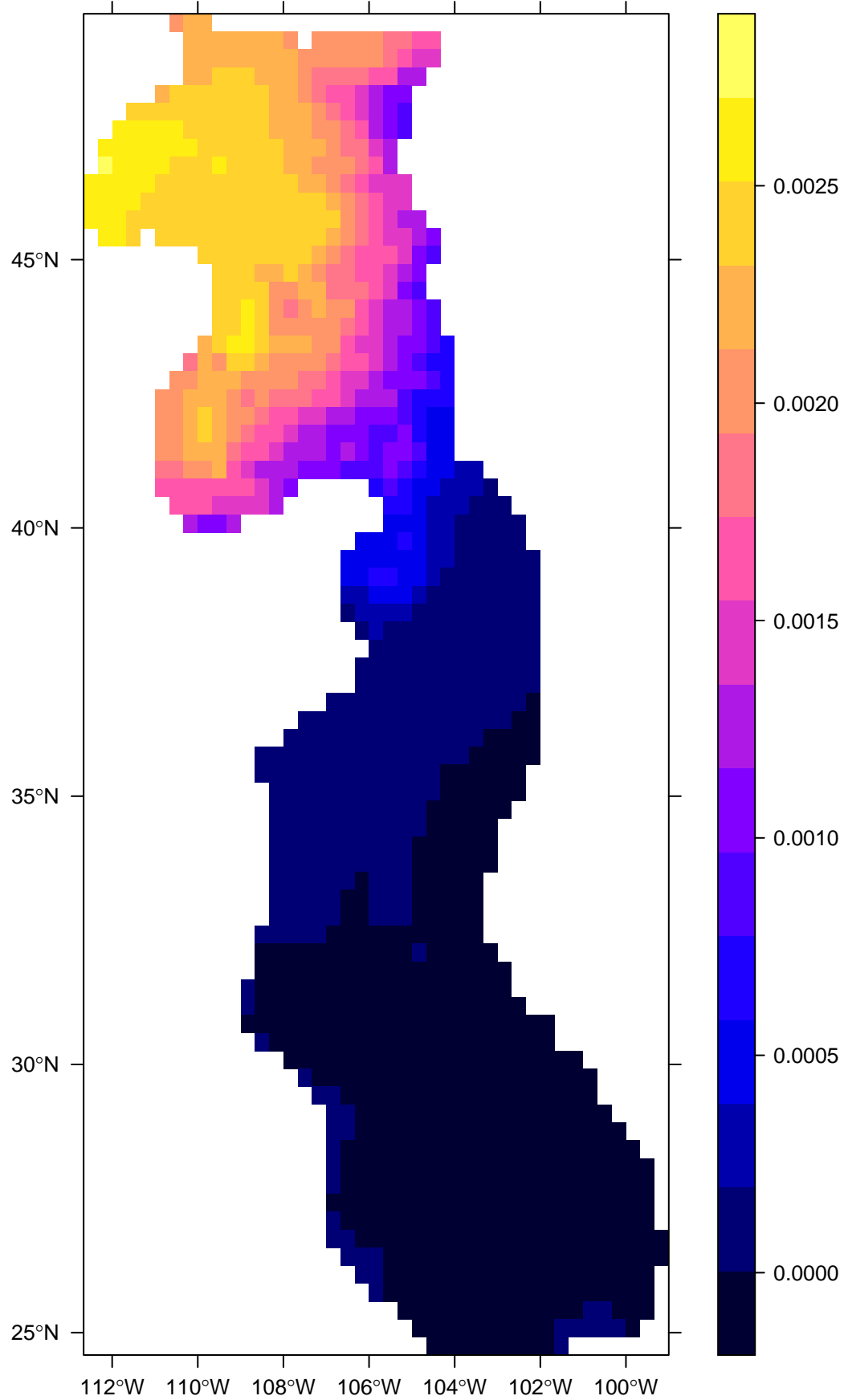
Probability Density Surface for juv_YR03_14



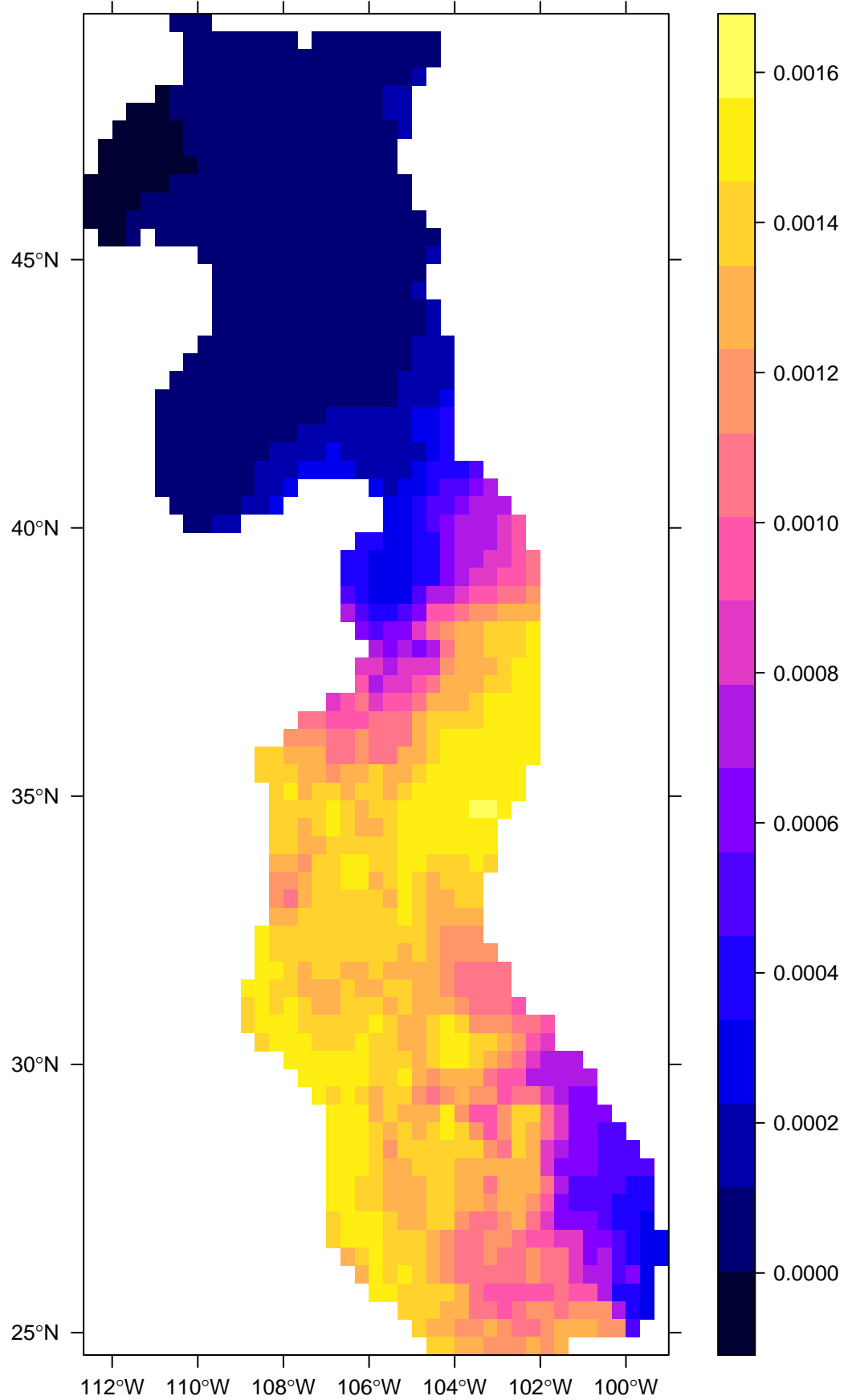
Probability Density Surface for juv_YR03_15



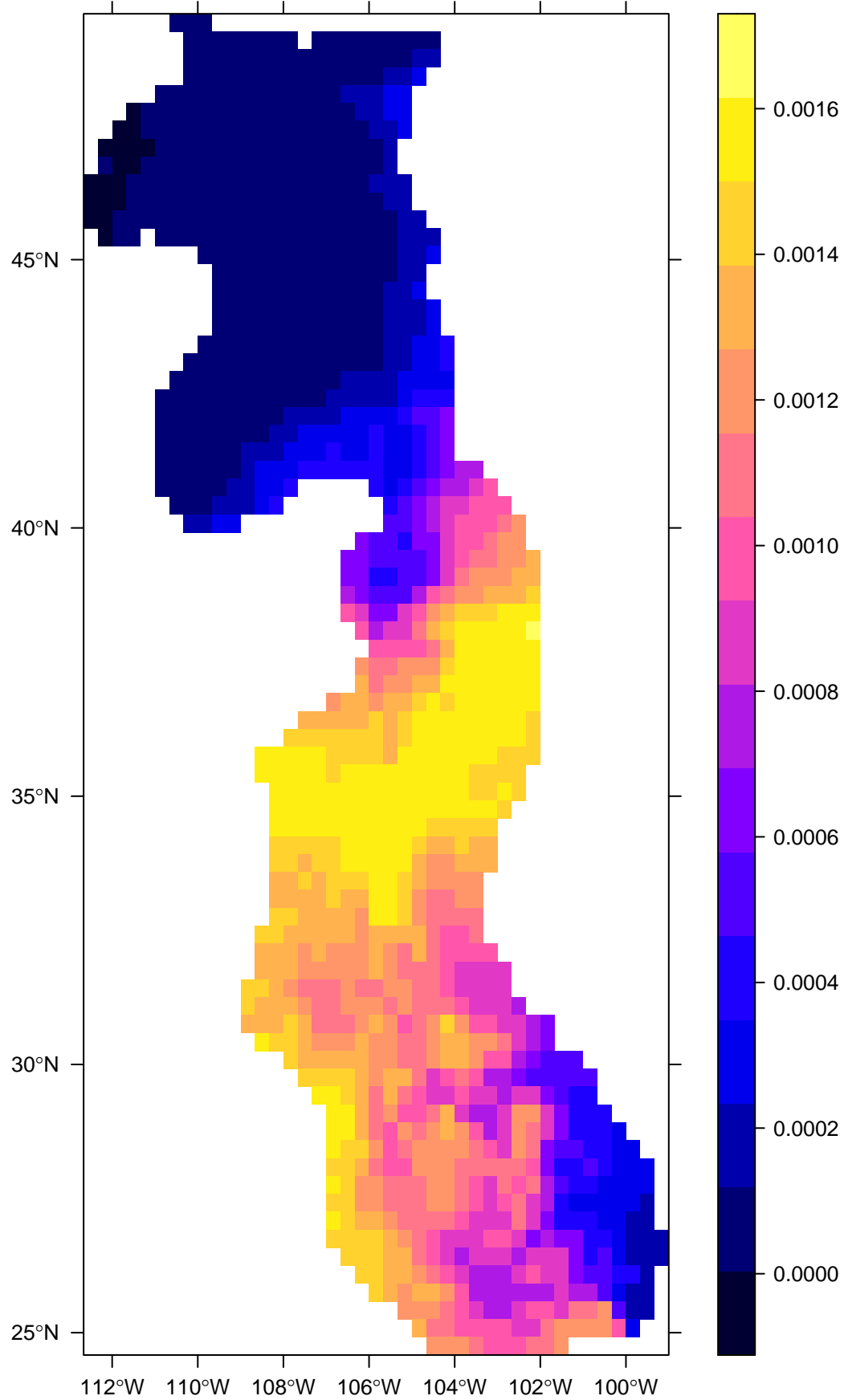
Probability Density Surface for juv_YR03_16



