AI/ML for Climate Workshop

International Livestock Research Institute (ILRI)

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ML-based Subseasonal & Seasonal Prediction

Now that the data is cleaned, checked for stationarity, and engineered, we can: 1. Split the data into training / validation / testing by time, 2. Fit ML models (e.g. Linear Regression, Random Forest, etc.), 3. Evaluate forecast skill using metrics like RMSE, correlation, ACC, 4. Inspect feature importance or coefficients for interpretability.





Click the Binder button above to launch an interactive Jupyter notebook for NumPy and Pandas climate data analysis!

```
# !pip install scikit-learn scipy matplotlib
import glob

import os, numpy as np, pandas as pd, matplotlib.pyplot as plt
from typing import Dict, List, Tuple
from scipy.stats import norm
from sklearn.pipeline import Pipeline
from sklearn.impute import SimpleImputer
from sklearn.preprocessing import StandardScaler
from sklearn.linear_model import LinearRegression, Ridge, Lasso, ElasticNet
from sklearn.model_selection import TimeSeriesSplit, GridSearchCV
from sklearn.metrics import mean_absolute_error, mean_squared_error
```

```
# Set working directory
os.chdir("C:\\Users\\yonas\\Documents\\ICPAC\\ea_seasonal_pred\\seasonal-ml-pred")

PROCESSED_DIR = "data/processed"

REPORT_FIGS = "reports/figures"

REPORT_TBLS = "reports/tables"
os.makedirs(PROCESSED_DIR, exist_ok=True)
os.makedirs(REPORT_FIGS, exist_ok=True)
os.makedirs(REPORT_TBLS, exist_ok=True)

CLIM_BASE = (1991, 2020)

RANDOM_STATE = 42
```

```
PROCESSED_DIR
```

```
'data/processed'
```

Load modeling tables & define feature sets

```
def load table(fname: str):
   p = os.path.join(PROCESSED_DIR, f"{fname}.parquet")
   if os.path.exists(p):
       df = pd.read_parquet(p)
   else:
       df = pd.read csv(os.path.join(PROCESSED DIR, f"{fname}.csv"), index col=0)
    # season year index as int
   if isinstance(df.index, pd.DatetimeIndex):
       df.index = df.index.year
   else:
       try: df.index = df.index.astype(int)
        except: df.index = pd.to datetime(df.index, errors="coerce").year
   df.index.name = "season year"
   return df.sort index()
OND tab = load table("uganda OND target features 1981 2024")
# MAM_tab = load_table("model_table_MAM")
```

```
OND_target_cols = ["OND_total_mm","OND_clim1991_2020_mm","OND_anom_mm","OND_anom_std"]
#MAM_target_cols = ["MAM_total_mm","MAM_clim1991_2020_mm","MAM_anom_mm","MAM_anom_std"]
OND_target_cols
```

```
['OND_total_mm', 'OND_clim1991_2020_mm', 'OND_anom_mm', 'OND_anom_std']

OND_X = [c for c in OND_tab.columns if c not in OND_target_cols]
#MAM_X = [c for c in MAM_tab.columns if c not in MAM_target_cols]
OND_X
```

```
['n12 JAS',
'n12_AS',
'n12_Sep',
'n3 JAS',
 'n3_AS',
'n3_Sep',
 'n34 JAS',
 'n34 AS',
'n34_Sep',
 'n4_JAS',
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 'meiv2_AS',
 'meiv2_Sep',
 'oni_JAS',
 'oni AS',
 'oni Sep',
 'pacwarmpool_JAS',
 'pacwarmpool_AS',
 'pacwarmpool Sep',
 'censo JAS',
 'censo AS',
 'censo_Sep',
 'dmi JAS',
 'dmi AS',
 'dmi Sep',
 'PERSIST_MJJ_anom_mm',
 'PERSIST_JJA_anom_mm',
 'PERSIST JAS anom mm']
```

```
print("OND:", OND_tab.shape, "features:", len(OND_X))
#print("MAM:", MAM_tab.shape, "features:", len(MAM_X))
```

```
OND: (44, 34) features: 30
```

Utilities (terciles, metrics, probabilities, reliability)

```
def tercile thresholds(series: pd.Series, base=CLIM BASE) -> Tuple[float,float]:
   mask = (series.index >= base[0]) & (series.index <= base[1])</pre>
   base vals = series[mask].dropna()
   return float(base_vals.quantile(1/3)), float(base_vals.quantile(2/3))
def metrics det(y true, y pred):
    # ensure 1D float arrays and drop NaNs/Infs
   y_true = np.asarray(y_true, dtype=float).ravel()
   y pred = np.asarray(y pred, dtype=float).ravel()
   m = np.isfinite(y true) & np.isfinite(y pred)
   y_true = y_true[m]
   y_pred = y_pred[m]
   if y_true.size == 0:
       return {"r": np.nan, "MAE": np.nan, "RMSE": np.nan,
               "MSESS vs clim": np.nan, "Bias": np.nan}
    # correlation (guard against zero variance)
    if y true.size > 1 and np.std(y true) > 0 and np.std(y pred) > 0:
       r = float(np.corrcoef(y true, y pred)[0, 1])
   else:
      r = np.nan
   mae = mean absolute error(y true, y pred)
    # Always compute RMSE compatibly (sqrt of MSE)
   rmse = float(np.sqrt(mse))
   mse clim = mean squared error(y true, np.zeros like(y true))
   msess = float(1 - (mse / mse clim)) if mse clim > 0 else np.nan
   bias = float(np.mean(y pred - y true))
    return {"r": r, "MAE": mae, "RMSE": rmse, "MSESS vs clim": msess, "Bias": bias}
def normal tercile probs(mu: float, sigma: float, q33: float, q67: float) -> Tuple[float]
   if not np.isfinite(sigma) or sigma <= 1e-8:
       # degenerate
       if mu < q33: return 1.0, 0.0, 0.0
       elif mu > q67: return 0.0, 0.0, 1.0
                    return 0.0, 1.0, 0.0
   p below = norm.cdf(q33, loc=mu, scale=sigma)
   p above = 1 - norm.cdf(q67, loc=mu, scale=sigma)
   p_near = 1 - p_below - p_above
    # numerical guard
   p near = max(0.0, min(1.0, p near))
   return float(p below), float(p near), float(p above)
def reliability curve(p: np.ndarray, y event: np.ndarray, nbins: int = 10):
    """Return bin centers, obs freq, counts for reliability diagram."""
   p = np.asarray(p); y = np.asarray(y event).astype(int)
```

```
mask = np.isfinite(p) & np.isfinite(y)
   p = p[mask]; y = y[mask]
    if len(p) < 3:
       return np.array([]), np.array([]), np.array([])
   bins = np.linspace(0,1,nbins+1)
    inds = np.digitize(p, bins) - 1
   obs = []; cnt = []; cen = []
    for b in range (nbins):
       m = inds == b
       if m.sum() > 0:
            cen.append(0.5*(bins[b]+bins[b+1]))
           cnt.append(m.sum())
           obs.append(y[m].mean())
    return np.array(cen), np.array(obs), np.array(cnt)
def plot reliability(p, y event, title, outfile):
    x, y, n = reliability_curve(p, y_event, nbins=10)
    if len(x) == 0:
       print("Not enough data for reliability.")
       return
    fig, ax = plt.subplots(figsize=(5,5))
    ax.plot([0,1],[0,1], "--", color="gray", lw=1, label="Perfect")
   ax.plot(x, y, marker="o")
    ax.set title(title); ax.set xlabel("Forecast probability"); ax.set ylabel("Observed
   ax.grid(alpha=0.3)
    fig.tight_layout(); fig.savefig(outfile, dpi=150); plt.show()
```

