

VALUES? (Yes=1 No=0). The values in columns 3 and 4 are the lower and upper limit of a linear individual 95-percent confidence interval. For log-transformed parameters, item 9 is calculated as  $s_b^2 = \exp[2.3(s_{\log b})^2 + 2.0 \times \log b][\exp(2.3(s_{\log b})^2) - 1.0]$  where  $b$  is item 2 and  $s_{\log b}$  is item 7.

Table 20. Contents of prediction analysis files produced by UCODE\_2005. [PSD, Parameter standard deviation; RefValue, Reference value; PredValue, Predicted value; Param, Parameter Value. Numbers are added to the end of ParamName and ObsName to emphasize when they are listed in order.]

File Extension	Contents					
UCODE_2005 main output files for prediction runs						
#upred	Summary of UCODE_2005 run with Prediction=yes in the UCODE_Control_Data input block.					
<b>Description</b>		<b>Column Tags Surrounded by double quotes in header. Capitalized COLUMN TAGS are used literally. ParamName and Obsname are replaced by user defined names.</b>				
Prediction data-exchange files produced by UCODE_2005. Can be used in many ways, including as input files for LINEAR UNCERTAINTY						
_gmp	Prediction groups	GROUP NAME	MEMBER NAME	PLOT SYMBOL		
_p	Predictions	PREDICTED VALUE	PLOT SYMBOL	PREDIC- TION NAME		
_pv	Prediction variances	PREDIC- TION VARIANCE	PREDIC- TION NAME	PREDIC- TION GROUP		
_spu <sup>1,2</sup>	Scaling: [unscaled]	PREDIC- TION NAME	PLOT SYMBOL	Param- Name1	Param- Name2	Number of columns is number of parame- ters +2
_spsr <sup>1,2,3</sup>	[×PSD/RefValue]					
_spsp <sup>1,2,3</sup>	[×PSD/PredValue]					
_sppr <sup>1,2,3</sup>	[×Param/RefValue]					
_sppp <sup>1,2,3</sup>	[×Param/PredValue]					

<sup>1</sup> These data-exchange files contain prediction scaled sensitivities and differ only in how the sensitivities are scaled. The first two letters of the file extensions are an s for sensitivity and a p for prediction. The third letter is a u for unscaled, an s if the parameter standard deviation is used in the scaling, and a p if the parameter value is used in the scaling. When present, the fourth letter is r if the reference value is used in the scaling and p if the predicted value is used in the scaling. The scaling is described in the brackets of the second column of the table.

<sup>2</sup> Values for up to 500 parameters are printed as a set using long lines in the output file. Additional parameters are printed in subsequent additional sets in the same file. Each set has the headers shown and the observation name and plot symbol in the first two columns.

<sup>3</sup> If the scaling in the denominator equals 0.0, the scaled sensitivities are set to zero.