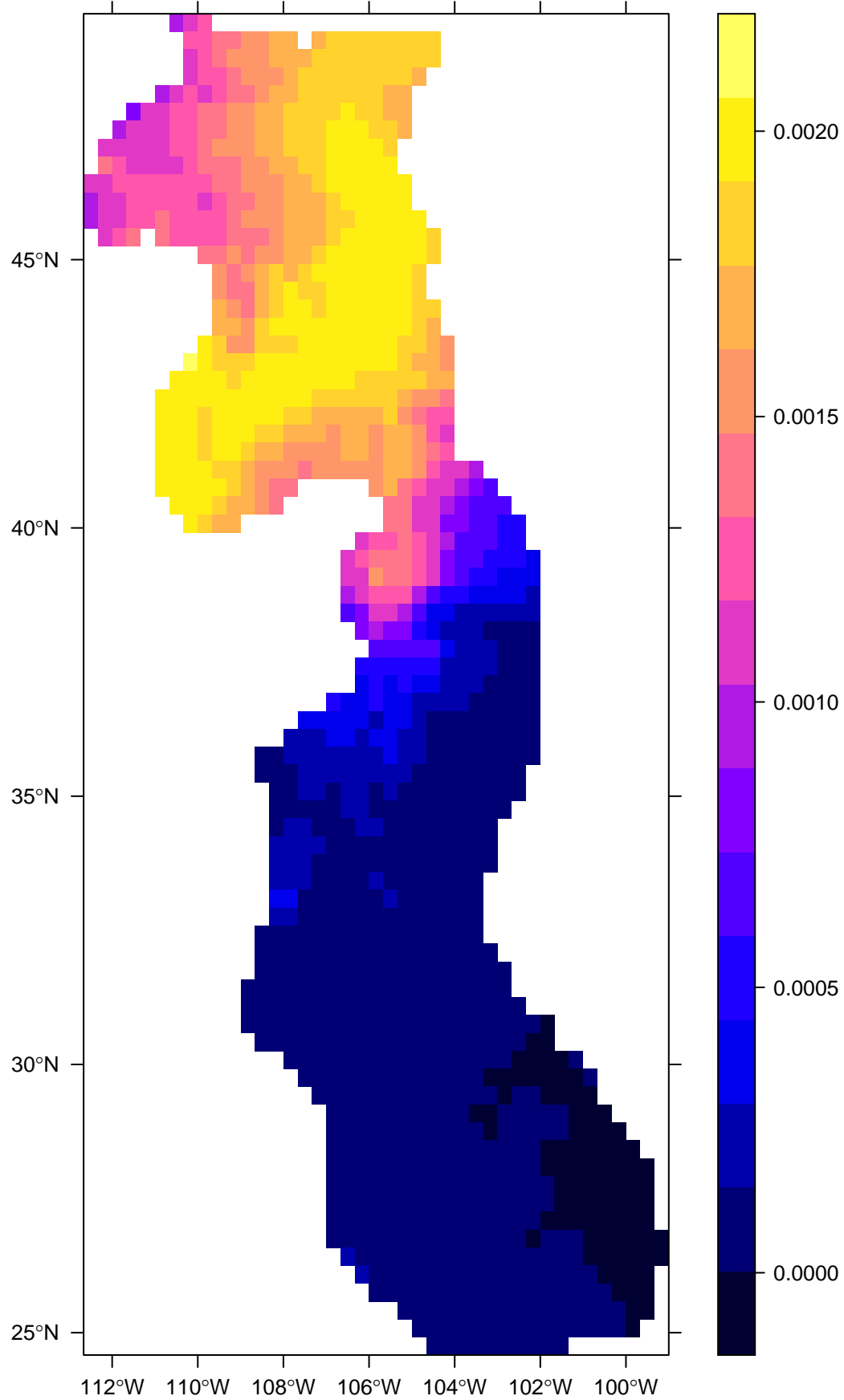
Probability Density Surface for juv_YR03_17



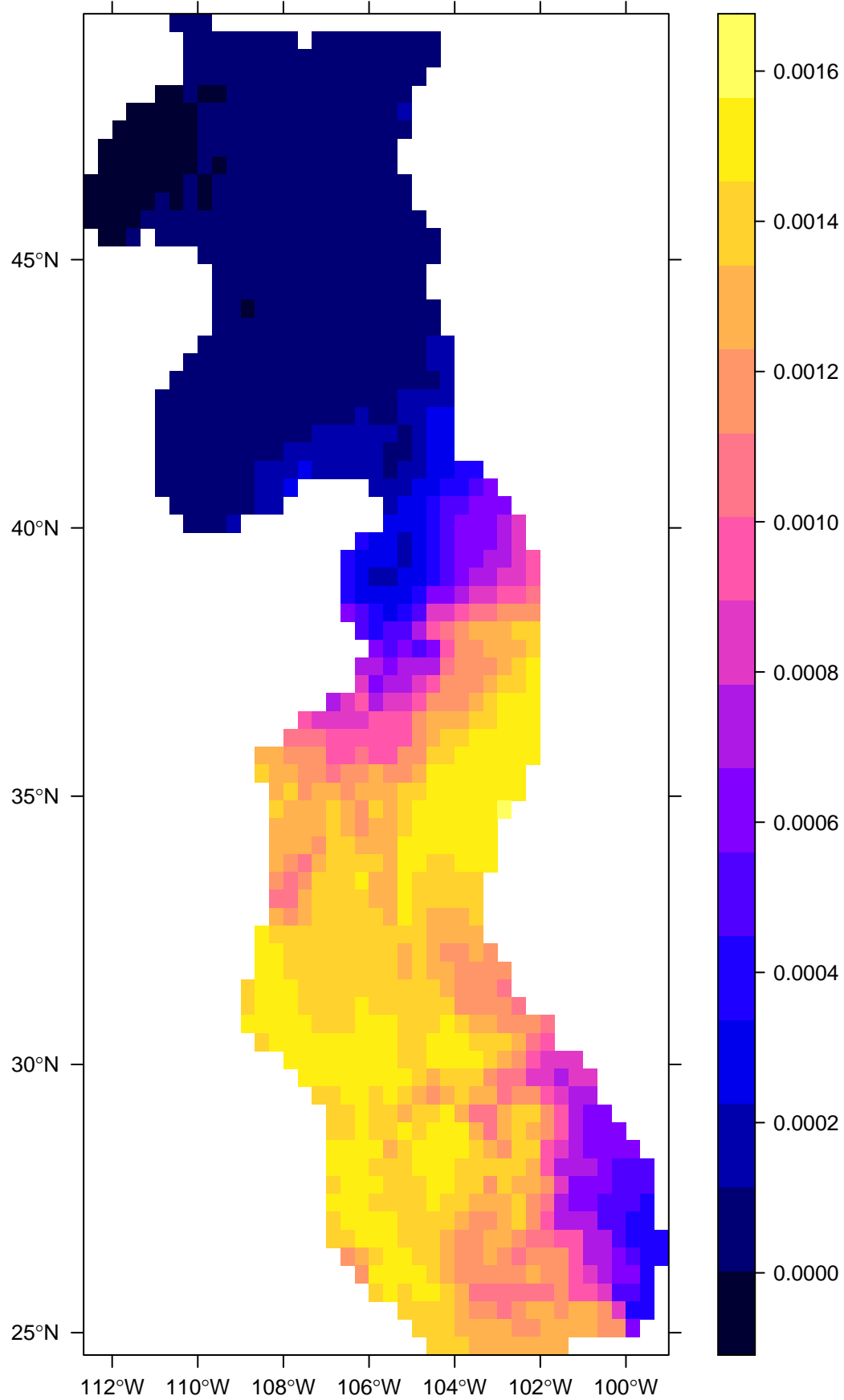
Probability Density Surface for juv_YR03_18



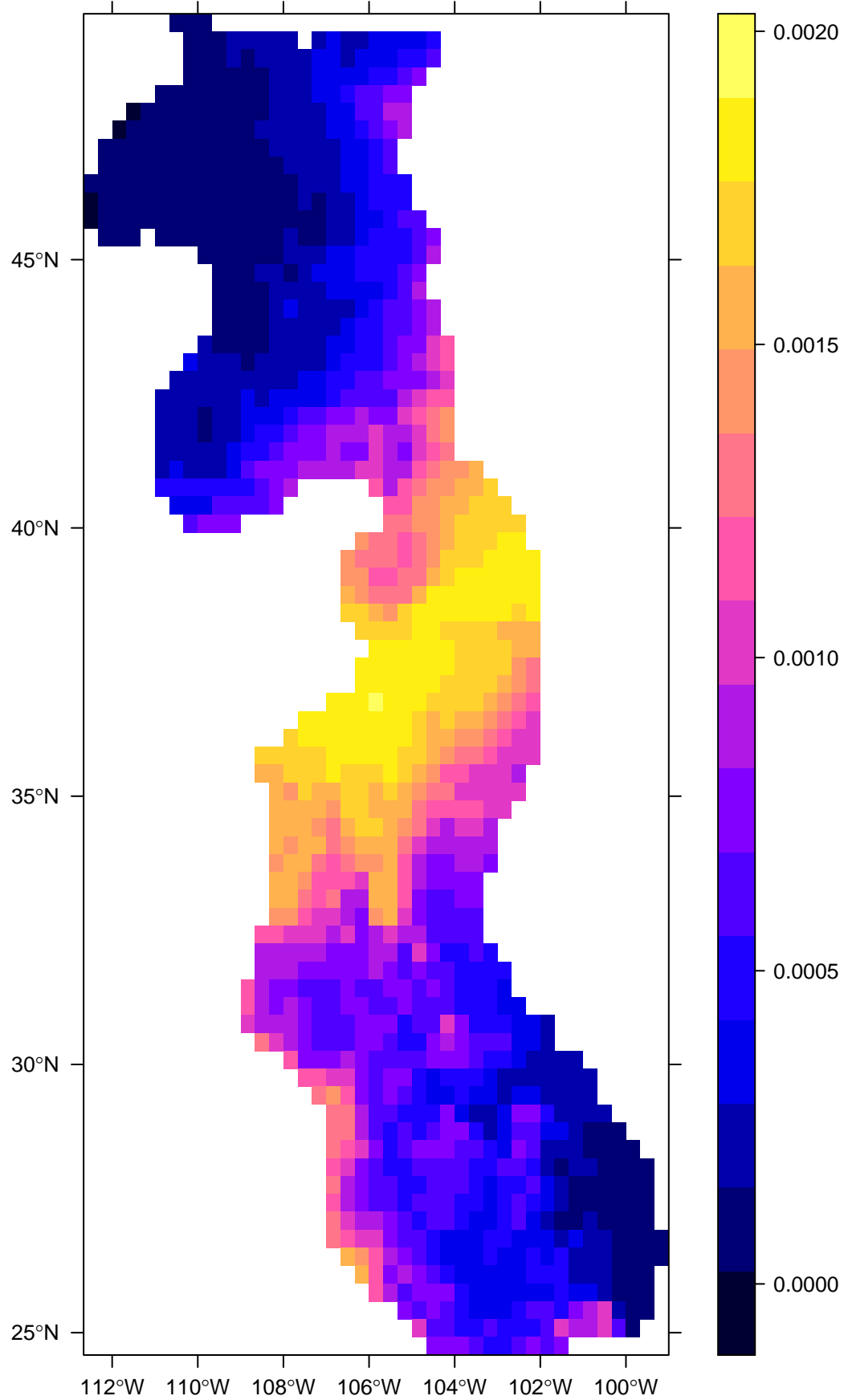
Probability Density Surface for juv_YR03_19



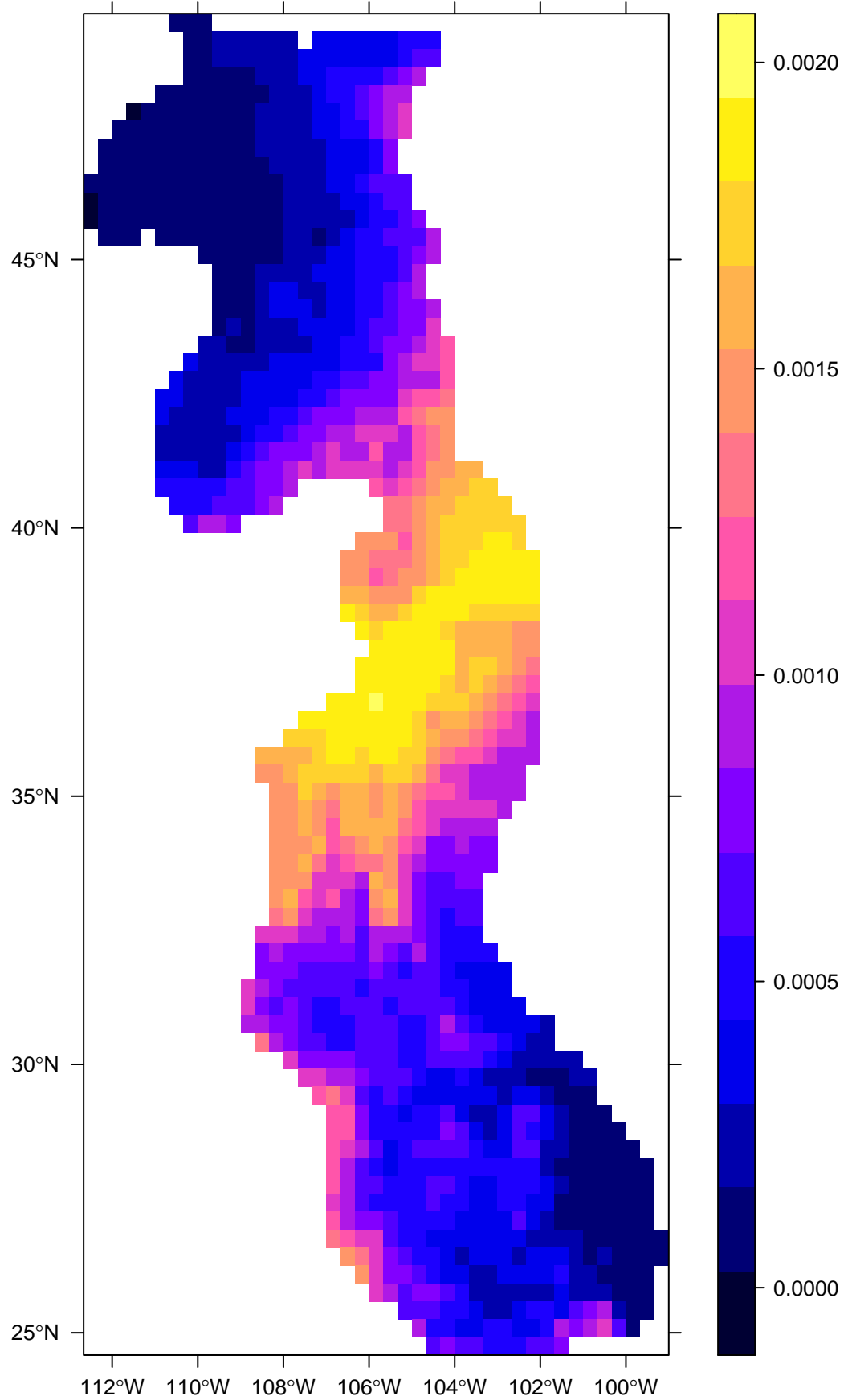
Probability Density Surface for juv_YR03_20



