P(vector): nr * (ns+4)+1.

for Reation #1:

rate =
$$[S_1]^{V_1}[S_2]^{V_2}\cdots[S_{n_s}^{V_{n_s}}]\cdot AT^be^{-\frac{E_a}{RT}}$$

= $exp\{v_1|nS_1+\cdots+v_{n_s}|nS_{n_s}+lnA+6|nT-\frac{E_a}{RT}\}$
 S_1-V_2 rate

Input:
$$\begin{bmatrix} S_{1} \\ S_{2} \\ \vdots \\ S_{n_{s}} \\ InT \\ -\frac{1}{RT} \end{bmatrix}$$

$$\begin{bmatrix} E_{\alpha_{1}}, \cdot - - - E_{\alpha_{n_{r}}} \\ \vdots \\ D_{n_{r}} \end{bmatrix}$$

$$\left[b_{1} - b_{n_{r}} \right]$$

$$\left[\text{Ocean} \right]$$

CRNN:
$$\log X = \log \mathbb{E} \operatorname{species}^{2} (ns * 1)$$
.

$$T = (ns * 1).$$

$$W_{in-x} = W_{in} (nr * (ns + 4c3)) * {log X \choose R/7 \choose log T} (ns + 3)$$

$$(nr).$$

$$du = w_{out} * \exp(w_{in,x} + w_{-b})$$

$$(ns * nr) (nr * 1)$$

$$(nr, ns+3) \xrightarrow{\text{Venction # I}} V_{\text{In}}^{\text{S}_{\text{I}}} V_{\text{In}}^{\text{S}_{\text{I}}} V_{\text{In}}^{\text{S}_{\text{I}}} V_{\text{In}}^{\text{S}_{\text{I}}} V_{\text{In}}^{\text{S}_{\text{I}}} V_{\text{In}}^{\text{S}_{\text{I}}} V_{\text{In}}^{\text{S}_{\text{In}}} V_{\text{In}}^{\text{In}} V_{\text{In}}^{\text{In}} V_{\text{In}}^{\text{In}} V_{\text{In}}^{\text{In}} V_{\text{In}}^{\text{In}} V_{\text{In}}^{\text{In}} V_{\text{In}}^{\text$$

(51,5,1-1,5ns) = CRNN (51, "5ns; p)