**Supporting Information**

# Corrosion behavior investigation of 460 low alloy steels exposed in the natural deep-sea environment

Tigang Duan, Likun Xu \*, Kangkang Ding, Wenshan Peng, Jian Hou, Weimin Guo, Wenhua Cheng

*State Key Laboratory for Marine Corrosion and Protection, Luoyang Ship Material Research Institute(LSMRI), Qingdao 266237, China*

\*Corresponding author.

Likun Xu: Tel.: +86-13583228231; E-mail address: [xulk@sunrui.net](mailto:xulk@sunrui.net)

**(b)**

**(a)**

**(c)**

|  |  |  |
| --- | --- | --- |
| 3D-460-05-1200460-  **(d)** | 3D-05A-2000-1460-  **(e)** | 3D-460-1AXIUDI-1200-2460-  **(f)** |
| 3D-460-1A-1200-1460-1a-1200-002  **(g)** | 3D-460-1A-2000-2460-1a-2000-002  **(h)** | 3D-460-1A-3000-1460-1a-3000-003  **(i)** |
| 3D-460-2A-1200-2460-2a-1200-002 | 3D-460-2A-2000-3460-2a-2000-004 | 3D-460-2A-3000-5460-2a-3000-002  **500 μm** |

Figure S1 Corrosion micro-morphologies of 460 steel after rust removal: (a-c) 0.5a period, (d-f) 1a period, (g-i) 2a period; (a, d, g) 1200 m, (b, e, h) 2000 m, (c, f, i) 3000 m. Insets are the corresponding 3D structure images.