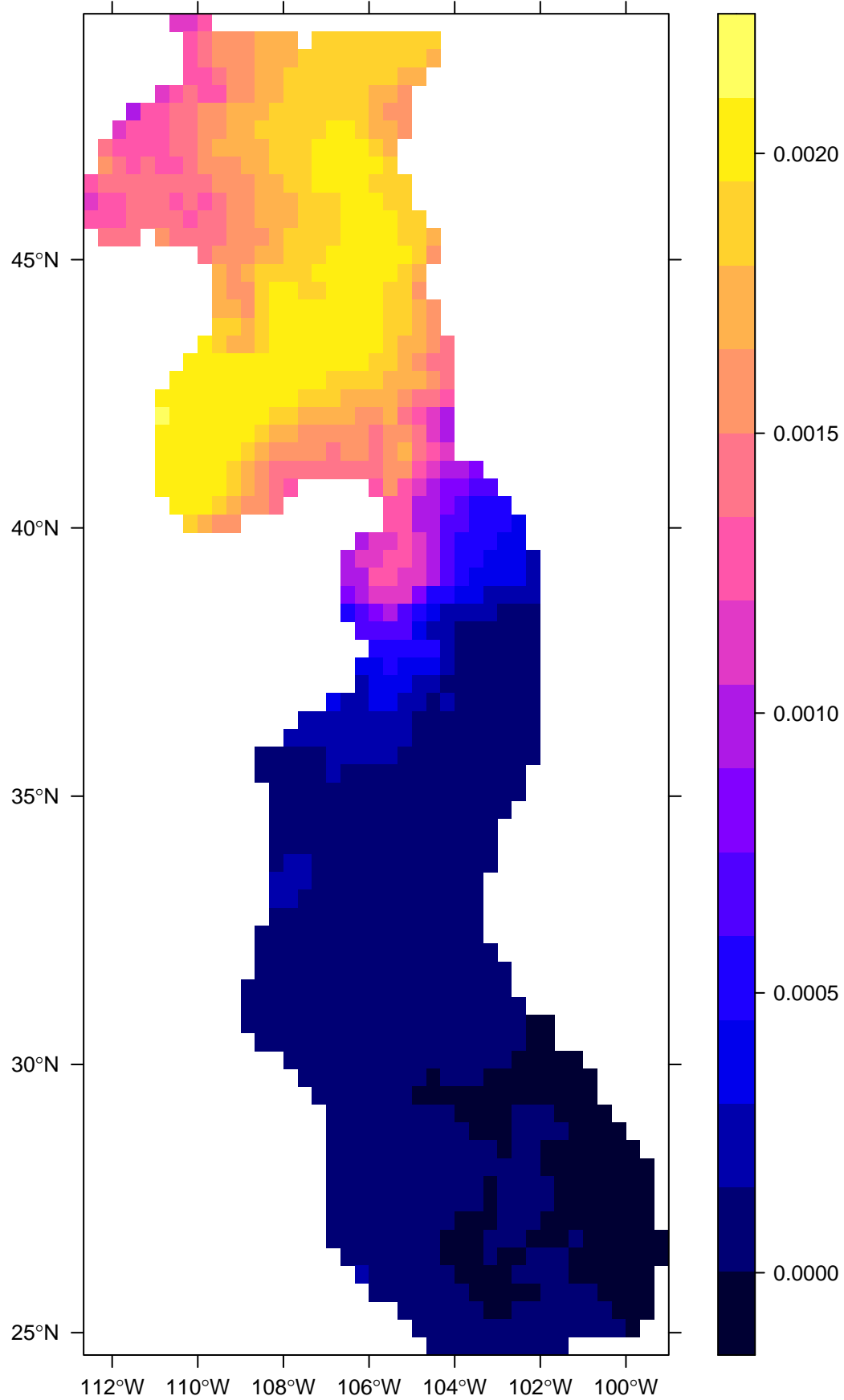
Probability Density Surface for juv_YR03_21



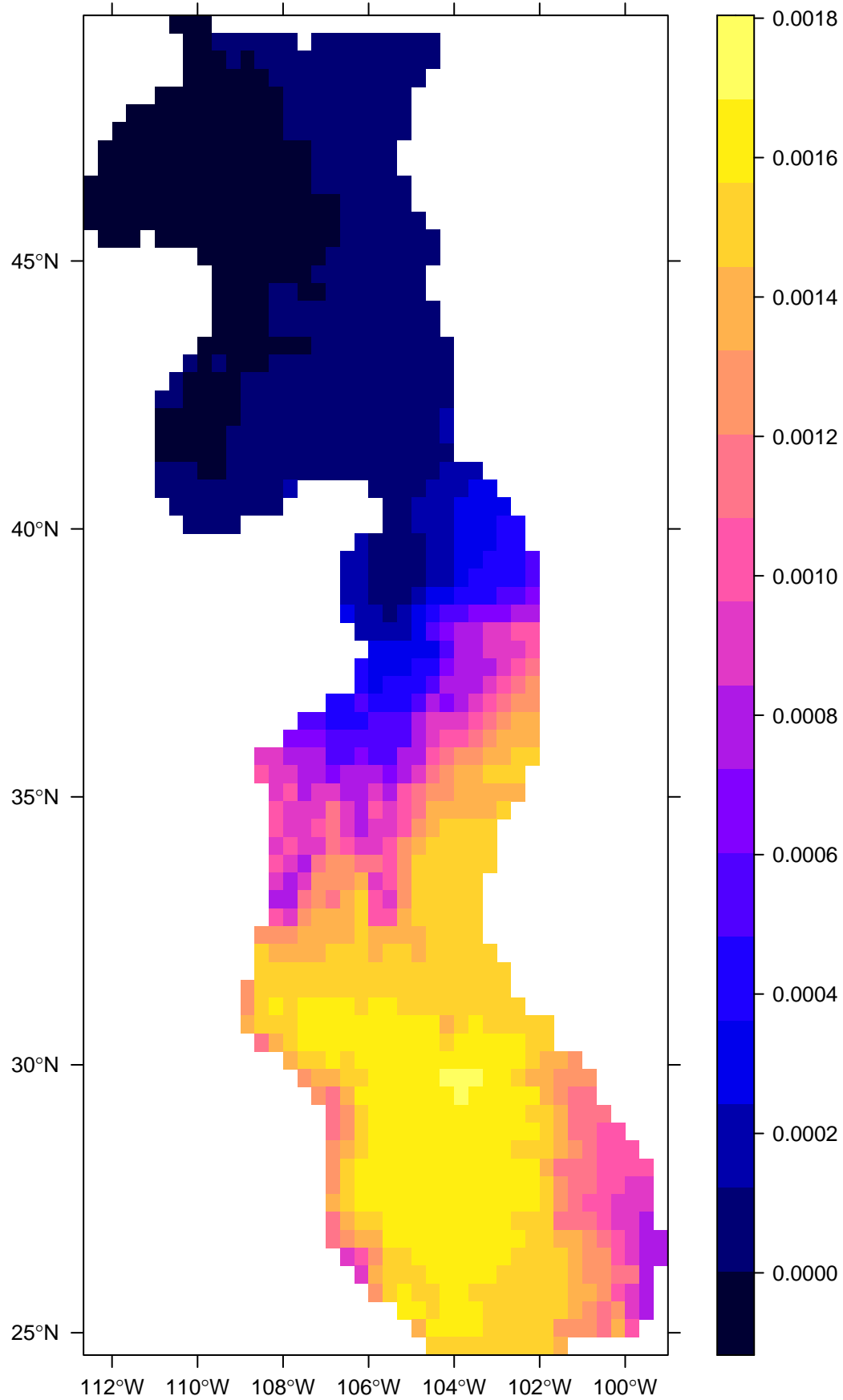
Probability Density Surface for juv_YR04_01



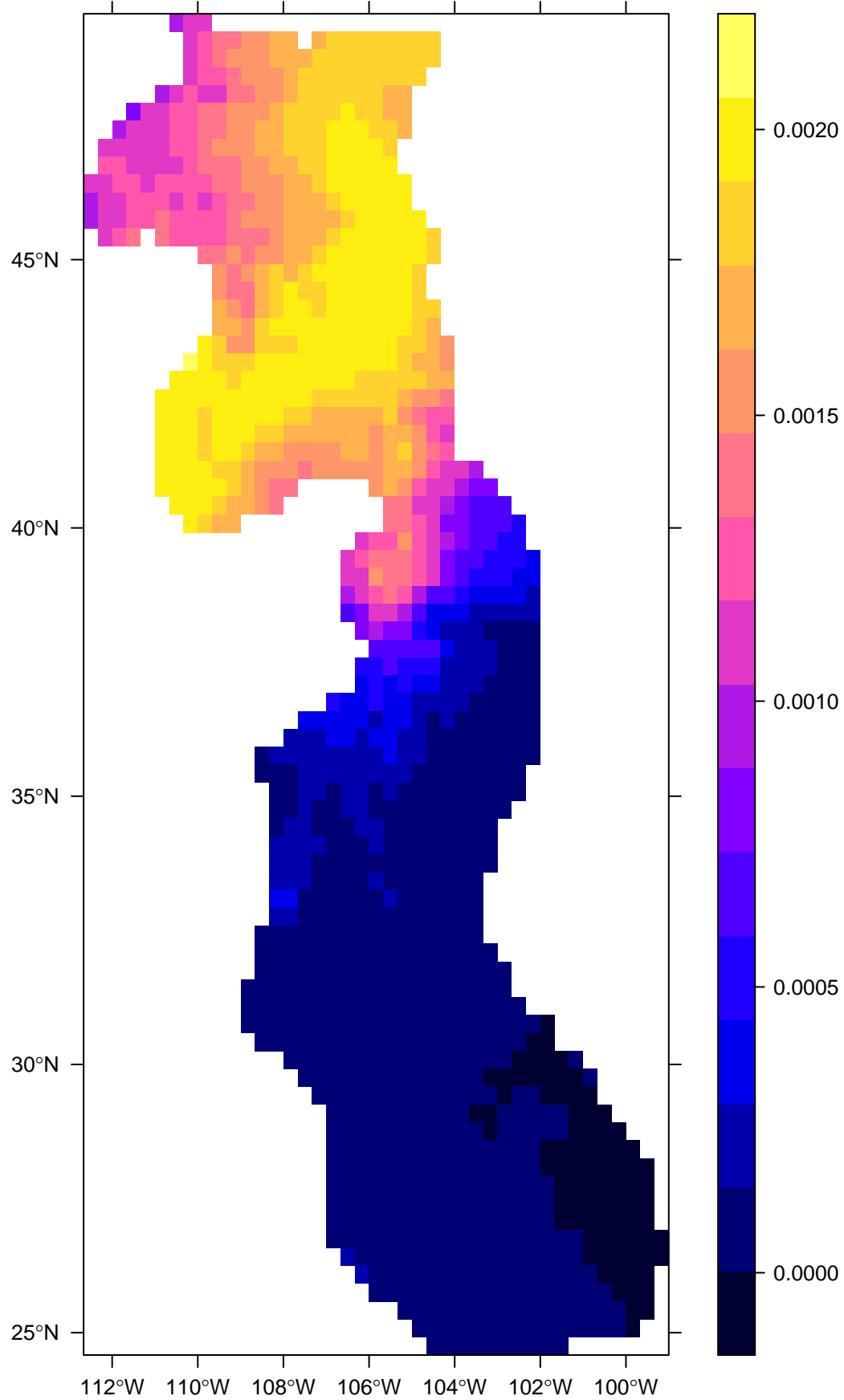
Probability Density Surface for juv_YR04_02



