Moab/Torque to SLURM Translations

User Commands	PBS/Torque	Slurm
Job submission	qsub [script_file]	sbatch [script_file]
Job deletion	qdel [job_id]	scancel [job_id]
Job status (by job)	qstat [job_id]	squeue [job_id]
Job status (by user)	qstat -u [user_name]	squeue -u [user_name]
Job hold	qhold [job_id]	scontrol hold [job_id]
Job release	qrls [job_id]	scontrol release [job_id]
Queue list	qstat -Q	squeue
Node list	pbsnodes -l	sinfo -N OR scontrol show nodes
Cluster status	qstat -a	sinfo
GUI	xpbsmon	sview

Environment	PBS/Torque	Slurm
Job ID	$PBS_JOBID	$SLURM_JOBID
Submit Directory	$PBS_O_WORKDIR	$SLURM_SUBMIT_DIR
Submit Host	$PBS_O_HOST	$SLURM_SUBMIT_HOST
Node List	$PBS_NODEFILE	$SLURM_JOB_NODELIST
Job Array Index	$PBS_ARRAYID	$SLURM_ARRAY_TASK_ID

Required | Not recommended

Job Specification	PBS/Torque	Slurm
Script directive	#PBS	#SBATCH
Queue/Partition	-q [name]	-p [name] ***Best to let Slurm pick the optimal partition***
Node Count	-l nodes=[count]	-N [min[-max]]. ***Autocalculates this if just task # is given***
Total Task Count	-l ppn=[count] OR -l mppwidth=[PE_count]	-n OR --ntasks=ntasks
Wall Clock Limit	-l walltime=[hh:mm:ss]	-t [min] OR -t [days-hh:mm:ss]
Standard Output FIle	-o [file_name]	-o [file_name]
Standard Error File	-e [file_name]	-e [file_name]
Combine stdout/err	-j oe (both to stdout) OR -j eo (both to stderr)	(use -o without -e)
Copy Environment	-V	--export=[ALL | NONE | variables]
Event Notification	-m abe	--mail-type=[events]
Email Address	-M [address]	--mail-user=[address]
Job Name	-N [name]	--job-name=[name]
Job Restart	-r [y|n]	--requeue OR --no-requeue
Working Directory	*Always starts in /home*	--workdir=[dir_name]. ***Probably /scratch or /projects***
Resource Sharing	-l naccesspolicy=singlejob	--exclusive OR --shared
Memory Size	-l mem=[MB]	--mem=[mem][M|G|T] OR --mem-per-cpu=[mem][M|G|T]
Account to charge	-A OR -W group_list=[account]	--account=[account] OR -A
Tasks Per Node	-l mppnppn [PEs_per_node]	--tasks-per-node=[count]
CPUs Per Task		--cpus-per-task=[count]
Job Dependency	-d [job_id]	--depend=[state:job_id]
Job host preference		--nodelist=[nodes] AND/OR --exclude=[nodes]
Quality Of Service	-l qos=[name]	--qos=[normal|high|]
Job Arrays	-t [array_spec]	--array=[array_spec]
Generic Resources	-l other=[resource_spec]	--gres=[resource_spec]
Licenses		--licenses=[license_spec]
Job Enqueue Time	-a "YYYY-MM-DD HH:MM:SS"	--begin=YYYY-MM-DD[THH:MM[:SS]]