Proposed Augmentation for SOLVE

SAGE III Ozone Loss and Validation Experiment (SOLVE)

Overall Objective: To examine the processes that control polar-to-mid latitude stratospheric ozone amounts.

AESA Objective	Mission Activity	Approx. Cost	Expected Result
high-latitude transport	additional balloon launches, ER-2 tracer instruments	$1M	vortex descent and mixing rates
NOx induced O3 loss	ER-2 and DC-8 reactive nitrogen measurements	$750k	reactive nitrogen partitioning
PSC model parameterization	added flight opportunities in cold regions	$700k	PSC composition and microphysics
exhaust particle production	DC-8 corridor flights and particle instruments	$550k	aircraft particle abundances
Assessment Confidence	Full Partnership with Office of Earth Science	$3M	Significant Model Improvements