Model pipelines

```
def make model and grid(kind: str):
    if kind == "ols":
       pipe = Pipeline([
            ("imputer", SimpleImputer(strategy="median")),
            ("scaler", StandardScaler()),
            ("mdl", LinearRegression())
        grid = {} # no hyperparams
   elif kind == "ridge":
        pipe = Pipeline([
            ("imputer", SimpleImputer(strategy="median")),
            ("scaler", StandardScaler()),
            ("mdl", Ridge(random state=RANDOM STATE, max iter=10000))
        grid = {"mdl alpha": np.logspace(-4, 2, 15)}
    elif kind == "lasso":
       pipe = Pipeline([
            ("imputer", SimpleImputer(strategy="median")),
            ("scaler", StandardScaler()),
            ("mdl", Lasso(random state=RANDOM STATE, max iter=20000))
        ])
```

Data Splits [Fixed 70/15/15] and Evaluation

```
def fixed_splits_eval(table: pd.DataFrame, season: str, xcols: List[str], anomaly col:
                      years=(1981,2010,2017,2024), models=("ols","ridge","lasso","enet"
   years=(train start, train end, val end, test end)
    train = [start..train_end], val = [train_end+1..val_end], test = [val_end+1..test_e
   y0, tr_end, va_end, te_end = years
    # rows present
   years all = table.index.values
   train idx = [y for y in years all if y0 <= y <= tr end]</pre>
   val idx = [y for y in years all if tr end < y <= va end]</pre>
   test_idx = [y for y in years_all if va_end < y <= te end]</pre>
    # terciles from whole series (1991-2020)
   q33, q67 = tercile thresholds(table[anomaly col])
   res all = []
    for kind in models:
       pipe, grid = make model and grid(kind)
        # inner CV on TRAIN only
       X tr = table.loc[train idx, xcols].values
       y tr = table.loc[train idx, anomaly col].values
       tss = TimeSeriesSplit(n splits=min(5, max(2, len(train idx)//5)))
       gscv = GridSearchCV(pipe, param grid=grid, cv=tss, scoring="neg mean squared er
       gscv.fit(X tr, y tr)
        # sigma from TRAIN residuals of best model
       y tr hat = gscv.predict(X tr)
       sigma tr = float(np.std(y tr - y tr hat, ddof=1))
       def _predict(idx):
           X = table.loc[idx, xcols].values
           yh = gscv.predict(X)
           clim = table.loc[idx, clim col].values
           tot = yh + clim
            # tercile probs from Normal(mu=yh, sigma=sigma tr)
```

```
p b, p n, p a = [], [], []
    for mu in yh:
        b,n,a = normal tercile probs(mu, sigma tr, q33, q67)
        p_b.append(b); p_n.append(n); p_a.append(a)
    return pd.DataFrame({
        "season year": idx,
        "y pred anom mm": yh,
        "y pred total mm": tot,
        "p_below": p_b, "p_near": p_n, "p_above": p_a
    }).set index("season year")
# predictions
pred_tr = _predict(train_idx)
pred_va = _predict(val_idx)
pred te = predict(test idx)
# assemble with obs
def attach obs(df pred, idx):
   out = df pred.copy()
   out["y obs anom mm"] = table.loc[idx, anomaly col].values
   out["y obs total mm"] = table.loc[idx, clim col].values + out["y obs anom m
    return out
tr = attach obs(pred tr, train idx)
va = attach obs(pred va, val idx)
te = attach_obs(pred_te, test_idx)
det_tr = metrics_det(tr["y_obs_anom_mm"], tr["y_pred_anom_mm"])
det_va = metrics_det(va["y_obs_anom_mm"], va["y_pred_anom_mm"])
det_te = metrics_det(te["y_obs_anom_mm"], te["y_pred_anom_mm"])
res all.append((kind, gscv.best params , sigma tr, det tr, det va, det te))
# save predictions
base = f"{season} {kind} split pred"
tr.to csv(os.path.join(PROCESSED DIR, f"{base} train.csv"))
va.to csv(os.path.join(PROCESSED DIR, f"{base} val.csv"))
te.to csv(os.path.join(PROCESSED DIR, f"{base} test.csv"))
# reliability on test (above/below)
y cls te = pd.Series(np.where(te["y obs anom mm"] > q67, 1, np.where(te["y obs
plot_reliability(te["p_above"].values, (y_cls_te==1).values.astype(int),
                 f"{season} {kind} - Reliability (Above normal, TEST)",
                 os.path.join(REPORT FIGS, f"{season} {kind} reliability above
plot reliability(te["p below"].values, (y cls te==-1).values.astype(int),
                 f"{season} {kind} - Reliability (Below normal, TEST)",
                 os.path.join(REPORT FIGS, f"{season} {kind} reliability below
# residuals by decade (test)
te["resid mm"] = te["y obs anom mm"] - te["y pred anom mm"]
d = (pd.DataFrame({"resid": te["resid mm"]})
     .assign(decade=lambda x: (pd.Index(x.index).astype(int)//10)*10)
     .groupby("decade")["resid"].agg(["mean", "std", "count"]))
```

```
OND_fixed = fixed_splits_eval(
    OND_tab, "OND_X, "OND_anom_mm", "OND_clim1991_2020_mm",
    years=(1981, 2010, 2017, 2024),
    models=("ols","ridge","lasso","enet")
)
OND_fixed
```

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lasso 0.580779 3.787217e+01 4.703375e+01
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enet 5.005152e+01 {'mdl alpha': 10.0, 'mdl l1 ratio': 0.1}
```

Rolling-origin hindcast (1981–2024) for each model

```
pipe, grid = make model and grid(kind)
preds = []
for i in range(len(years)):
   y = int(years[i])
   tr_years = years[:i]
   if len(tr years) < min train:</pre>
        continue
   train = table.loc[tr years]
    test = table.loc[[y]]
   X tr = train[xcols].values
   y_tr = train[anomaly_col].values
   X te = test[xcols].values
    # inner CV on training
    tss = TimeSeriesSplit(n splits=min(5, max(2, len(tr years)//5)))
    gscv = GridSearchCV(pipe, param grid=grid, cv=tss, scoring="neg mean square
    gscv.fit(X tr, y tr)
    # sigma from training residuals
    y tr hat = gscv.predict(X tr)
    sigma_tr = float(np.std(y_tr - y_tr_hat, ddof=1))
   # predict year y
    mu = float(gscv.predict(X_te)[0])
    clim val = float(test[clim col].iloc[0])
    p_b, p_n, p_a = normal_tercile_probs(mu, sigma_tr, q33, q67)
   preds.append({
        "season year": y,
        "y obs anom mm": float(test[anomaly col].iloc[0]),
        "y pred anom mm": mu,
        "y obs total mm": float(test[anomaly col].iloc[0] + clim val),
        "y pred total mm": float(mu + clim val),
        "p below": p b, "p near": p n, "p above": p a,
        "sigma train": sigma tr
    })
hc = pd.DataFrame(preds).set index("season year")
det = metrics det(hc["y obs anom mm"], hc["y pred anom mm"])
# save
out csv = os.path.join(PROCESSED DIR, f"hindcast {season} {kind}.csv")
hc.to csv(out csv)
# reliability
y cls = pd.Series(np.where(hc["y obs anom mm"] > q67, 1, np.where(hc["y obs anom
plot reliability(hc["p above"].values, (y cls==1).values.astype(int),
                 f"{season} {kind} - Reliability (Above normal, HINDCAST)",
                 os.path.join(REPORT_FIGS, f"{season}_{kind}_reliability_above_
```

