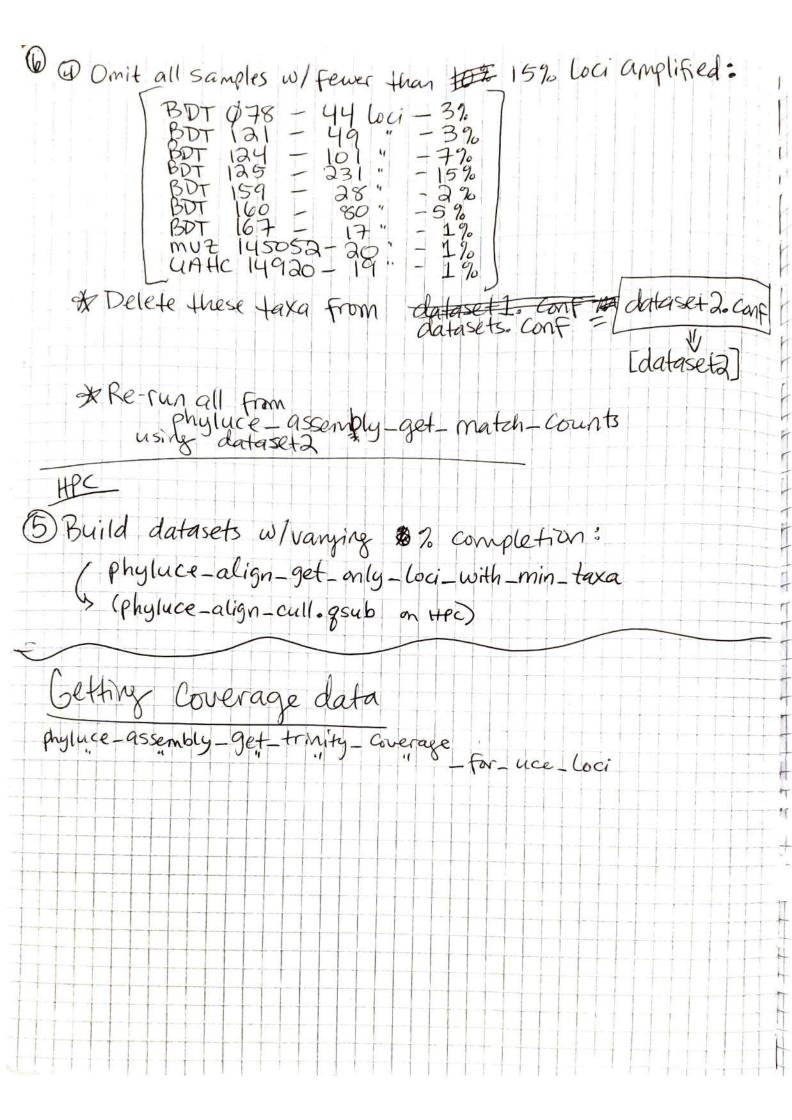


Failed, but all completed success fully after 2 or 3 all created files & restarted run, failed, I deleted all All assemblies completed. /work/patt ceneuman rawdata/assemblies_trinity UCE Processing (post-assembly)
NHp://github.com/faircloth-lab/phyluce/blob/master/docs/
uce-processing.rst *UCE probe set fasta: LSU_466401_probes.fasta [Important] > Solite does not work on HPC server! Githese steps must be done on computer (dll contigs from the) O phyluce _ assembly _ match _ contigs _ to_probes (make sure to rename probes : uce-NNNN_pN D Creating data matrix configuration file