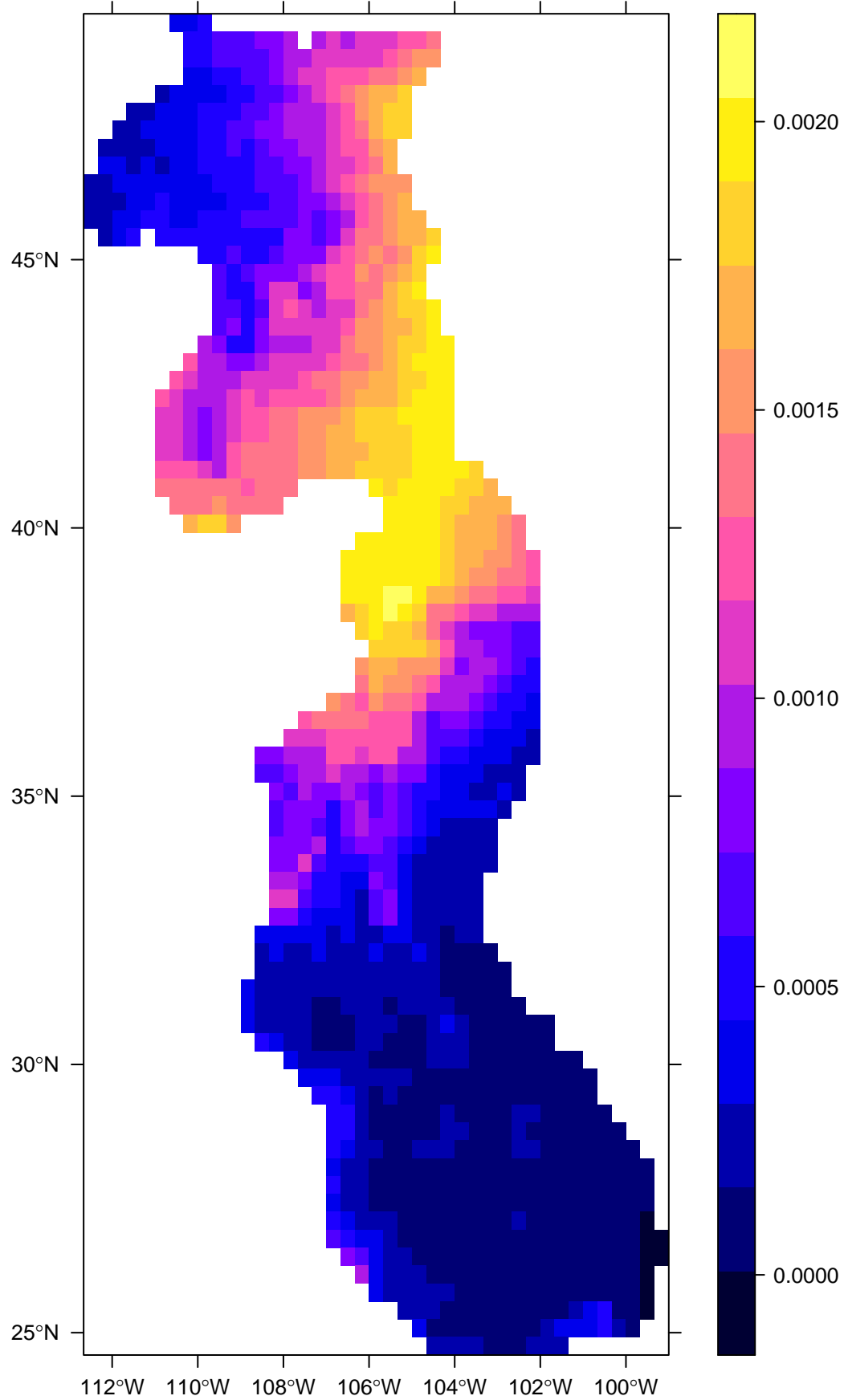
Probability Density Surface for juv_YR04_03



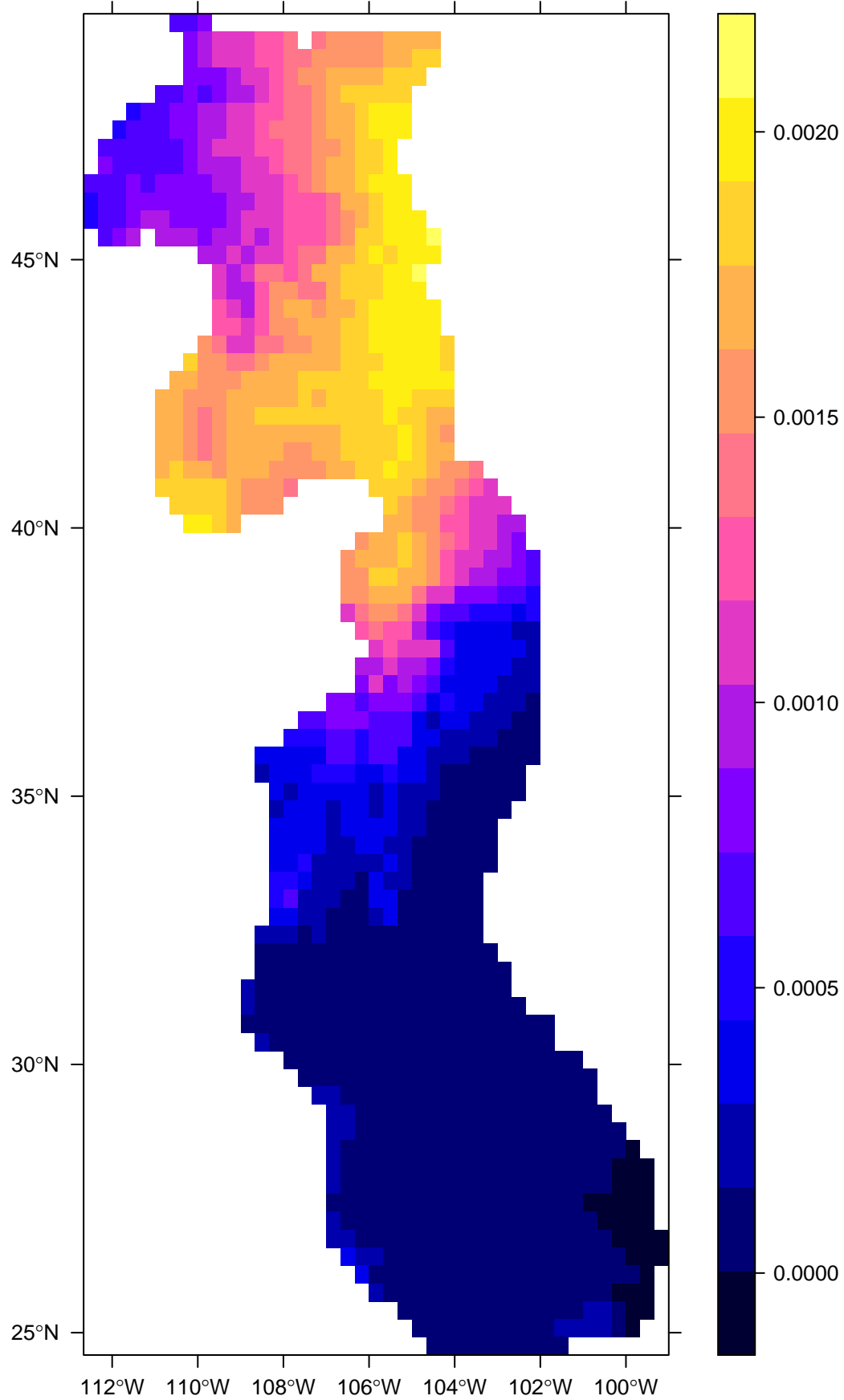
Probability Density Surface for juv_YR04_04



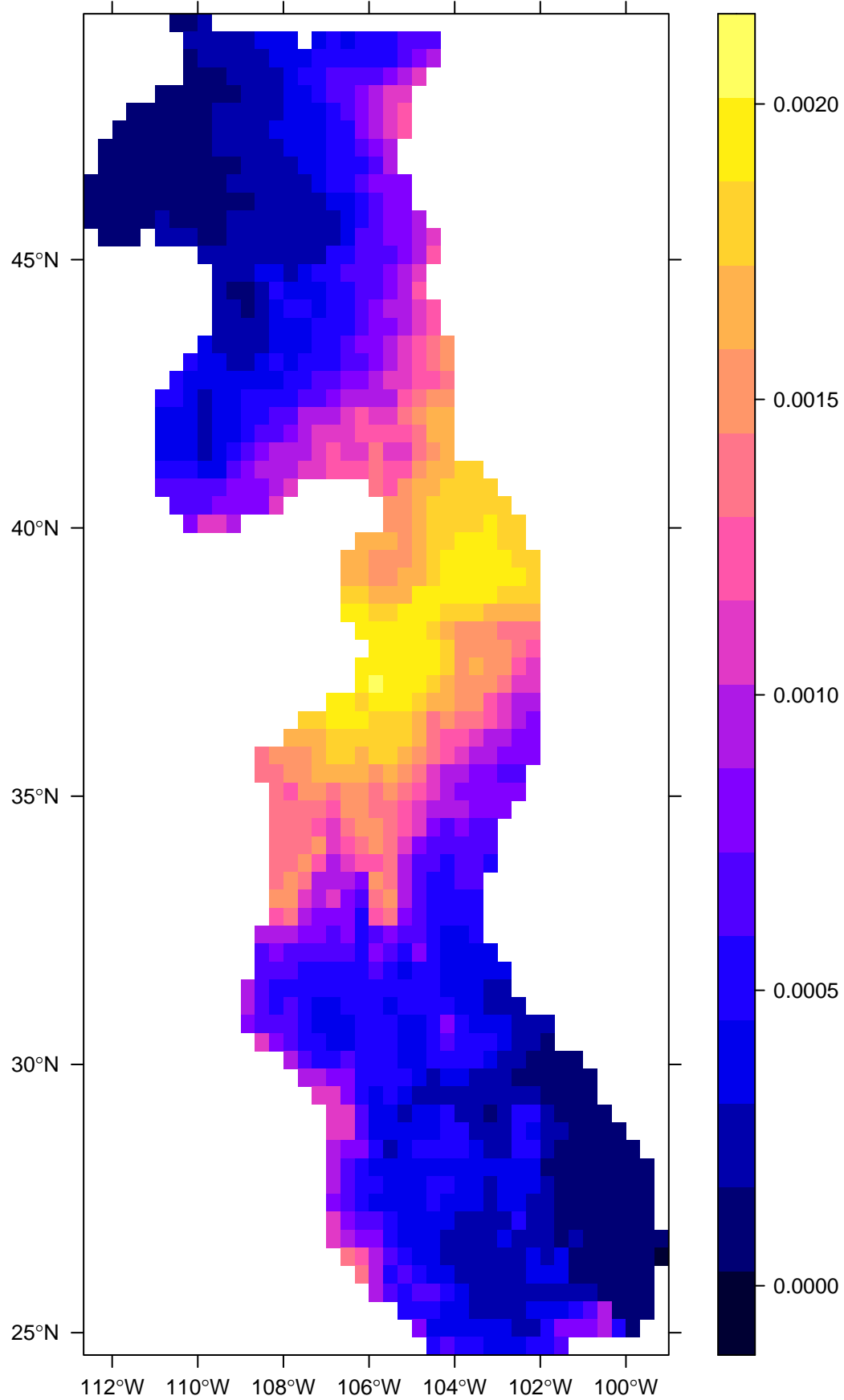
Probability Density Surface for juv_YR04_05