```
plot reliability(hc["p below"].values, (y cls==-1).values.astype(int),
                     f"{season} {kind} - Reliability (Below normal, HINDCAST)",
                     os.path.join(REPORT FIGS, f"{season} {kind} reliability below
    # residuals by decade
   hc["resid_mm"] = hc["y_obs_anom_mm"] - hc["y_pred_anom_mm"]
    d = (pd.DataFrame({"resid": hc["resid mm"]})
         .assign(decade=lambda x: (pd.Index(x.index).astype(int)//10)*10)
         .groupby("decade")["resid"].agg(["mean", "std", "count"]))
    d.to csv(os.path.join(REPORT TBLS, f"{season} {kind} residuals by decade HC.csv
    results[kind] = {"hindcast": hc, "metrics": det}
# write a summary
rows = []
for k, v in results.items():
   rows.append({"model": k, **v["metrics"]})
summary = pd.DataFrame(rows).set index("model")
summary.to csv(os.path.join(REPORT TBLS, f"{season} hindcast metrics.csv"))
return results, summary
```

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```

Present percent anomalies & export "final" tables

```
def add percent anomaly(df: pd.DataFrame, clim series: pd.Series) -> pd.DataFrame:
    # clim series should be indexed by season year
    out = df.copy()
    c = clim_series.reindex(out.index).astype(float)
    out["y obs pct"] = 100.0 * (out["y obs total mm"] - c) / c
    out["y pred pct"] = 100.0 * (out["y pred total mm"] - c) / c
    return out
# Add to hindcasts and rewrite
OND_clim = OND_tab["OND clim1991 2020 mm"]
#MAM clim = MAM tab["MAM clim1991 2020 mm"]
for model, bundle in OND_hc.items():
    hc = add percent anomaly(bundle["hindcast"], OND clim)
    hc.to csv(os.path.join(PROCESSED DIR, f"hindcast OND {model} with percent.csv"))
# for model, bundle in MAM hc.items():
    hc = add percent anomaly(bundle["hindcast"], MAM clim)
     hc.to csv(os.path.join(PROCESSED DIR, f"hindcast MAM {model} with percent.csv"))
```

Regime-conditioned skill (ENSO × IOD)

```
# --- Robust column picker (case-insensitive) ---
def pick feature(table: pd.DataFrame, base: str, suffixes: list[str]) -> pd.Series:
   Find a column like f"{base} {suffix}" ignoring case. Try suffixes in order.
   Fallback: any column containing base (case-insensitive). Raises if none found.
    cols = list(table.columns)
   lower map = {c.lower(): c for c in cols}
    for suf in suffixes:
       key = f"{base} {suf}".lower()
       if key in lower map:
            return table[lower map[key]]
    # fallback: any column containing base
    candidates = [c for c in cols if base.lower() in c.lower()]
    if candidates:
       return table[candidates[0]]
    raise KeyError(f"No feature found for base='{base}' with suffixes {suffixes}. "
                   f"Available columns sample: {cols[:10]}")
def regime mask(season: str, table: pd.DataFrame, thr n34: float = 0.7, thr dmi: float
   Build categorical ENSO/IOD regimes for the given season using lead-safe features.
    Returns two Series (enso, iod) indexed by season year.
```

```
if season.upper() == "OND":
       # use months available by end-Sep
        n34_ser = _pick_feature(table, "n34", ["jas", "as", "sep"])
       dmi_ser = _pick_feature(table, "dmi", ["jas", "as", "sep"])
    else:
        # use months available by end-Feb (for MAM)
        n34 ser = pick feature(table, "n34", ["ndj", "dj", "feb"])
        dmi ser = pick feature(table, "dmi", ["ndj", "dj", "feb"])
    if verbose:
        print(f"[{season}] ENSO from column: {n34 ser.name} | IOD from column: {dmi_ser
    def cat(s: pd.Series, thr pos: float, thr neg: float | None = None) -> pd.Series:
       if thr neg is None: thr neg = -thr pos
       out = pd.Series(index=s.index, dtype="object")
        out[s >= thr pos] = "pos"
       out[s <= thr neg] = "neg"
       out[(s < thr pos) & (s > thr neg)] = "neu"
    enso = cat(n34 \text{ ser.astype(float)}, \text{ thr } n34)
    iod = cat(dmi_ser.astype(float), thr_dmi)
    enso.name, iod.name = "enso", "iod"
    return enso, iod
def regime_skill(hc_df: pd.DataFrame, season: str, table: pd.DataFrame, out_prefix: str
                 min_count: int = 5) -> pd.DataFrame:
    Join hindcast with ENSO/IOD regimes and compute deterministic metrics per (ENSO \times I
    Saves CSV and returns the table.
    enso, iod = regime mask(season, table, verbose=True)
    # Align regimes to hindcast years
    enso = enso.reindex(hc df.index)
    iod = iod.reindex(hc df.index)
    df = hc df.join(enso).join(iod)
    rows = []
    for e in ["pos", "neu", "neg"]:
        for i in ["pos", "neu", "neg"]:
            m = (df["enso"] == e) & (df["iod"] == i)
            if int(m.sum()) >= min count:
                det = metrics_det(df.loc[m, "y_obs_anom_mm"], df.loc[m, "y_pred_anom_mm"]
                rows.append({"ENSO": e, "IOD": i, "N": int(m.sum()), **det})
    out = pd.DataFrame(rows)
    out path = os.path.join(REPORT TBLS, f"{out prefix} regime skill.csv")
    out.to csv(out path, index=False)
    print(f"Wrote {out path} | rows={len(out)}")
    return out
```

```
for model, bundle in OND_hc.items():
    regime_skill(bundle["hindcast"], "OND", OND_tab, out_prefix=f"OND_{model}")
```

```
[OND] ENSO from column: n34_JAS | IOD from column: dmi_JAS
Wrote reports/tables\OND_ols_regime_skill.csv | rows=2
[OND] ENSO from column: n34_JAS | IOD from column: dmi_JAS
Wrote reports/tables\OND_ridge_regime_skill.csv | rows=2
[OND] ENSO from column: n34_JAS | IOD from column: dmi_JAS
Wrote reports/tables\OND_lasso_regime_skill.csv | rows=2
[OND] ENSO from column: n34_JAS | IOD from column: dmi_JAS
Wrote reports/tables\OND_enet_regime_skill.csv | rows=2
```