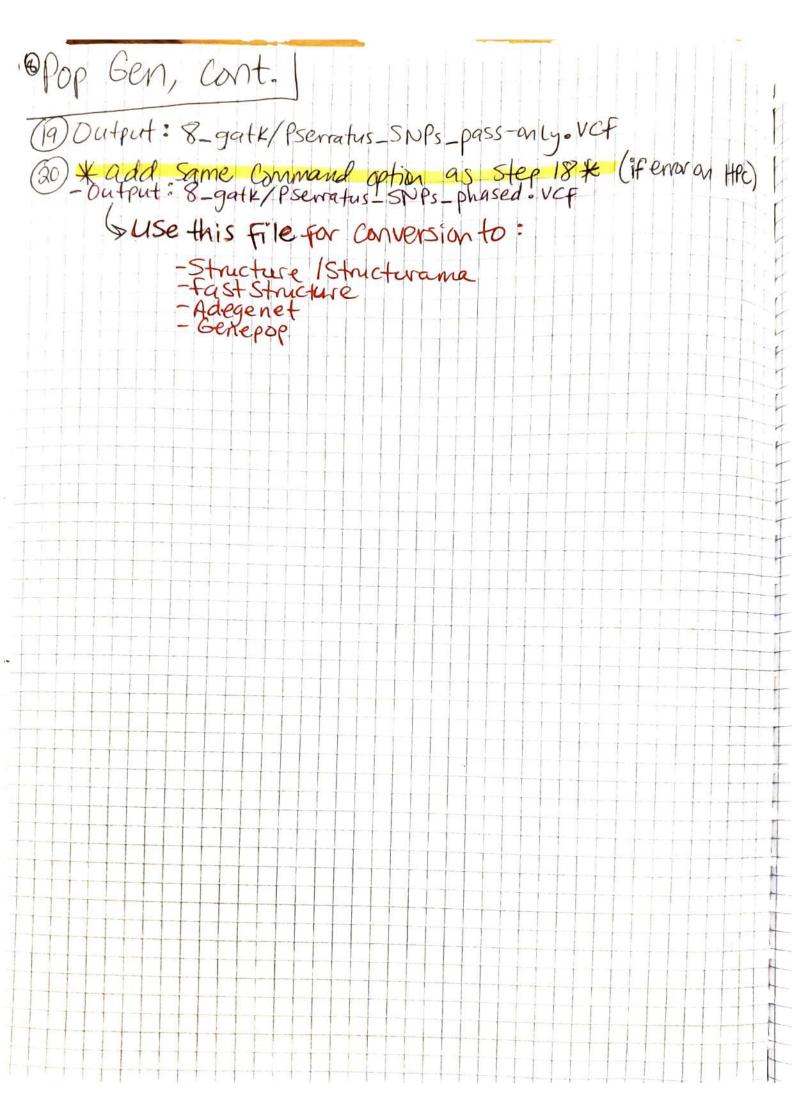
- no complete matrix (all loci missing at locat 1 taxon)

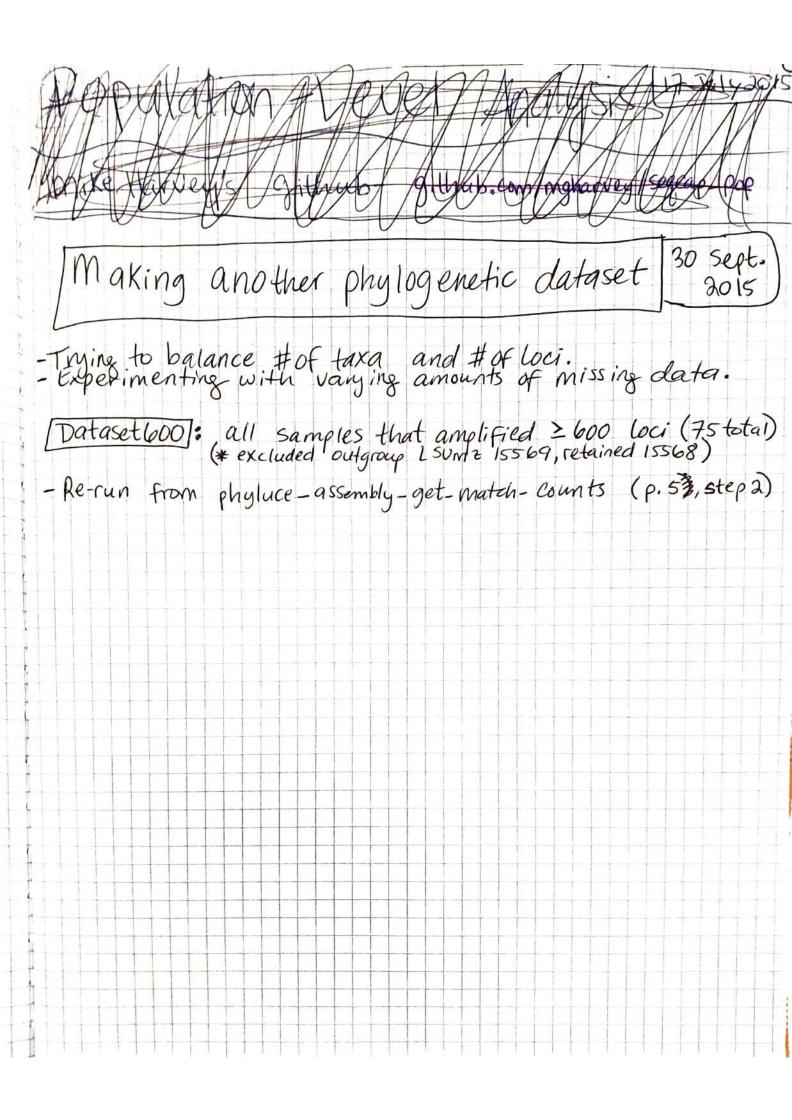
- incomplete: phyluce - assembly - get - match - counts