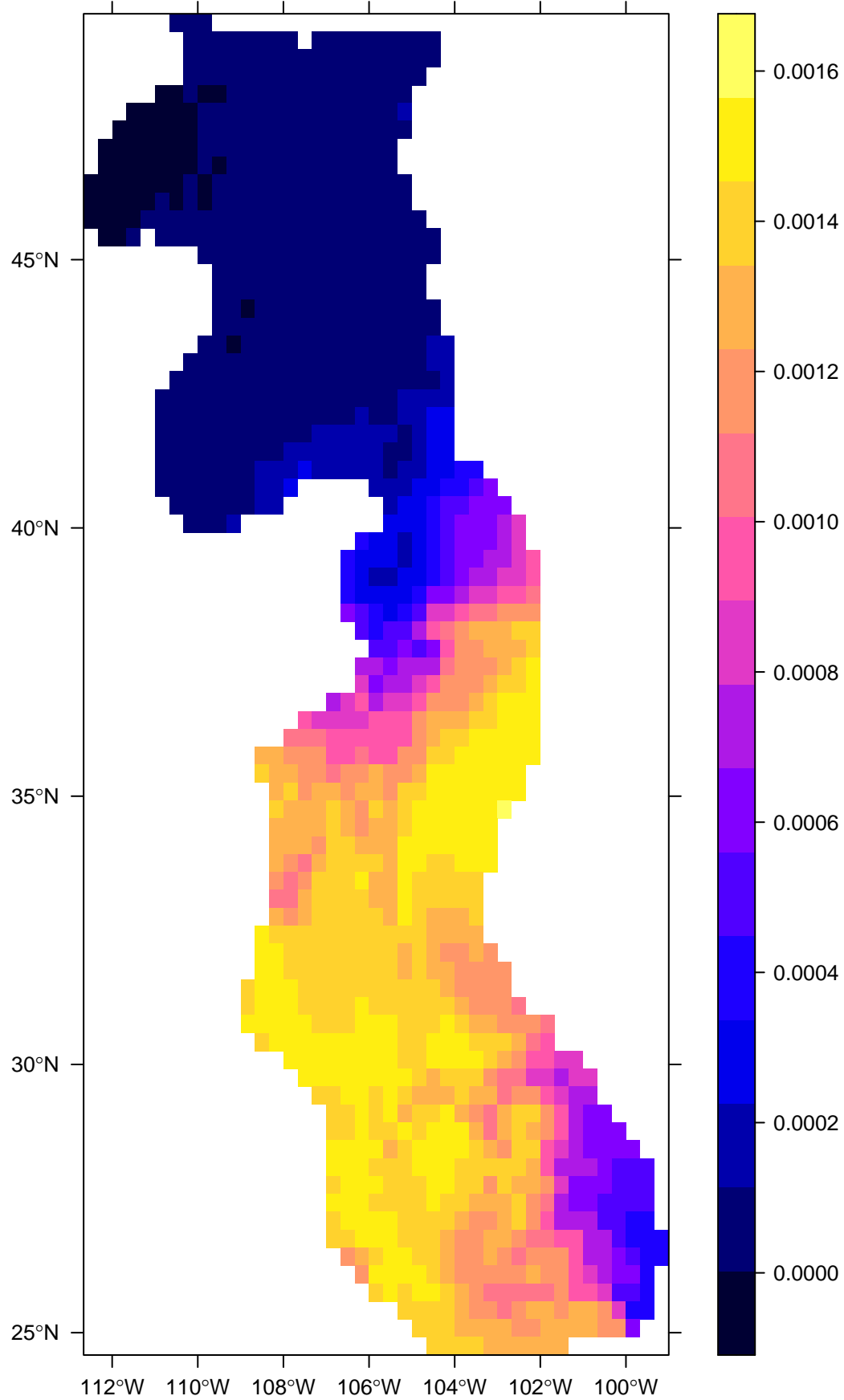
Probability Density Surface for juv_YR04_06



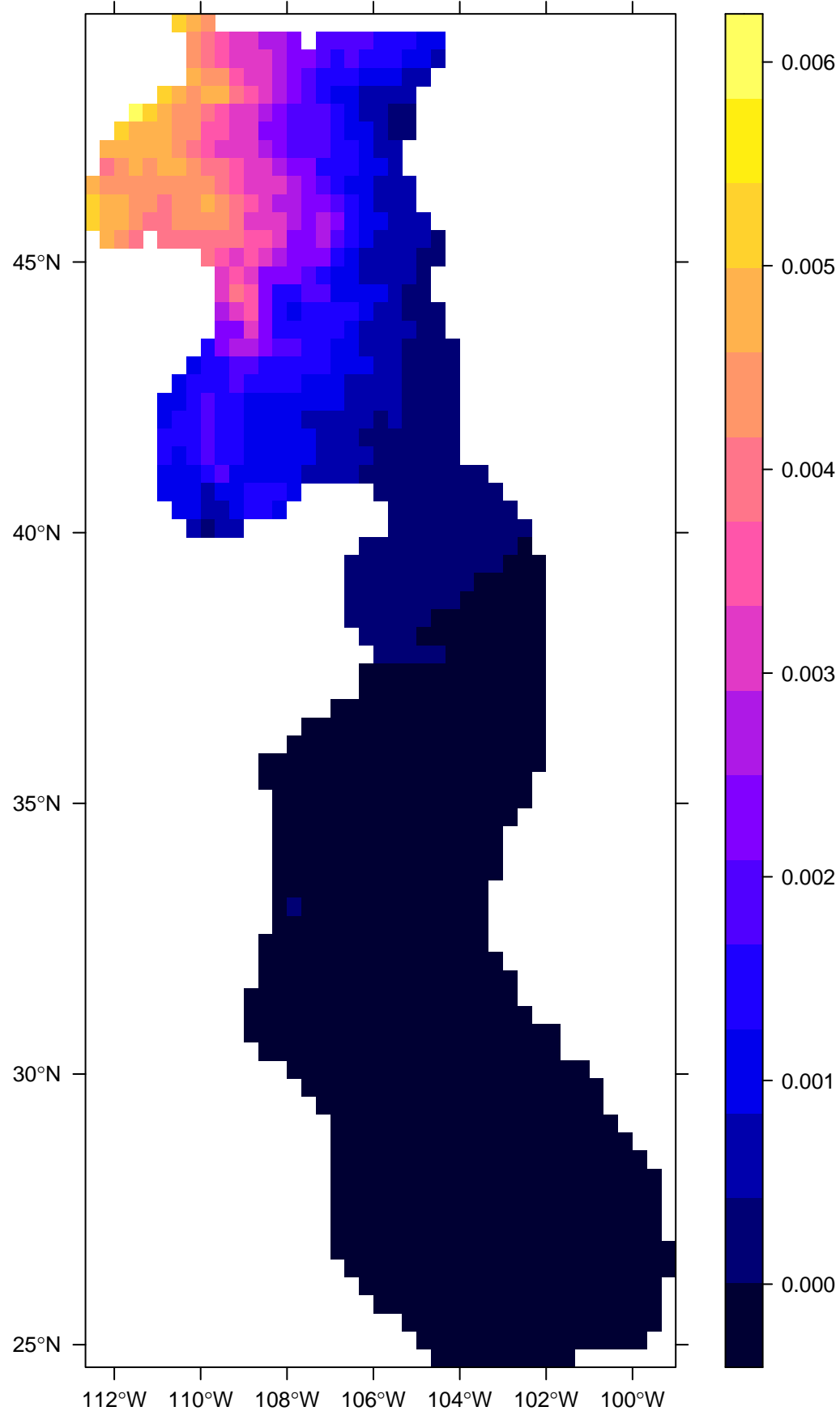
Probability Density Surface for juv_YR04_07



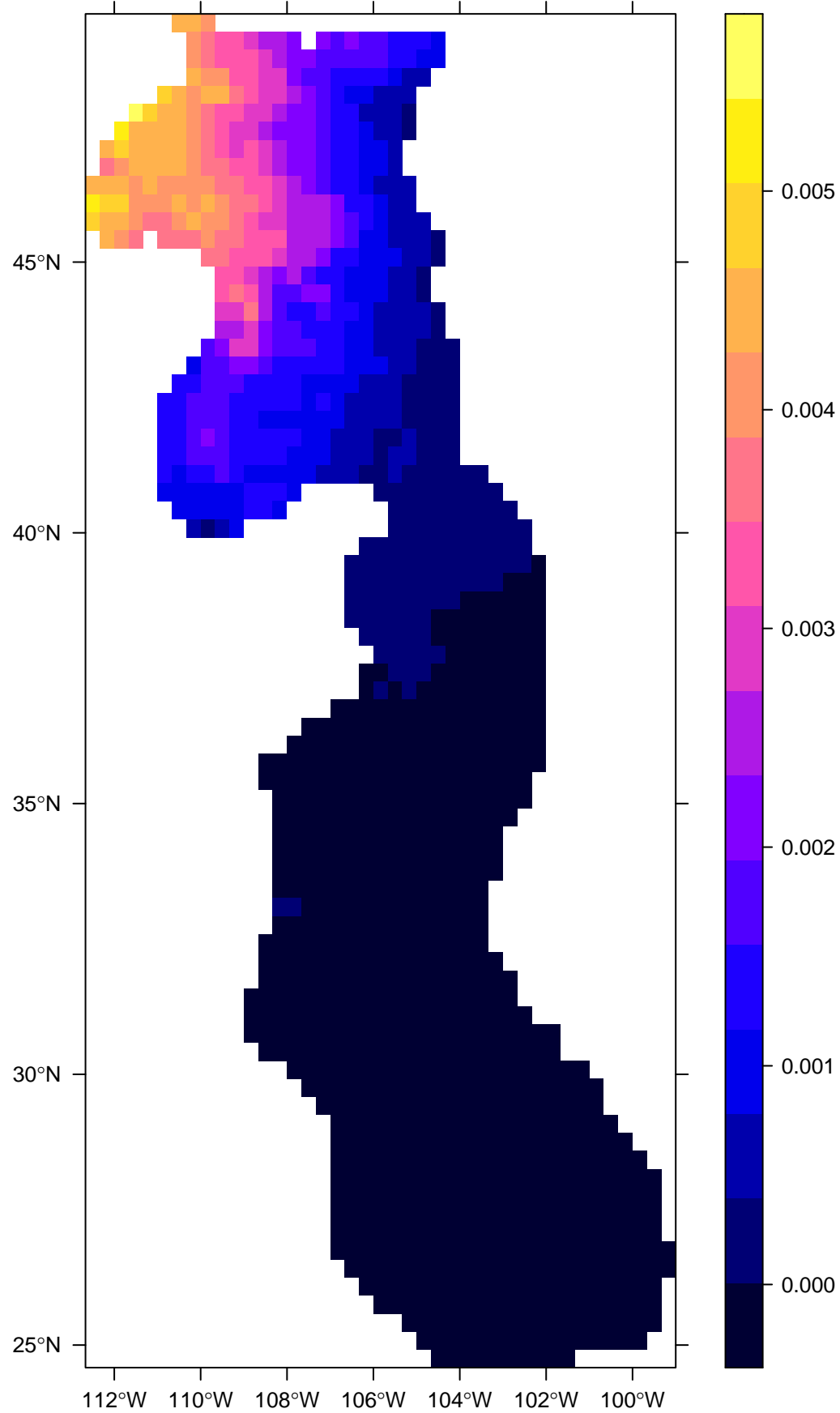
Probability Density Surface for juv_YR04_08