```
PROCESSED DIR = "data/processed"
REPORT FIGS = "reports/figures"
os.makedirs(REPORT FIGS, exist ok=True)
def load_split_preds(season: str, model: str):
    Load train/val/test CSVs written by fixed splits eval for a given season/model.
    Returns a dict with keys 'TRAIN', 'VAL', 'TEST' -> DataFrames indexed by season year.
    11 11 11
    out = {}
    for split in ("train", "val", "test"):
        path = os.path.join(PROCESSED DIR, f"{season} {model} split pred {split}.csv")
        if not os.path.exists(path):
            raise FileNotFoundError(f"Missing file: {path}\n"
                                     "Run fixed splits eval(...) first for this season/m
        df = pd.read csv(path, index col=0)
        # ensure season year index is int
        if not np.issubdtype(df.index.dtype, np.integer):
            df.index = pd.Index(df.index).astype(int)
        df.index.name = "season year"
        # add labels
        df["model"] = model
        df["split"] = split.upper()
        out[split.upper()] = df
    return out
# example: OND + ridge
ridge ond = load split preds("OND", "ridge")
list(ridge ond.keys()), ridge ond["TRAIN"].head(2)
```

```
(['TRAIN', 'VAL', 'TEST'],

y_pred_anom_mm y_pred_total_mm p_below p_near p_above \
```

Combine splits for a model & save one tidy table

```
def combine_splits(preds_dict: dict) -> pd.DataFrame:
    """Concat TRAIN/VAL/TEST into one tidy table."""
    combo = pd.concat([preds_dict[k] for k in ("TRAIN","VAL","TEST")], axis=0)
    combo = combo.sort_index()
    return combo

ridge_ond_all = combine_splits(ridge_ond)
ridge_ond_all.to_csv(os.path.join(PROCESSED_DIR, "OND_ridge_actual_vs_pred_split_all.cs
ridge_ond_all.tail(3)
```

Output:

```
y_pred_anom_mm y_pred_total_mm p_below p_near p_above \
season year
                            270.743764 0.717554 0.200921 0.081525
              -57.660536
2022
2023
              19.243077
                            347.647377 0.155449 0.267621 0.576930
              -26.120629
                           302.283671 0.469683 0.301645 0.228672
2024
          y_obs_anom_mm y_obs_total_mm model split
season year
2022
             10.965271 339.369571 ridge TEST
             64.327760
                          392.732060 ridge TEST
2023
              45.866913
2024
                          374.271213 ridge TEST
```

Load all models at once for one season

```
def load_all_models_for_season(season: str, models=("ols","ridge","lasso","enet")) -> p
    frames = []
    for m in models:
        try:
            frames.append(combine_splits(load_split_preds(season, m)))
        except FileNotFoundError as e:
            print(f"[skip] {m}: {e}")
    if not frames:
```

```
raise RuntimeError(f"No split prediction files found for season={season}.")
all_df = pd.concat(frames, axis=0).sort_index()
out_path = os.path.join(PROCESSED_DIR, f"{season}_ALLMODELS_actual_vs_pred_split_al
all_df.to_csv(out_path)
print("WROTE", out_path)
return all_df

OND_all_models = load_all_models_for_season("OND", models=("ols","ridge","lasso","enet"
OND_all_models.head(2)
```

```
WROTE data/processed\OND_ALLMODELS_actual_vs_pred_split_all.csv
           y pred anom mm y pred total mm p below p near p above \
season year
1981
               -77.088240
                             251.316060 1.000000 0.000000 0.000000
1981
                             288.195155 0.585125 0.264381 0.150494
               -40.209145
           y obs anom mm y obs total mm model split
season_year
1981
               -77.08824
                            251.31606 ols TRAIN
1981
               -77.08824
                            251.31606 ridge TRAIN
```

```
#from sklearn.metrics import mean absolute error, mean squared error
def metrics_det(y_true, y_pred):
    # robust across sklearn versions; drop NaNs
   y true = np.asarray(y true, dtype=float).ravel()
   y pred = np.asarray(y pred, dtype=float).ravel()
   m = np.isfinite(y true) & np.isfinite(y pred)
   y_true, y_pred = y_true[m], y_pred[m]
   if y true.size == 0:
       return {"r": np.nan, "MAE": np.nan, "RMSE": np.nan, "MSESS vs clim": np.nan, "E
   r = float(np.corrcoef(y true, y pred)[0,1]) if np.std(y true)>0 and np.std(y pred)>
   mae = mean_absolute_error(y_true, y_pred)
   mse = mean_squared_error(y_true, y_pred)
   rmse = float(np.sqrt(mse))
   mse clim = mean squared error(y true, np.zeros like(y true))
   msess = float(1 - (mse / mse clim)) if mse clim > 0 else np.nan
   bias = float(np.mean(y pred - y true))
   return {"r": r, "MAE": mae, "RMSE": rmse, "MSESS vs clim": msess, "Bias": bias}
def metrics by split(df: pd.DataFrame) -> pd.DataFrame:
   rows = []
    for (model, split), g in df.groupby(["model", "split"]):
       det = metrics det(g["y obs anom mm"], g["y pred anom mm"])
       rows.append({"model": model, "split": split, **det})
   out = pd.DataFrame(rows).sort values(["model","split"])
    return out
```

```
metrics_by_split(OND_all_models)
```

```
model split r MAE RMSE MSESS_vs_clim \
   enet TEST 0.287542 7.875917e+01 1.013172e+02 -0.284691
    enet TRAIN 0.474145 3.998338e+01 4.921026e+01
                                                    0.293958
1
2
    enet VAL 0.754151 5.481972e+01 6.798039e+01
                                                    0.048228
  lasso TEST 0.430264 7.409601e+01 9.206353e+01
3
                                                   -0.060737
  lasso TRAIN 0.580779 3.787217e+01 4.703375e+01
4
                                                    0.355031
5
  lasso VAL 0.832918 5.560184e+01 6.903257e+01
                                                    0.018537
    ols TEST -0.233901 2.394361e+02 2.617482e+02
6
                                                   -7.574325
7
    ols TRAIN 1.000000 2.030331e-12 2.717091e-12
                                                    1.000000
    ols VAL -0.271100 2.576294e+02 3.287164e+02
                                                  -21.254015
8
   ridge TEST 0.323365 7.852993e+01 1.006899e+02
9
                                                   -0.268834
                                                    0.339794
10 ridge TRAIN 0.508066 3.933139e+01 4.758609e+01
11 ridge VAL 0.817224 5.338130e+01 6.572210e+01
                                                    0.110413
          Bias
0 -7.057590e+01
1
   3.789561e-15
2 -3.453847e+01
3 -6.025199e+01
  3.079019e-15
4
5 -3.215121e+01
   1.925193e+01
7
  4.386121e-14
8 -2.168966e+02
9 -7.071166e+01
10 3.552714e-15
11 -3.463705e+01
```

```
def plot_actual_vs_pred_lines(df: pd.DataFrame, season: str, model: str, save=True):
    """
    Line plots (anomaly mm and total mm) by split.
    """
    fig, axes = plt.subplots(3, 2, figsize=(14, 10), sharex=False)
    splits = ["TRAIN","VAL","TEST"]
    for i, sp in enumerate(splits):
        g = df[(df["model"]==model) & (df["split"]==sp)]
        if g.empty: continue
        g = g.sort_index()
        # left: anomalies
        ax = axes[i,0]
        ax.plot(g.index, g["y_obs_anom_mm"], label="Obs anom (mm)", linewidth=2)
        ax.plot(g.index, g["y_pred_anom_mm"], label="Pred anom (mm)")
        ax.set_title(f"{sp} - anomaly (mm)")
        ax.grid(alpha=0.3); ax.legend(loc="best")
        # right: totals
```