Ly [dataset 1] = all 96 samples (datasets - conf) 3 Extracting FASTA data using data matrix Confix file - phyluce - assembly get - fastas-from-match-counts LEND OF SALITE PROCESSES - CAN DO REMAINDER ON HPC1 @ALIGNMENT & TRIM! - phylice - align - segrap - align (output = /mafft - nexus/)
- phylice - align - get - align - summary - data
- phylice - align - get - align - summary - completeness" based on total taxa in Taxa Max
- phylice - align - remove - locus - name - from - nexus - lines
(output = /mafft - nexus - clean/) on my comp Pdownloaded cleaned alignments. @ For ext samples:
grep -R 'BOTO41' alignments/* > BDTO41.txt 3) Created Spreadsheet was x sample > locus-by-taxon-spreadsheet.xisx



11-124
UCEs: Pop. Gen. Processing X Sept. 2015
make sure.
https://github.com/mgharvey/segcap-pop installed
A Starting W/"Full" Set OF \$ 7 Samples +
A Starting W/"full" set of 87 Samples ** A Starting & Step 4, using CEN 131. fasta & from Brant's Pipeline (the most contigs matching to probes).
Ale la
BWA already installed on Supermikell—add to path. -use output from cleaned-reads-from-illumiprocessor - I split into 4 simultaneous jobs. - None failed - Output: 5-mapping /* .sq. sqi and * .sam > HOSE FILES
-None failed 1* (* San > 1 FIFE
Cutput. 5-mapping / sa. sai and to sum = 17000
- Output: 5-mapping / * bam > BIGFILES
5 Samtools already installed on Supermikell. - Output: 5-mapping / * bam > BIGFILES - After this step, I deleted * sam files.
6 Output: 6-picard/*-aln_CL.bam → BIG FILES
3 Output: 6-Picard/*-aln_RG.bam > B/G FILES
3 Output: 6-picard/*-aln_mD.bam > BIG FILES
9 Start here to get new SNP dataset for different sets of
9 Start here to get new SNP dataset for different sets of samples! - Can choose which samples (bam files) to include in merged bam file Output: 7-merge-bams / Pserratus, bam → MASSIVE FILE (30 GB)
merged bam file. - Oil of 37 source-brane (Peartratus barn > MASSIVE FILE (30 GR)
(10) (indexing)
(1) Output: popgen/CEN131.dict
(13) Output: 8-gatk/Pserratus. intervals
Ty Output: 8 mgatx/Pserratus_RI.bam
(5) Output: 8_gatk/ Pservatus_ Braw_SNPs.VCF
(16) Dutant: 8 path / Prematic SNPs annotated NCE
(7) Output: 8_gatt/ Psevratus_SNPs_ indels.vcf / on HPC
1 (8) A add to compand:
18 A add to command: disable_auto_index_creation_and_locking_when_reading_ rods
· Output: 8-gatk/Pserratus_SNB_NO_indels.vcf





