Adaptation of rice to the Nordic climate yields potential for rice cultivation at most northerly site and organic production of low-arsenic and high-protein rice

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Figure S1 | Protocol illustrating cultivation of ‘Heijing 5’ in Uppsala. (A) Germination of seeds in a plate. (B) Development of early small seedlings in greenhouse. (C) Early seedlings in the field, covered by a simple and easily-openable polytunnel when the temperature was below 10 °C. (D) Late seedlings at tillering stage. (E) Rice plants at flowering stage. (F) Ripening rice plants.
Figure S2 | Map indicating the site in China (Heihe; 50.52°N, 127.53°E) at which ‘Heijing 5’ was developed and the site in Sweden (Uppsala; 59.86°N, 17.64°E) at which ‘Heijing 5’ was adapted to the climate after five years of cultivation.
Figure S3 | Weather conditions in Uppsala, Sweden, and Heihe, China. (A) Rainfall in 2018 and historical average. (B) Average temperature in 2018 and historical average. (C) Day length. Data on rainfall and temperature in Uppsala and Heihe taken from https://www.accuweather.com. Data on Uppsala day length taken from https://www.timeanddate.com/sun/ and data on Heihe day length taken from https://richurimo.51240.com.
| Lab id number | Line/Variety/Cultivar      |
|---------------|---------------------------|
| 1             | Longdao 3                 |
| 2             | Longjing 2                |
| 3             | Songjing 5                |
| 4             | Dongnong 416              |
| 5             | Hejiang 20                |
| 6             | Jiandao 6                 |
| 7             | Kendao 12                 |
| 8             | Mudanjiang 27             |
| 9             | Kendao 13                 |
| 10            | Songjing 1                |
| 11            | Wuyoudao 1                |
| 12            | Kendao 8                  |
| 13            | Shennong 265              |
| 14            | Nipponbare                |
| 15            | Songjing 3                |
| 16            | Longjing 8                |
| 17            | Song02-813                |
| 18            | Heijing 5                 |
| 19            | Liaojing 5                |
| 20            | Liaojing 326              |
| 21            | Liaojing 454              |
| 22            | Jijing 80                 |
| 23            | Changbai 15               |
| 24            | Liaojing 294              |