```
ax = axes[i,1]
        ax.plot(g.index, g["y obs total mm"], label="Obs total (mm)", linewidth=2)
        ax.plot(g.index, g["y_pred_total_mm"], label="Pred total (mm)")
        ax.set title(f"{sp} - total (mm)")
        ax.grid(alpha=0.3); ax.legend(loc="best")
    fig.suptitle(f"{season} - {model}: Actual vs Predicted (by split)", y=1.02, fontsiz
    fig.tight layout()
    if save:
        out = os.path.join(REPORT_FIGS, f"{season}_{model}_actual_vs_pred_lines.png")
        fig.savefig(out, dpi=150)
        print("Saved", out)
    plt.show()
def plot pred vs obs scatter(df: pd.DataFrame, season: str, model: str, save=True):
    Scatter of predicted vs observed (anomaly mm) by split with 1:1 line.
    splits = ["TRAIN","VAL","TEST"]
    fig, axes = plt.subplots(1, 3, figsize=(15, 4), sharex=True, sharey=True)
    for i, sp in enumerate(splits):
        ax = axes[i]
        g = df[(df["model"]==model) & (df["split"]==sp)]
        if q.empty:
            ax.set axis off(); continue
        x = g["y obs anom mm"].values
        y = g["y pred anom mm"].values
        ax.scatter(x, y, s=35, alpha=0.9)
        \lim = \text{np.nanmax}(\text{np.abs}(\text{np.concatenate}([x,y]))) \text{ if } \text{len}(x)>0 \text{ else } 1.0
        lim = max(1.0, lim)
        ax.plot([-lim, lim], [-lim, lim], "--", color="gray", lw=1)
        det = metrics det(x, y)
        ax.set title(f''(sp)\nr=\{det['r']:.2f\}, RMSE=\{det['RMSE']:.1f\}'')
        ax.set xlabel("Observed anom (mm)")
        if i==0: ax.set ylabel("Predicted anom (mm)")
        ax.grid(alpha=0.3)
    fig.suptitle(f"\{season\} - \{model\}\}: Predicted vs Observed (anomaly mm)", y=1.02, for
    fig.tight layout()
    if save:
        out = os.path.join(REPORT FIGS, f"{season} {model} pred vs obs scatter.png")
        fig.savefig(out, dpi=150)
        print("Saved", out)
    plt.show()
```

```
plot_actual_vs_pred_lines(OND_all_models, "OND", "ridge")
plot_pred_vs_obs_scatter(OND_all_models, "OND", "ridge")
```

```
Saved reports/figures\OND_ridge_actual_vs_pred_lines.png
<Figure size 1400x1000 with 6 Axes>
```

```
Saved reports/figures\OND_ridge_pred_vs_obs_scatter.png 
<Figure size 1500x400 with 3 Axes>
```

```
# OND: per-model, per-split deterministic metrics
OND_split_scores = metrics_by_split(OND_all_models)
OND_split_scores.to_csv(os.path.join(PROCESSED_DIR, "OND_split_metrics_by_model.csv"),
OND_split_scores
```

```
model split r
                                     RMSE MSESS_vs_clim \
                              MAE
    enet TEST 0.287542 7.875917e+01 1.013172e+02 -0.284691
0
1
   enet TRAIN 0.474145 3.998338e+01 4.921026e+01
                                                   0.293958
   enet VAL 0.754151 5.481972e+01 6.798039e+01
2
                                                    0.048228
3
   lasso TEST 0.430264 7.409601e+01 9.206353e+01
                                                   -0.060737
4
  lasso TRAIN 0.580779 3.787217e+01 4.703375e+01
                                                   0.355031
  lasso VAL 0.832918 5.560184e+01 6.903257e+01
                                                    0.018537
5
   ols TEST -0.233901 2.394361e+02 2.617482e+02
6
                                                   -7.574325
7
   ols TRAIN 1.000000 2.030331e-12 2.717091e-12
                                                   1.000000
    ols VAL -0.271100 2.576294e+02 3.287164e+02
                                                  -21.254015
8
9
 ridge TEST 0.323365 7.852993e+01 1.006899e+02
                                                   -0.268834
                                                   0.339794
10 ridge TRAIN 0.508066 3.933139e+01 4.758609e+01
11 ridge VAL 0.817224 5.338130e+01 6.572210e+01
                                                   0.110413
          Bias
0 -7.057590e+01
1 3.789561e-15
  -3.453847e+01
3 -6.025199e+01
  3.079019e-15
5 -3.215121e+01
6 1.925193e+01
  4.386121e-14
8 -2.168966e+02
9 -7.071166e+01
10 3.552714e-15
11 -3.463705e+01
```

OLS

```
plot_actual_vs_pred_lines(OND_all_models, "OND", "ols")
plot_pred_vs_obs_scatter(OND_all_models, "OND", "ols")
```

```
Saved reports/figures\OND_ols_actual_vs_pred_lines.png

<Figure size 1400x1000 with 6 Axes>
Saved reports/figures\OND_ols_pred_vs_obs_scatter.png

<Figure size 1500x400 with 3 Axes>
```

LASSO

```
plot_actual_vs_pred_lines(OND_all_models, "OND", "lasso")
plot_pred_vs_obs_scatter(OND_all_models, "OND", "lasso")
```

```
Saved reports/figures\OND_lasso_actual_vs_pred_lines.png

<Figure size 1400x1000 with 6 Axes>
Saved reports/figures\OND_lasso_pred_vs_obs_scatter.png

<Figure size 1500x400 with 3 Axes>
```

```
from sklearn.tree import DecisionTreeRegressor
from sklearn.ensemble import ExtraTreesRegressor
```

```
def make model and grid(kind: str):
   if kind == "ols":
       pipe = Pipeline([
            ("imputer", SimpleImputer(strategy="median")),
            ("scaler", StandardScaler()),
            ("mdl", LinearRegression())
       ])
       grid = \{\}
   elif kind == "ridge":
       pipe = Pipeline([
            ("imputer", SimpleImputer(strategy="median")),
            ("scaler", StandardScaler()),
            ("mdl", Ridge(random state=RANDOM STATE, max iter=10000))
        grid = {"mdl alpha": np.logspace(-4, 2, 15)}
    elif kind == "lasso":
       pipe = Pipeline([
            ("imputer", SimpleImputer(strategy="median")),
            ("scaler", StandardScaler()),
            ("mdl", Lasso(random state=RANDOM STATE, max iter=20000))
        1)
        grid = {"mdl alpha": np.logspace(-4, 1, 15)}
```