For *BEAST Species Tree

[From dataset 600, 80%] most informative 20 Loci 20 Oct 2015

models of Evolution (BIC, imodelTest)

Locus	Model	# Informative Sites	Length (bp)	# Samples
uce-14553	JC	39	749	63
uce-123865	JC	31	725	64
uce-130414	JC	30	766	60
uce-84233	JC	27	665	64
uce-87295	K80	27	641	63
uce-122432	je	27/	758	66
uce-69626	1C /	26	540	64
uce-129912	K80	25	755	67
uce-515078	1C	25	713	61
uce-28629	JC	24	662	66
uce-35877	JC	24	843	65
uce-36937	JC /	24	696	63
uce-65890	16	24	668	65
uce-69811	нкү	24	679	60
uce-510176	/ F81	24	790	68
uce-69597 /	JC	23	546	65
uce-131740	K80	23	724	68
uce-3551ø	JC	22	550	64
uce-214216	F81	22	684	62
uce-311879	K80	22	682	62



From dataset 3-1K -> 80% -> NO HETS: 7

Locus	Model	# Informative Sites	Length (bp)	# Samples
uce-44009	JC	35	632	36
uce-113558	JC	33	693	39
uce-28703 \	F81	31	632	36
uce-6062	F81	31	670	38
uce-123865	F81	30	770	40
uce-125851X	HKY	29	1067	39
uce-130414	JC	29	780	36
uce-14553	JC	29	744	40
uce-87295	K80	29	681	40
uce-122432	JC	26	762	40
uce-224728	JC	26	726	38
uce-33880	HKY	26	661	38
uce-84233X	JC	26	695	40
uce-122334	K89/	25	626	37
uce-28629	sc	25	710	40
uce-69626	JC	25	554	37
uce-84091X	K80	25	504	36
uce-126661	F81	24	765	40
uce-321510	HKY	24	701	37
uce-35877	K80	24	859	43

x = removed because missing

oct.