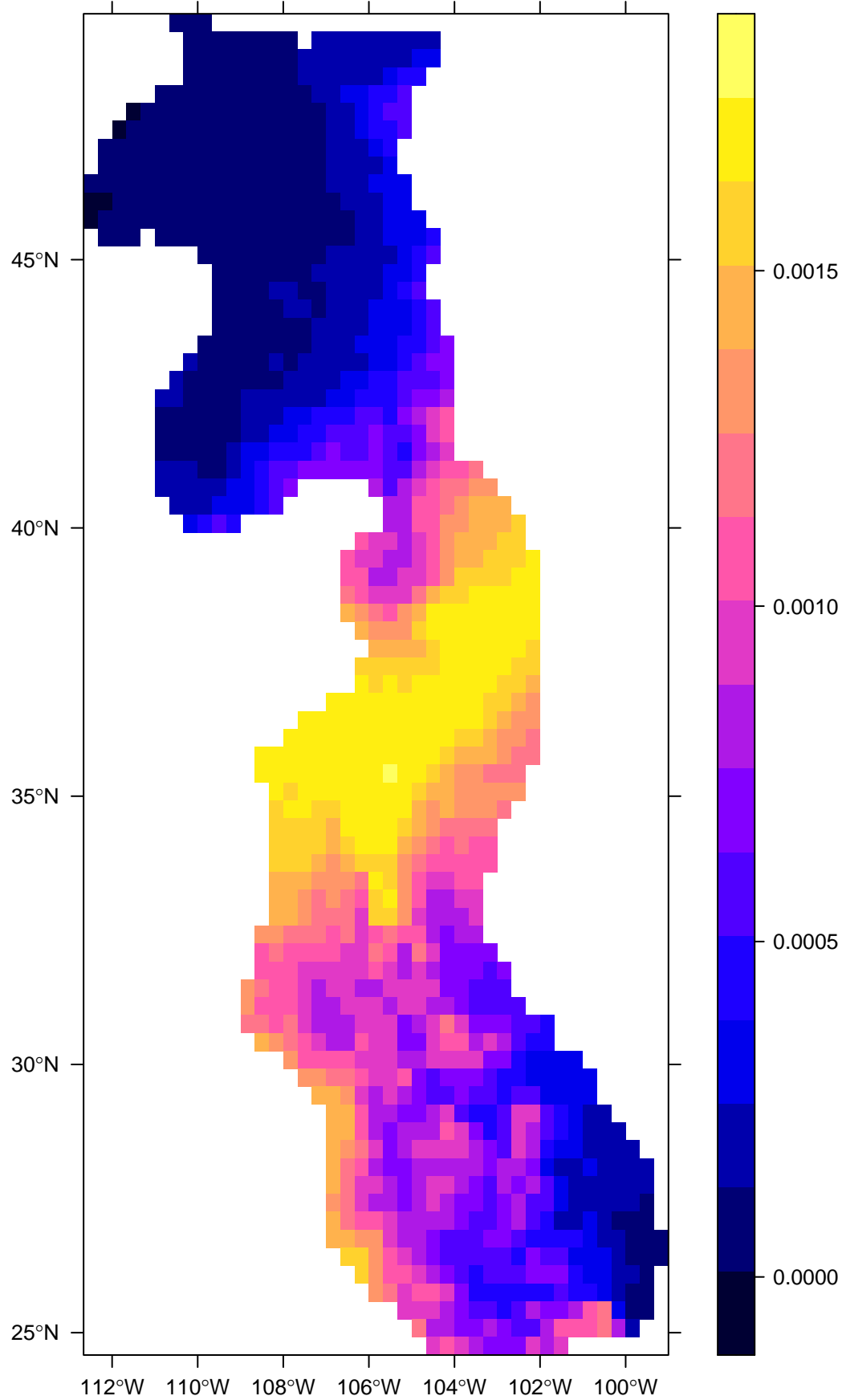
Probability Density Surface for juv_YR04_09



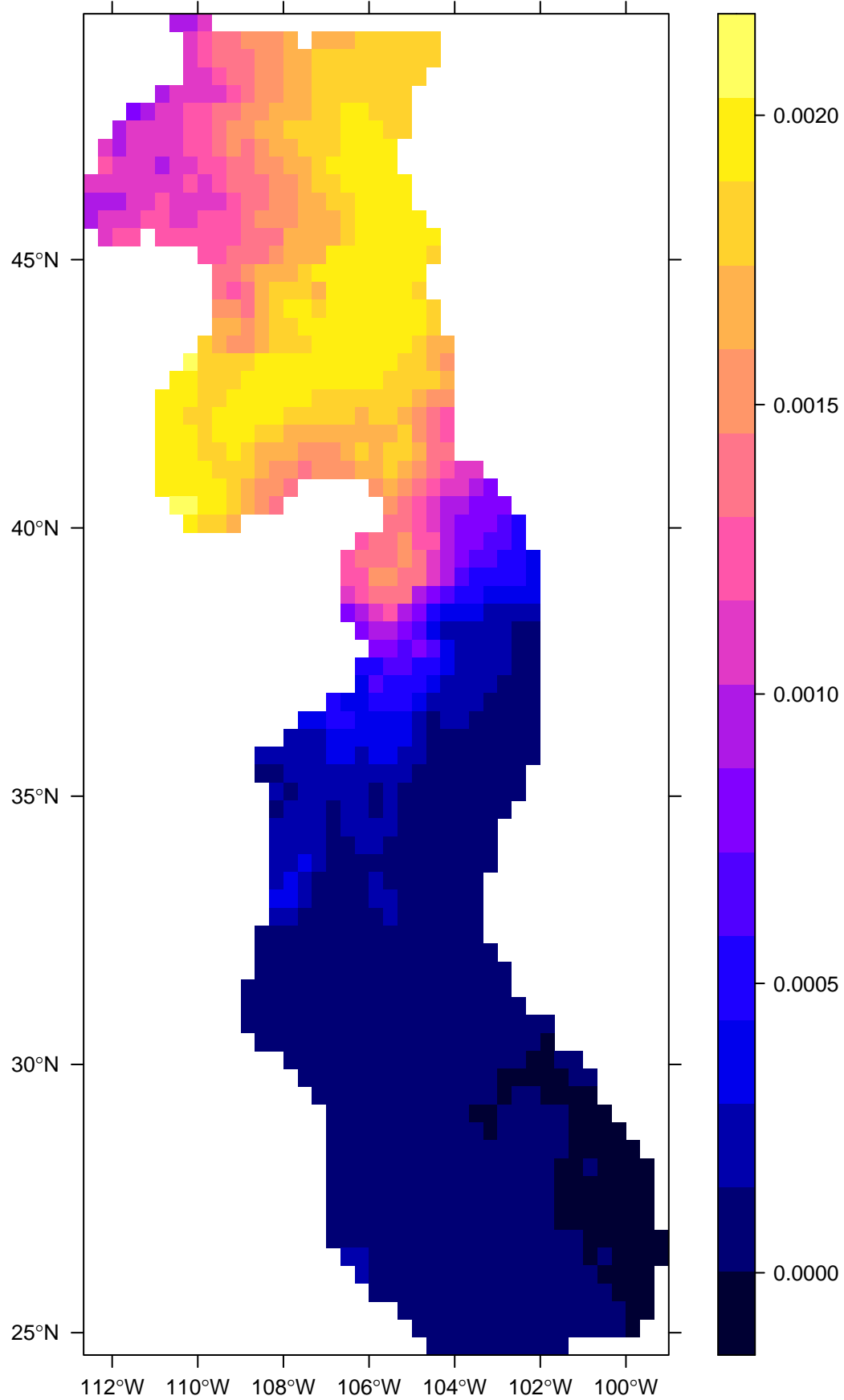
Probability Density Surface for juv_YR04_10



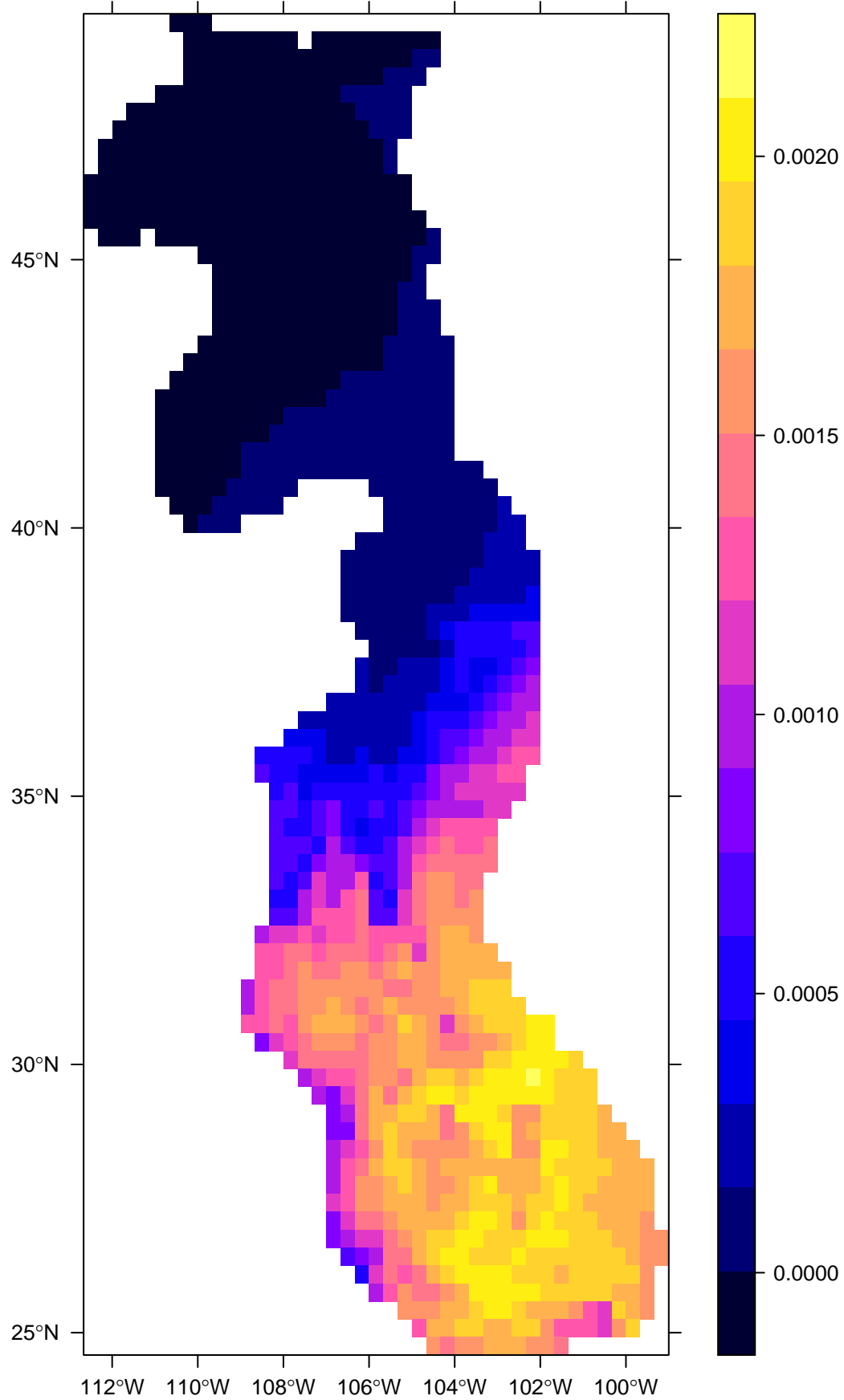
Probability Density Surface for juv_YR04_11



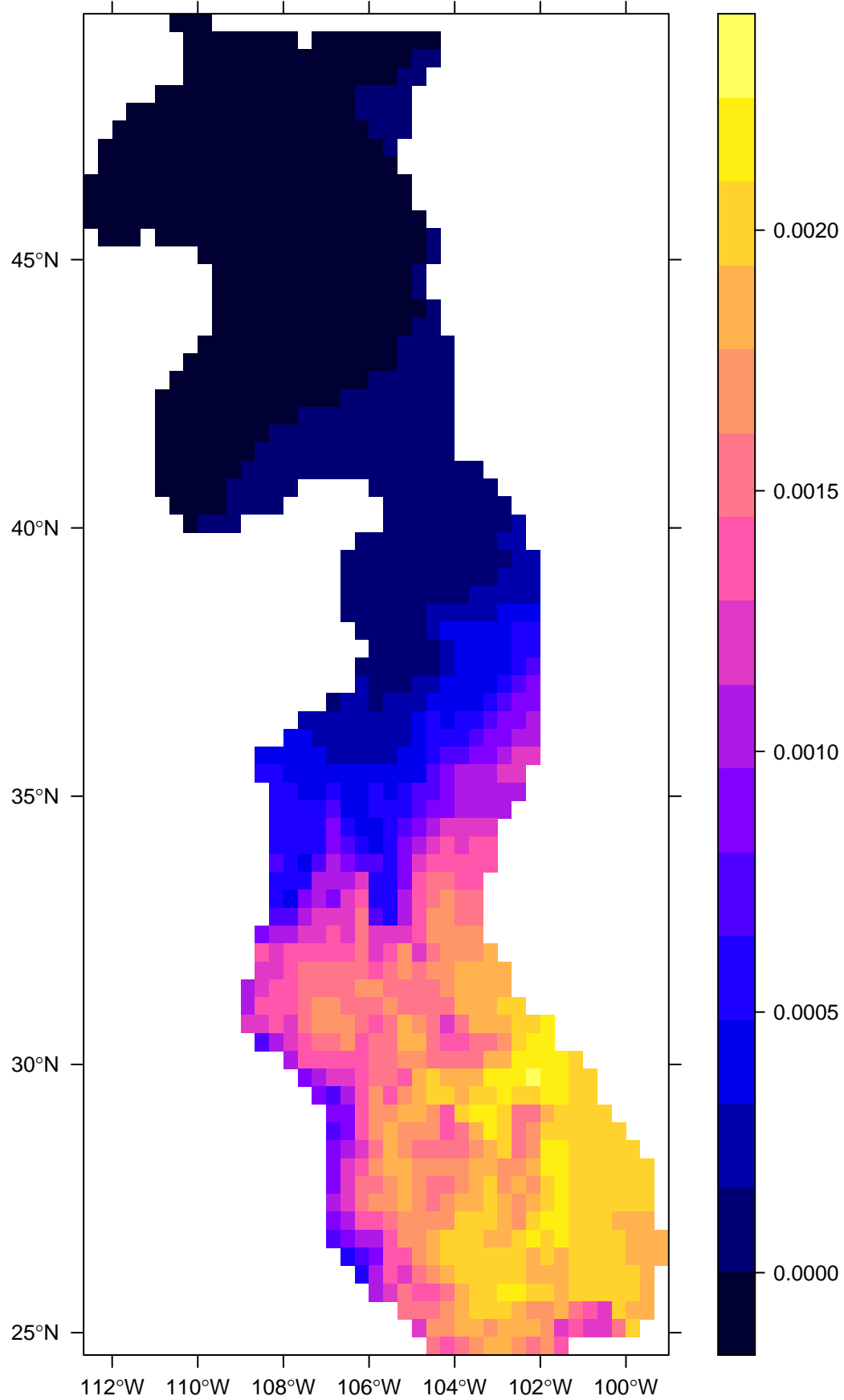
Probability Density Surface for juv_YR04_12