```
elif kind == "enet":
   pipe = Pipeline([
        ("imputer", SimpleImputer(strategy="median")),
        ("scaler", StandardScaler()),
        ("mdl", ElasticNet(random state=RANDOM STATE, max iter=20000))
   grid = {"mdl alpha": np.logspace(-4, 1, 12), "mdl l1 ratio": [0.1,0.3,0.5,0.7]
# NEW: Decision Tree
elif kind == "dt":
   pipe = Pipeline([
        ("imputer", SimpleImputer(strategy="median")),
       # trees don't need scaling
        ("mdl", DecisionTreeRegressor(random state=RANDOM STATE))
   ])
    # Keep grids modest (dataset is small ~ 40-45 rows)
   grid = {
       "mdl max depth": [None, 2, 3, 4, 5, 6, 8],
        "mdl min samples leaf": [1, 2, 3, 4, 5],
       "mdl min samples split": [2, 3, 4, 5, 8, 10],
       "mdl max features": [None, "sqrt", 0.5, 0.7, 0.9],
    }
# ☑ NEW: Extra Trees (Extremely Randomized Trees)
elif kind == "etr":
   pipe = Pipeline([
        ("imputer", SimpleImputer(strategy="median")),
        ("mdl", ExtraTreesRegressor(
            n estimators=300, # tuned via grid
           random state=RANDOM STATE,
           n jobs=-1
       ))
   1)
   grid = {
       "mdl n estimators": [200, 300, 600],
       "mdl max depth": [None, 3, 5, 7, 9],
       "mdl min samples leaf": [1, 2, 3, 4],
       "mdl max features": [None, "sqrt", 0.5, 0.7, 0.9],
       "mdl bootstrap": [False], # keep False for ExtraTrees (default)
else:
   raise ValueError("kind must be one of: 'ols','ridge','lasso','enet','dt','etr''
return pipe, grid
```

```
# --- after gscv.fit(...) in fixed_splits_eval ---
# Save feature importances for tree models (if available)
if hasattr(gscv.best_estimator_["mdl"], "feature_importances_"):
    fi = gscv.best_estimator_["mdl"].feature_importances_
    fi_df = pd.DataFrame({"feature": xcols, "importance": fi}).sort_values("importance"
    fi_out = os.path.join(PROCESSED_DIR, f"{season}_{kind}_feature_importance_TRAIN.csv_fi_df.to_csv(fi_out, index=False)
```

```
OND_fixed_trees = fixed_splits_eval(
    OND_tab, "OND_X, "OND_anom_mm", "OND_clim1991_2020_mm",
    years=(1981, 2010, 2017, 2024),
    models=("dt","etr")
)
OND_fixed_trees
```

```
<Figure size 500x500 with 1 Axes>
        tr_r tr_MAE tr_RMSE tr_MSESS_vs_clim tr_Bias \
model
dt 0.699535 29.679992 39.033475
                                        0.555784 2.102022e-15
etr 0.824603 25.129560 35.272920
                                        0.637254 -1.184238e-15
         va_r va_MAE va_RMSE va_MSESS_vs_clim va_Bias te_r \setminus
model
   0.312199 54.889004 76.345292 -0.200412 -36.061098 0.366697
dt
etr 0.834176 53.410729 64.335964
                                        0.147541 -37.274056 0.209038
       te_MAE te_RMSE te_MSESS_vs_clim te_Bias sigma_train \
model
     70.911446 80.553813
                               0.187909 -35.529870 39.700763
     76.941558 98.734576
                              -0.220032 -65.243104 35.875919
                                       best params
model
     {'mdl max depth': 2, 'mdl max features': 0.7...
     {'mdl bootstrap': False, 'mdl max depth': No...
```

```
OND_hc_trees, OND_hc_trees_summary = hindcast_regression(
    OND_tab, "OND_X, "OND_anom_mm", "OND_clim1991_2020_mm",
    models=("dt","etr")
)
OND_hc_trees_summary
```

```
dt 0.169420 68.755847 82.704148 -0.407317 -32.129012
etr 0.312495 53.561331 68.913537 0.022883 -13.286361
```

```
PROCESSED DIR = "data/processed"
def load split preds(season: str, model: str):
   Load TRAIN/VAL/TEST CSVs written by fixed splits eval(...) for a given season+model
   Returns dict with keys 'TRAIN', 'VAL', 'TEST' -> DataFrames indexed by season year.
   out = {}
    for split in ("train", "val", "test"):
        path = os.path.join(PROCESSED DIR, f"{season} {model} split pred {split}.csv")
       if not os.path.exists(path):
           raise FileNotFoundError(f"Missing file: {path}. Did you run fixed_splits_ev
        df = pd.read csv(path, index col=0)
        if not np.issubdtype(df.index.dtype, np.integer):
            df.index = pd.Index(df.index).astype(int)
        df.index.name = "season year"
       df["model"] = model
       df["split"] = split.upper()
       out[split.upper()] = df
    return out
def combine splits(preds dict: dict) -> pd.DataFrame:
   """Concat TRAIN/VAL/TEST into one tidy table."""
   combo = pd.concat([preds dict[k] for k in ("TRAIN", "VAL", "TEST")], axis=0)
    return combo.sort index()
def load_all_models_for_season(season: str, models=("ols", "ridge", "lasso", "enet", "dt", "
   """Load and stack split predictions for several models of one season."""
    frames = []
    for m in models:
       trv:
           frames.append(combine_splits(load_split_preds(season, m)))
       except FileNotFoundError as e:
           print(f"[skip] {season}/{m}: {e}")
    if not frames:
        raise RuntimeError(f"No split prediction files found for season={season} and mo
    all df = pd.concat(frames, axis=0).sort index()
   out path = os.path.join(PROCESSED DIR, f"{season} ALLMODELS actual vs pred split al
   all df.to csv(out path)
   print("WROTE", out path)
    return all df
def metrics det quick(y true, y pred):
   y_true = np.asarray(y_true, float); y_pred = np.asarray(y_pred, float)
   m = np.isfinite(y true) & np.isfinite(y pred)
   y true, y pred = y true[m], y pred[m]
    r = np.corrcoef(y true, y pred)[0,1] if y true.size>1 and np.std(y true)>0 and np.s
```

rmse = float(np.sqrt(np.mean((y_true - y_pred)**2))) if y_true.size else np.nan