"species

26 Oct 2015

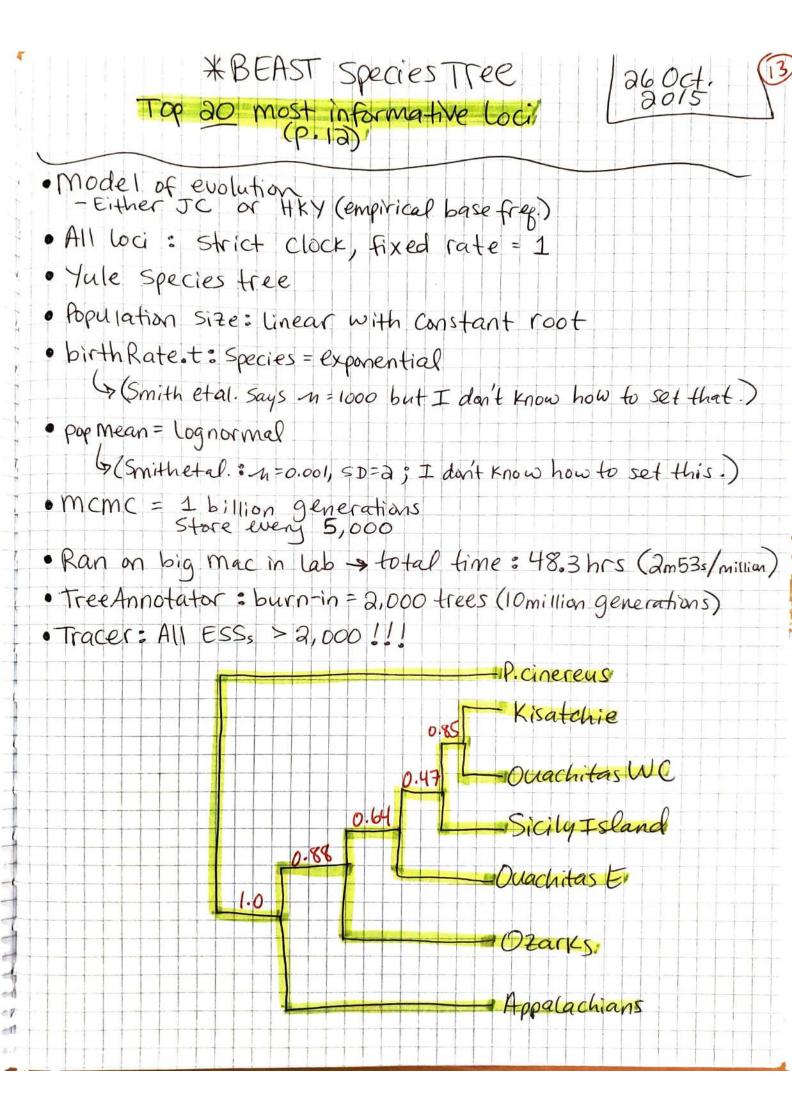
*BEAST Species Tree

Dataset M3-1K -> 80% -> NO HETS

• Deleted hets (p. 11) • Deleted loci that don't have at least 1 sample for each "species" (as designated for *Beast)

Loci 20 most Informative

4				
Locus	Model	# Informative Sites	Length (bp)	# Samples
uce-44009	JC	35	632	36
uce-113558	JC	33	693	39
uce-28703	F81	31	632	36
uce-6062	F81	31	670	38
uce-123865	F81	30	770	40
uce-130414	JC	29	780	36
uce-14553	JC	29	744	40
uce-87295	K80	29	681	40
uce-122432	JC	26	762	40
uce-224728	JC	26	726	38
uce-33880	HKY	26	661	38
uce-122334	K80	25	626	37
uce-28629	JC	25	710	40
uce-69626	JC	25	554	37
uce-126661	F81	24	765	40
uce-35877	K80	24	859	43
uce-69597	K80	24	609	41
uce-133907	HKY	23	687	39
uce-3378	HKY	23	646	37
uce-69811	HKY	23	711	42



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* BEAST Species Tree Top 50 most Informative Loci

Locus	Model	# Informative Sites	Length (bp)	# Samples
uce-44009	JC	35	632	36
uce-113558	JC	33	693	39
uce-28703	F81	31	632	36
uce-6062	F81	31	670	38
uce-123865	F81	30	770	40
uce-130414	JC	29	780	36
uce-14553	JC	29	744	40
uce-87295	K80	29	681	40
uce-122432	JC	26	762	40
uce-224728	JC	26	726	38
uce-33880	HKY	26	661	38
uce-122334	K80	25	626	37
uce-28629	JC	25	710	40
uce-69626	JC	25	554	37
uce-126661	F81	24	765	40
uce-35877	K80	24	859	43
uce-69597	K80	24	609	41
uce-133907	HKY	23	687	39
uce-3378	HKY	23	646	37
uce-69811	HKY	23	711	42
uce-113471	JC	22	722	40
uce-15409	F81	22	911	41
uce-311879	SYM	22	719	40
uce-36937	JC	22	731	39
uce-65890	JC	22	698	42
uce-129912	K80	21	775	43
uce-131753	JC	21	664	40
uce-14545	F81	21	675	36
uce-213502	HKY	21	808	40
uce-35605	JC	21	518	36
uce-35857	F81	21	716	39
uce-113603	JC	20	624	40
uce-123129	JC	20	618	37
uce-223133	F81	20	755	41
uce-24100	JC	20	585	40
uce-35516	K80	20	610	39
uce-69742	F81	20	683	43
uce-113350	HKY	19	635	45
ıce-116409	K80	19	761	41
ıce-119202	F81	19	653	41
ıce-21916	JC	19	714	43
ice-27190	JC	19	698	39
ice-113605	F81	18	686	41
ice-131740	K80	18	739	42
ice-14591	HKY	18	718	41
ice-22324	HKY	18	669	39
ice-225794	F81	18	703	38
ce-317628	K80	18	635	38
ce-3388	K80	18	732	42
ce-418072	K80	18	696	39