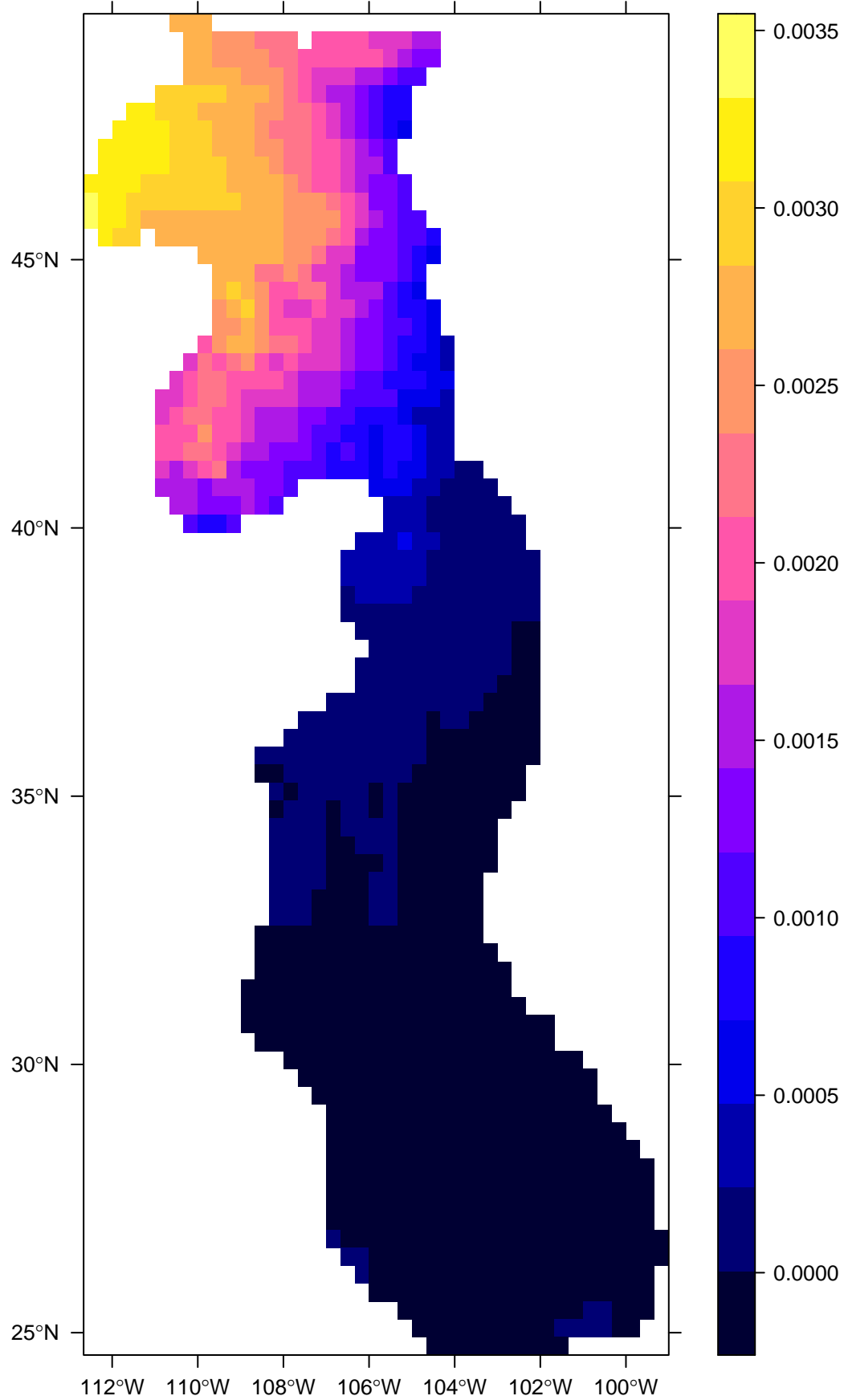
Probability Density Surface for juv_YR04_13



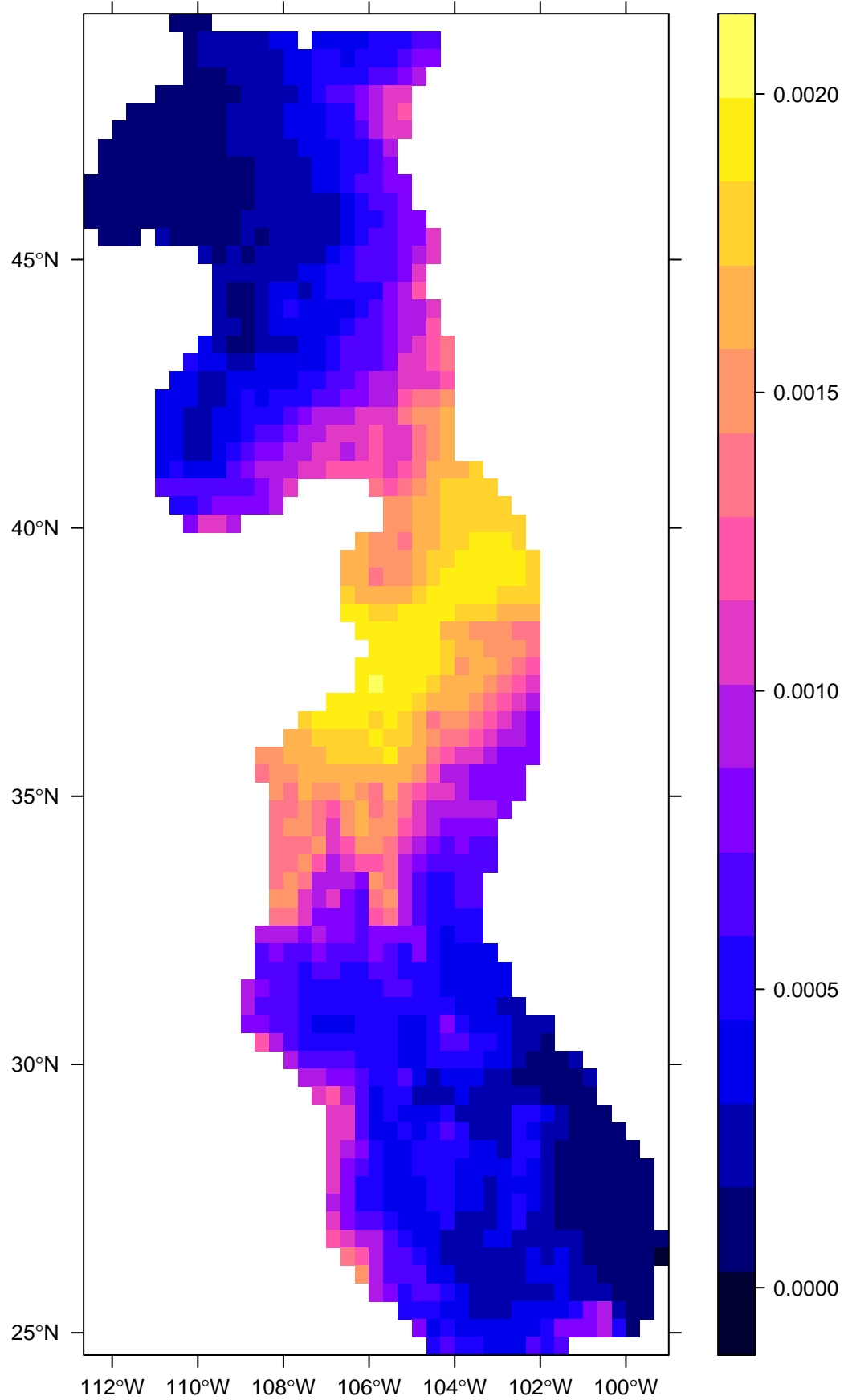
Probability Density Surface for juv_YR04_14



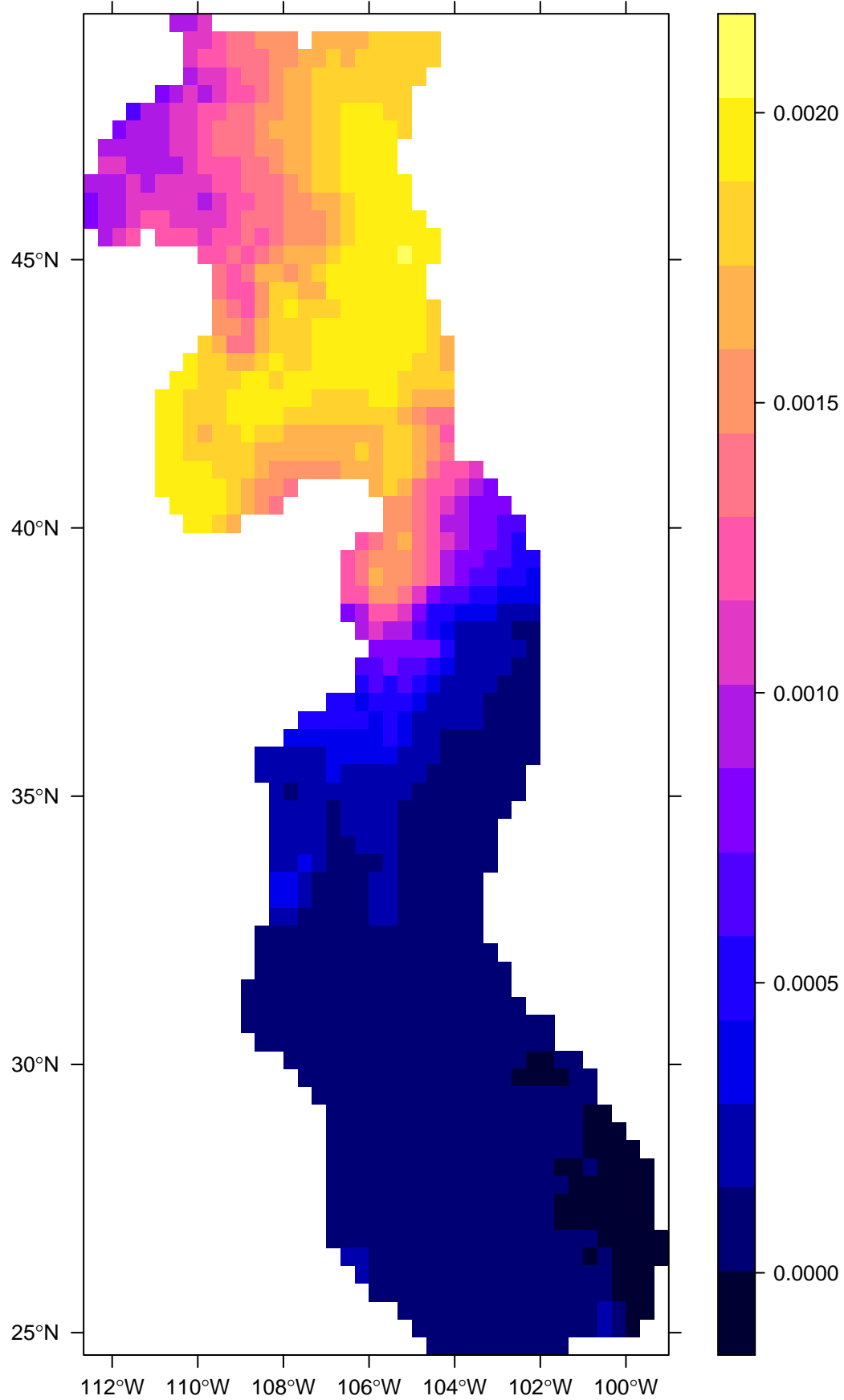
Probability Density Surface for juv_YR04_15