```
return r, rmse
def plot actual vs pred lines(df: pd.DataFrame, season: str, model: str, save=True):
    fig, axes = plt.subplots(3, 2, figsize=(14, 10), sharex=False)
    splits = ["TRAIN","VAL","TEST"]
    for i, sp in enumerate(splits):
       g = df[(df["model"]==model) & (df["split"]==sp)].sort index()
        if q.empty:
           for j in (0,1): axes[i,j].set_axis_off()
           continue
        ax = axes[i,0]
        ax.plot(g.index, g["y obs anom mm"], label="Obs anom (mm)", lw=2)
        ax.plot(g.index, g["y_pred anom mm"], label="Pred anom (mm)")
       ax.set title(f"{sp} - anomaly (mm)"); ax.grid(alpha=0.3); ax.legend(loc="best")
       ax = axes[i,1]
        ax.plot(g.index, g["y obs total mm"], label="Obs total (mm)", lw=2)
       ax.plot(g.index, g["y_pred_total_mm"], label="Pred total (mm)")
       ax.set title(f"{sp} - total (mm)"); ax.grid(alpha=0.3); ax.legend(loc="best")
    fig.suptitle(f"{season} - {model}: Actual vs Predicted (by split)", y=1.02, fontsiz
    fig.tight layout()
    if save:
        out = os.path.join(PROCESSED_DIR, f"{season}_{model}_actual_vs_pred_lines.png")
       fig.savefig(out, dpi=150); print("Saved", out)
    plt.show()
def plot_pred_vs_obs_scatter(df: pd.DataFrame, season: str, model: str, save=True):
    splits = ["TRAIN","VAL","TEST"]
    fig, axes = plt.subplots(1, 3, figsize=(15, 4), sharex=True, sharey=True)
    for i, sp in enumerate(splits):
       ax = axes[i]
       g = df[(df["model"]==model) & (df["split"]==sp)]
        if g.empty: ax.set axis off(); continue
       x = g["y obs anom mm"].values; y = g["y pred anom mm"].values
        ax.scatter(x, y, s=35, alpha=0.9)
        lim = np.nanmax(np.abs(np.concatenate([x,y]))) if len(x)>0 else 1.0
       lim = max(1.0, lim)
       ax.plot([-lim, lim], [-lim, lim], "--", color="gray", lw=1)
       r, rmse = metrics det quick(x, y)
       ax.set title(f"\{sp\}\nr=\{r:.2f\}, RMSE=\{rmse:.1f\}")
       ax.set xlabel("Observed anom (mm)")
       if i==0: ax.set ylabel("Predicted anom (mm)")
        ax.grid(alpha=0.3)
    fig.suptitle(f"{season} - {model}: Predicted vs Observed (anomaly mm)", y=1.02, for
    fig.tight layout()
    if save:
       out = os.path.join(PROCESSED DIR, f"{season} {model} pred vs obs scatter.png")
       fig.savefig(out, dpi=150); print("Saved", out)
    plt.show()
```

```
# If you used load_all_models_for_season earlier, you can append tree models too
OND_all_models_trees = load_all_models_for_season("OND", models=("dt","etr"))
```

```
plot_actual_vs_pred_lines(OND_all_models_trees, "OND", "etr")
plot_pred_vs_obs_scatter(OND_all_models_trees, "OND", "etr")
```

```
WROTE data/processed\OND_ALLMODELS_actual_vs_pred_split_all.csv
Saved data/processed\OND_etr_actual_vs_pred_lines.png

<Figure size 1400x1000 with 6 Axes>
Saved data/processed\OND_etr_pred_vs_obs_scatter.png

<Figure size 1500x400 with 3 Axes>
```

```
PROCESSED DIR = "data/processed"
os.makedirs(PROCESSED DIR, exist ok=True)
# --- helpers (safe to re-run) ---
def load split preds(season: str, model: str):
    out = {}
    for split in ("train", "val", "test"):
        path = os.path.join(PROCESSED DIR, f"{season} {model} split pred {split}.csv")
        if not os.path.exists(path):
           raise FileNotFoundError(f"Missing file: {path}")
        df = pd.read_csv(path, index_col=0)
        if not np.issubdtype(df.index.dtype, np.integer):
            df.index = pd.Index(df.index).astype(int)
        df.index.name = "season_year"
        df["model"] = model
        df["split"] = split.upper()
       out[split.upper()] = df
    return out
def combine splits(preds dict: dict) -> pd.DataFrame:
    return pd.concat([preds dict[k] for k in ("TRAIN", "VAL", "TEST")], axis=0).sort inde
def load all models for season(season: str, models=None) -> pd.DataFrame:
    # Auto-detect models if not provided
    if models is None:
        files = glob.glob(os.path.join(PROCESSED DIR, f"{season} * split pred train.csv
        models = sorted({os.path.basename(p).split(" ")[1] for p in files})
       print(f"Detected models for {season}:", models)
    frames = []
    for m in models:
       try:
           frames.append(combine splits(load split preds(season, m)))
        except FileNotFoundError as e:
           print(f"[skip] {season}/{m}: {e}")
    if not frames:
       raise RuntimeError(f"No split prediction files found for season={season}.")
    all df = pd.concat(frames, axis=0).sort index()
    out_path = os.path.join(PROCESSED_DIR, f"{season}_ALLMODELS_actual_vs_pred_split_al
```

```
all df.to csv(out path)
   print("WROTE", out path)
    return all df
# Deterministic metrics (robust to NaNs + older sklearn)
def _metrics_det(y_true, y_pred):
   y true = np.asarray(y true, float).ravel()
   y pred = np.asarray(y pred, float).ravel()
   m = np.isfinite(y_true) & np.isfinite(y_pred)
   y_true, y_pred = y_true[m], y_pred[m]
    if y true.size == 0:
        return {"r": np.nan, "MAE": np.nan, "RMSE": np.nan,
                "MSESS vs clim": np.nan, "Bias": np.nan}
   r = float(np.corrcoef(y_true, y_pred)[0,1]) if (np.std(y_true)>0 and np.std(y_pred)
   mae = mean absolute error(y true, y pred)
   mse = mean squared error(y true, y pred) # squared=True default
   rmse = float(np.sqrt(mse))
   mse clim = mean squared error(y true, np.zeros like(y true))
   msess = float(1 - (mse / mse clim)) if mse clim > 0 else np.nan
   bias = float(np.mean(y pred - y true))
    return {"r": r, "MAE": mae, "RMSE": rmse, "MSESS vs clim": msess, "Bias": bias}
def metrics total(y true total, y pred total):
   y true = np.asarray(y true total, float).ravel()
   y_pred = np.asarray(y_pred_total, float).ravel()
   m = np.isfinite(y_true) & np.isfinite(y_pred)
   y_true, y_pred = y_true[m], y_pred[m]
   if y true.size == 0:
        return {"r total": np.nan, "MAE total": np.nan, "RMSE total": np.nan, "Bias tot
   r = float(np.corrcoef(y_true, y_pred)[0,1]) if (np.std(y_true)>0 and np.std(y_pred)
   mae = mean_absolute_error(y_true, y_pred)
   mse = mean squared error(y true, y pred)
   rmse = float(np.sqrt(mse))
   bias = float(np.mean(y pred - y true))
   return {"r total": r, "MAE total": mae, "RMSE total": rmse, "Bias total": bias}
def metrics by split(df: pd.DataFrame) -> pd.DataFrame:
    rows = []
    for (model, split), g in df.groupby(["model", "split"]):
        a = _metrics_det(g["y_obs_anom_mm"], g["y_pred_anom_mm"])
       t = metrics total(g["y obs total mm"], g["y pred total mm"])
        rows.append({"model": model, "split": split, **a, **t})
    return pd.DataFrame(rows).sort_values(["model","split"]).reset_index(drop=True)
```

```
# --- Build OND_all_models and compute metrics ---
OND_all_models = load_all_models_for_season("OND")
```

```
Detected models for OND: ['dt', 'enet', 'etr', 'lasso', 'ols', 'ridge']
WROTE data/processed\OND_ALLMODELS_actual_vs_pred_split_all.csv
```

```
OND_split_scores = metrics_by_split(OND_all_models)
OND_split_scores.to_csv(os.path.join(PROCESSED_DIR, "OND_split_metrics_by_model.csv"),
OND_split_scores
```

```
model split
                                            RMSE MSESS vs clim \
                                 MAE
    dt TEST 0.366697 7.091145e+01 8.055381e+01 0.187909
0
     dt TRAIN 0.699535 2.967999e+01 3.903348e+01
                                                      0.555784
      dt VAL 0.312199 5.488900e+01 7.634529e+01
2
                                                      -0.200412
3
    enet TEST 0.287542 7.875917e+01 1.013172e+02
                                                      -0.284691
    enet TRAIN 0.474145 3.998338e+01 4.921026e+01
                                                      0.293958
4
5
    enet VAL 0.754151 5.481972e+01 6.798039e+01
                                                      0.048228
    etr TEST 0.209038 7.694156e+01 9.873458e+01
                                                      -0.220032
    etr TRAIN 0.824603 2.512956e+01 3.527292e+01
7
                                                      0.637254
    etr VAL 0.834176 5.341073e+01 6.433596e+01
8
                                                      0.147541
9
  lasso TEST 0.430264 7.409601e+01 9.206353e+01
                                                      -0.060737
10 lasso TRAIN 0.580779 3.787217e+01 4.703375e+01
                                                      0.355031
11 lasso VAL 0.832918 5.560184e+01 6.903257e+01
                                                      0.018537
12 ols TEST -0.233901 2.394361e+02 2.617482e+02
                                                      -7.574325
13
    ols TRAIN 1.000000 2.030331e-12 2.717091e-12
                                                      1.000000
   ols VAL -0.271100 2.576294e+02 3.287164e+02
                                                    -21.254015
14
15 ridge TEST 0.323365 7.852993e+01 1.006899e+02
                                                      -0.268834
16 ridge TRAIN 0.508066 3.933139e+01 4.758609e+01
                                                      0.339794
17 ridge VAL 0.817224 5.338130e+01 6.572210e+01
                                                      0.110413
          Bias r total MAE total RMSE total Bias total
0 -3.552987e+01 0.366697 7.091145e+01 8.055381e+01 -3.552987e+01
  -4.440892e-16 0.699535 2.967999e+01 3.903348e+01 5.684342e-15
2 -3.606110e+01 0.312199 5.488900e+01 7.634529e+01 -3.606110e+01
  -7.057590e+01 0.287542 7.875917e+01 1.013172e+02 -7.057590e+01
  3.789561e-15 0.474145 3.998338e+01 4.921026e+01 -1.515825e-14
5 -3.453847e+01 0.754151 5.481972e+01 6.798039e+01 -3.453847e+01
  -6.524310e+01 0.209038 7.694156e+01 9.873458e+01 -6.524310e+01
7 -2.250052e-15 0.824603 2.512956e+01 3.527292e+01 -1.136868e-14
8 -3.727406e+01 0.834176 5.341073e+01 6.433596e+01 -3.727406e+01
9 -6.025199e+01 0.430264 7.409601e+01 9.206353e+01 -6.025199e+01
10 3.079019e-15 0.580779 3.787217e+01 4.703375e+01 -1.326346e-14
11 -3.215121e+01 0.832918 5.560184e+01 6.903257e+01 -3.215121e+01
12 1.925193e+01 -0.233901 2.394361e+02 2.617482e+02 1.925193e+01
13 4.386121e-14 1.000000 2.028363e-12 2.711581e-12 3.126388e-14
14 -2.168966e+02 -0.271100 2.576294e+02 3.287164e+02 -2.168966e+02
15 -7.071166e+01 0.323365 7.852993e+01 1.006899e+02 -7.071166e+01
16 3.552714e-15 0.508066 3.933139e+01 4.758609e+01 -1.326346e-14
17 -3.463705e+01 0.817224 5.338130e+01 6.572210e+01 -3.463705e+01
```

Gradient Boosting (sklearn GBM), XGBoost, and LightGBM

```
from xgboost import XGBRegressor
from lightgbm import LGBMRegressor
from sklearn.ensemble import GradientBoostingRegressor

print("XGBoost available:", XGBRegressor, "| LightGBM available:", LGBMRegressor)
```

Output:

```
XGBoost available: <class 'xgboost.sklearn.XGBRegressor'> | LightGBM available: <class
```

Extend make_model_and_grid with gbr, xgb, lgbm

```
def make_model_and_grid(kind: str):
    # --- existing cases (ols, ridge, lasso, enet, dt, etr) should already be here ---
    # (keep your previous code above; only the new blocks are shown below)
    if kind == "gbr": # sklearn GradientBoostingRegressor
       pipe = Pipeline([
            ("imputer", SimpleImputer(strategy="median")),
            ("mdl", GradientBoostingRegressor(random state=RANDOM STATE))
       ])
       grid = {
           "mdl n estimators": [100, 300, 600],
           "mdl learning rate": [0.03, 0.05, 0.1],
           "mdl max depth": [2, 3, 4],
           "mdl subsample": [0.6, 0.8, 1.0],
           "mdl max features": [None, "sqrt", 0.5],
       return pipe, grid
   if kind == "xgb":
       if not XGBRegressor:
           raise ImportError ("XGBoost not available. Run: pip install xqboost")
       pipe = Pipeline([
            ("imputer", SimpleImputer(strategy="median")),
            ("mdl", XGBRegressor(
                objective="reg:squarederror",
                eval metric="rmse",
                n jobs=-1,
```

```
random state=RANDOM STATE,
           tree method="hist" # fast & stable
       ))
   ])
   grid = {
       "mdl__n_estimators": [200, 400, 800],
       "mdl learning rate": [0.03, 0.05, 0.1],
       "mdl max depth": [2, 3, 4],
       "mdl__subsample": [0.6, 0.8, 1.0],
       "mdl colsample bytree": [0.6, 0.8, 1.0],
       "mdl min child weight": [1, 3, 5],
       # optional regularization (kept modest for small n):
       "mdl reg lambda": [1.0, 5.0, 10.0],
   return pipe, grid
if kind == "lgbm":
   if not LGBMRegressor:
       raise ImportError("LightGBM not available. Run: pip install lightgbm")
   pipe = Pipeline([
        ("imputer", SimpleImputer(strategy="median")),
        ("mdl", LGBMRegressor(
           objective="regression",
           metric="rmse",
           n jobs=-1,
           random state=RANDOM STATE,
           force col wise=True # safer default for small data
       ))
   ])
   grid = {
       "mdl__n_estimators": [200, 400, 800],
       "mdl learning rate": [0.03, 0.05, 0.1],
       "mdl max depth": [-1, 3, 5], # -1 = no limit
       "mdl__num_leaves": [15, 31, 63],
                                          # interacts with depth
       "mdl subsample": [0.6, 0.8, 1.0],
       "mdl colsample bytree": [0.6, 0.8, 1.0],
       "mdl min child samples": [5, 10, 20],
       "mdl reg lambda": [0.0, 5.0, 10.0],
   return pipe, grid
# fall-through to your previous cases:
return _previous_make_model_and_grid(kind) # <- if you split the function; else ke
```

```
HAS_XGB = XGBRegressor
HAS_LGBM = LGBMRegressor
```

```
# OND
OND_fixed_boost = fixed_splits_eval(
    OND_tab, "OND", OND_X, "OND_anom_mm", "OND_clim1991_2020_mm",
    years=(1981, 2010, 2017, 2024),
```

```
models=tuple([m for m, ok in [("gbr", True), ("xgb", HAS_XGB), ("lgbm", HAS_LGBM)]
)
OND_fixed_boost
```

```
<Figure size 500x500 with 1 Axes>
<Figure size 500x500 with 1 Axes>
```

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