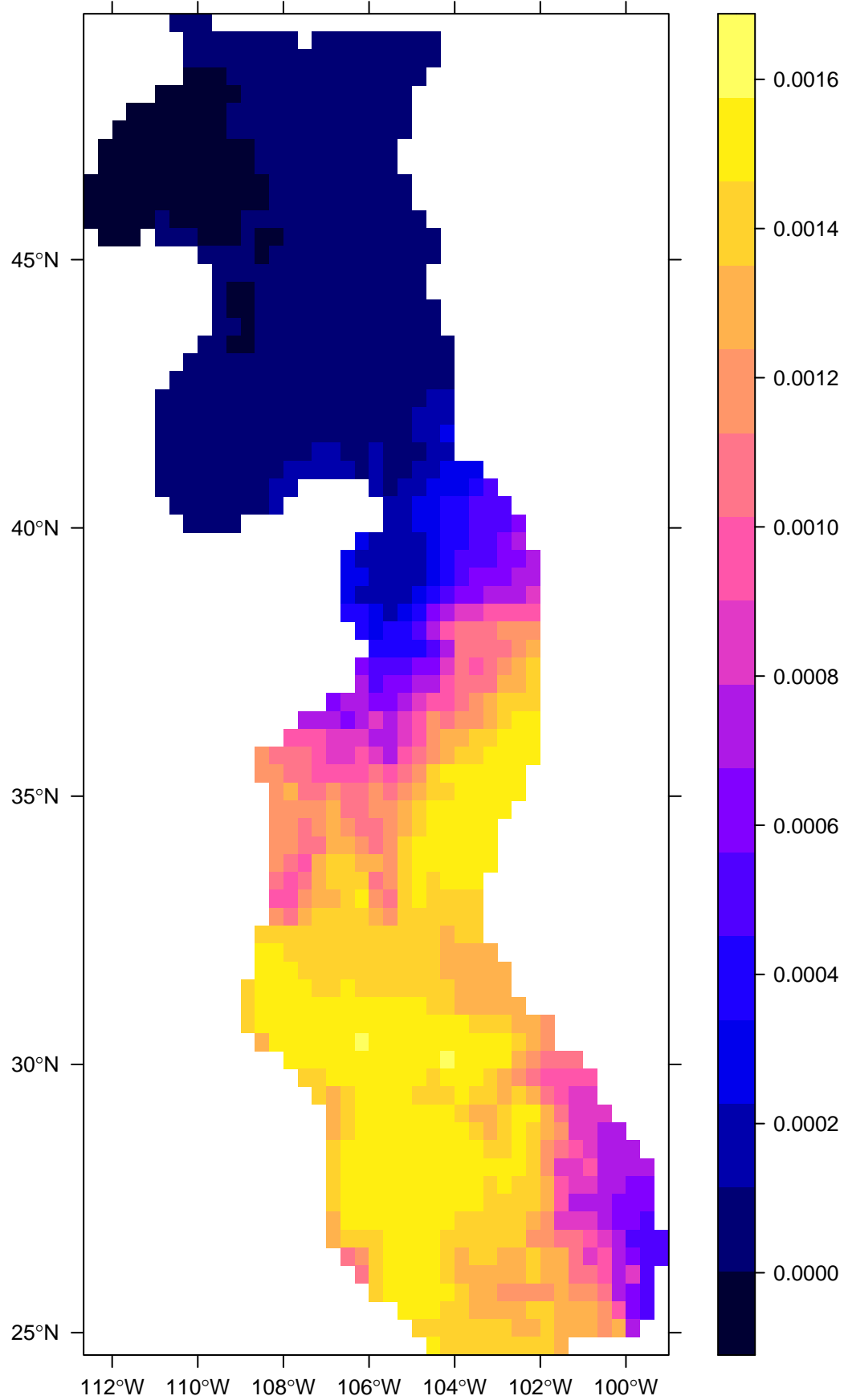
Probability Density Surface for juv_YR04_16



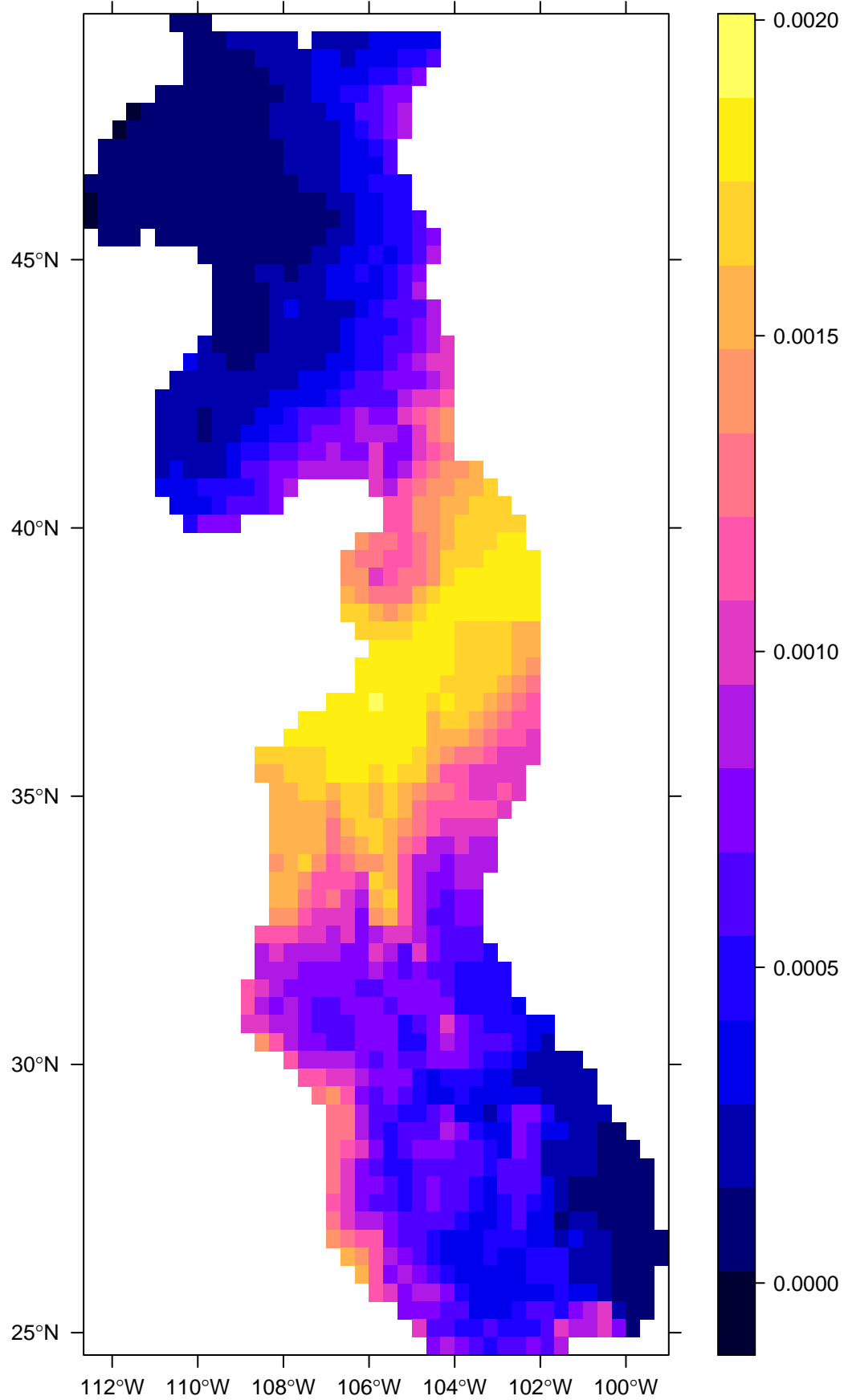
Probability Density Surface for juv_YR04_17



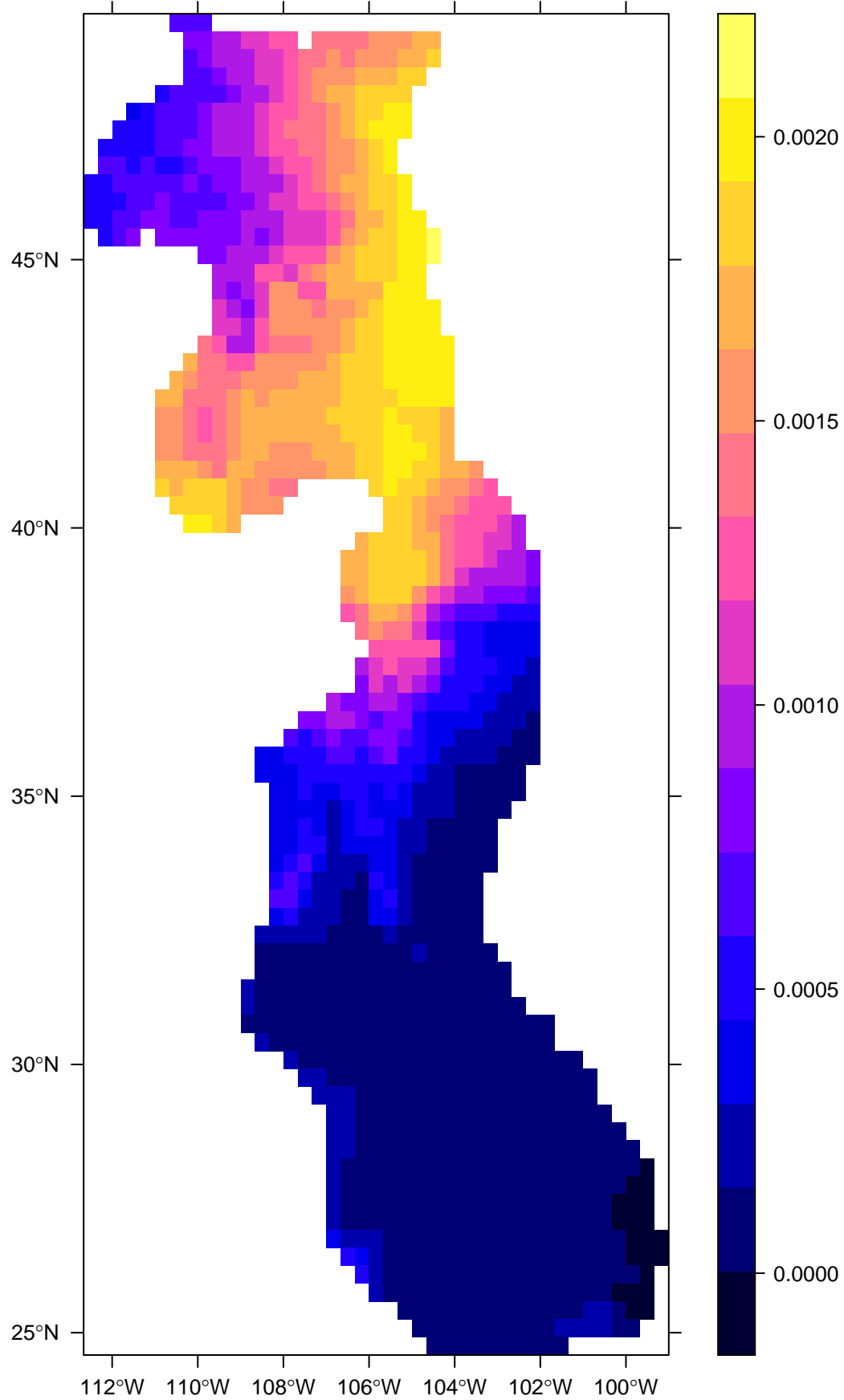
Probability Density Surface for juv_YR04_18



Probability Density Surface for juv_YR04_19



Probability Density Surface for juv_YR04_20



Probability Density Surface for juv_YR04_21

